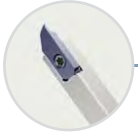
EDITION 2025 / 2027

APPLITEC
CUTTING TOOLS

GENERAL CATALOGUE

PERFORMANCE | PRECISION | RIGIDITY



TOP-Line 1
TOP-Watch 2
ONE-Line 3
ONE-Watch 4
PRO-Line 5
ECO-Line 6
TRIO-Line 7
TURN-Line 8
ISO-Line 9
EVOCUT-Line 10
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TOP-Line

APPLITEC
CUTTING TOOLS

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Paramètres de coupe indicatifs PCD
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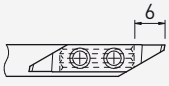
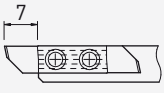
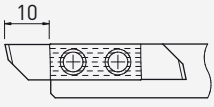
710 / 720
Pour machines à cames
Für kurvengesteuerte Maschinen
For cam driven machines


> 1.22

730 / 740
Main series
Small type


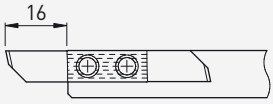
> 1.34

750 / 760
Main series
Large type


> 1.90

770 / 780

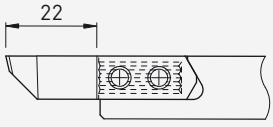
Tronçonnage de grande capacité
Abstechen für grössere Durchmesser
High capacity parting off



> **1.164**

7050 / 7060

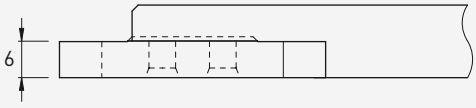
Tronçonnage de grande capacité
Abstechen für grössere Durchmesser
High capacity parting



> **1.176**

W750 / W760

Outils avec plaquettes ébauches larges pour profilage
Werkzeuge mit breiten WSP-Rohlingen für Profilschleifen
Tools with wide blank inserts for profiling



> **1.184**

Porte-outils spécifiques
Spezifische Werkzeughalter
Specific tool holders

> **1.192**

Pièces de rechange et accessoires
Ersatzteile und Zubehöre
Spare parts and accessories

> **1.214**

Codification
Kodifizierung
Coding guide

7	6	4	X	–	2.0	–	R20	–	HTA

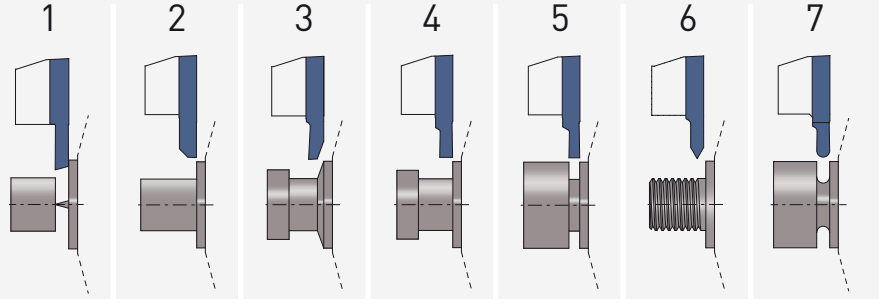
Dimension
Abmessung
Dimension

Rayon
Radius
Radius

Nuance
Sorte
Grade

Géométrie de coupe / Brise-copeaux / Particularités
Schneidgeometrie / Spanbrecher / Sondereigenschaften
Cutting geometry / Chip breaker / Special features

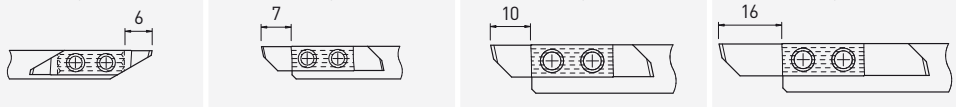
Géométrie d'usinage
Bearbeitungsgeometrie
Machining geometry



Gamme de produit définit la compatibilité des plaquettes avec le porte-outils
Produktserie definiert die Kompatibilität der Wendeschneidplatten mit dem Werkzeughalter
Product series defines the compatibility between inserts and toolholders

L = 1, 3, 5, 7 (chiffre impair / ungerade Zahl / uneven number)
R = 2, 4, 6, 8 (chiffre pair / gerade Zahl / even number)

L 710	R 720	L 730	R 740	L 750	R 760	L 770	R 780



pour machines à cames
für kurvengesteuerte Maschinen
for cam driven machines

main series
small type

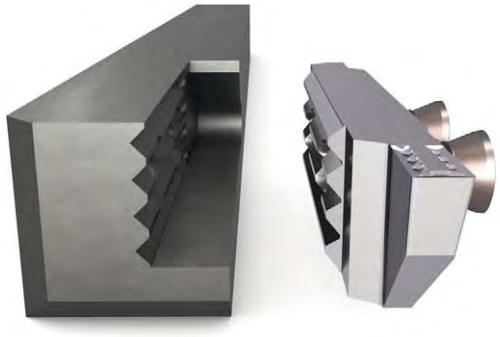
main series
large type

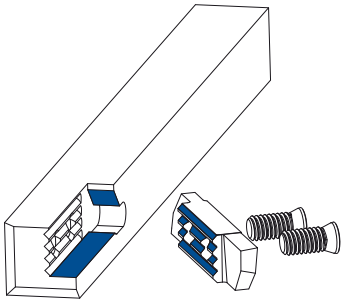
tronçonnage uniquement
nur für abstechen
only for parting off

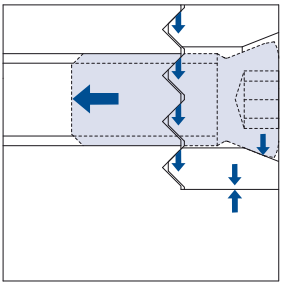
Applitec série 700 Système de serrage à denture décalée avec 2 vis de fixation
Applitec 700 Serie Spannsystem mit 2 Schrauben und verschobener Verzahnung
Applitec 700 series Shifted teeth clamping system with 2 screws

100 % rigid !

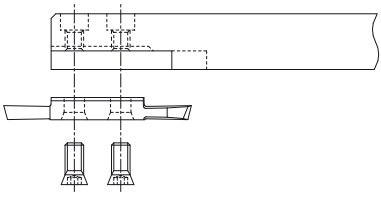
Système de serrage Applitec à denture décalée
Applitec-Spannsystem mit verschobener Verzahnung
Applitec clamping system with shifted teeth

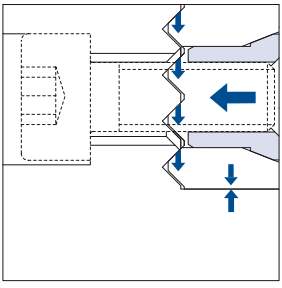






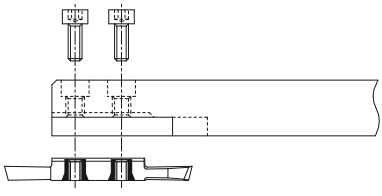
Serrage standard (A)
Standard Spannsystem (A)
Standard clamping system (A)





Serrage type B*
Spannsystem Typ B*
Clamping system type B*

ajouter -B après le numéro d'article
-B nach der Artikelreferenz hinzufügen
add -B after the article number



Changement de la plaquette possible dans la machine, sans démontage du porte-outil
WSP-Austauschmöglichkeit in der Maschine ohne Halterausbau
The insert can be changed in the machine without removing the tool holder

* = sur demande / auf Anfrage / on request

★ 1er choix / 1. Wahl / 1st choice

☆ Recommandé / Empfohlen / Recommended

Pour pièces fragiles de très petits diamètres / Für empfindliche und sehr kleine Werkstücke / For fragile and very small work pieces

Géométries de coupe / Spanformgeometrien / Cutting geometries		Arête de coupe / Schneidkante / Cutting edge	Series 710/720	730/740	750/760	770/780	7050/7060	P Acier de décolletage / Automatenstahl / Free-cutting steel	P Acier allié / Stahl / Alloyed steel	M Acier inoxydable / Rostfreistahl / Stainless steel
	0°		●	●	●	●	●	★	✓	✓
	0° PCD			●	●					
	X4°			●	●			★	★	★
	XF			●	●	●	●	☆	★	★
	X12°			●	●					☆
	X25°			●	●					☆
	U			●	●	●		☆	☆	☆
	ZU8				●			★	★	★
	X840				●					
	RAS				●			★	★	☆

Conseils d'utilisation
Anwendungsempfehlungen
Application recommendations

Tronçonnage
Abstechen
Parting off

N					S	
Aluminium	Laiton, bronze Messing & Bronze Brass & bronze	Laiton sans plomb (CuZn42, ...) Bleifreies Messing Lead-free brass	Ecobrass	Cuivre Kupfer Copper	Titane Titan Titanium	Conseils et avantages Tipps und Vorteile Tips and benefits
✓	★		✓	✓	✓	Permet un réaffûtage aisé Erlaubt einfaches Nachschleifen Allows easy regrinding
☆	☆	☆	★	☆	☆	Durée de vie nettement prolongée Deutlich verlängerte Lebensdauer Significantly extended tool life
✓		☆		✓	✓	Réduit l'effort de coupe, réaffûtable Reduziert Schneidkräfte, nachschleifbar Decreases cutting force, allows regrinding
				☆		Pour matières difficiles (pointe renforcée) Für schwierige Werkstoffe (verstärkte Spitze) For difficult materials (reinforced tip)
★		☆		★	★	Très bonne maîtrise du copeau Sehr gute Spankontrolle Very efficient chip control
★				☆	☆	Pour matières collantes faisant de très longs copeaux Für klebrige Werkstoffe mit sehr langen Spänen For sticky materials producing (very) long chips
						Pour resserer le copeau, réaffûtage aisé Für Spanverschmälerung, einfaches Nachschleifen To narrow the chips, easy regrinding
☆ <5 % Si	☆				☆	Géométrie laser avec une très bonne maîtrise du copeau Sehr gute Spankontrolle Very efficient chip control
☆ <5 % Si		★			☆	Pour l'usinage des matières sans plomb Bearbeitung bleifreier Werkstoffe Machining lead-free materials
					☆	Positif à 7°, réduit l'effort de coupe, réaffûtable Reduziert Schneidkräfte, nachschleifbar 7° positive, Reduces cutting force, allows regrinding

★ 1er choix / 1. Wahl / 1st choice

☆ Recommandé / Empfohlen / Recommended

Pour pièces fragiles de très petits diamètres / Für empfindliche und sehr kleine Werkstücke / For fragile and very small work pieces

Géométries de coupe / Spanformgeometrien / Cutting geometries		Arête de coupe / Schneidkante / Cutting edge	Series 710/720	Series 730/740	Series 750/760	P – Acier de décolletage / Automatenstahl / Free-cutting steel	P – Acier allié / Stahl / Alloyed steel	M – Acier inoxydable / Rostfreistahl / Stainless steel
	0°		•	•	•	★	✓	✓
	0° PCD			•				
	PX			•	•	★	☆	☆
	X			•	•	★	★	★
	X5-EP				•	★	★	☆
	X10-EP				•	☆	☆	★
	VS			•	•	☆		☆
	ZX10			•	•	★	★	★
	ZX17			•				☆
	ZX25				•			☆
	ZXB10				•	★	★	★
	ZXT				•	★	★	★
	ZF-X			•	•			
	VX-800				•	★	★	☆
	VUX				•	☆	☆	★

N					S	
Aluminium	Laiton, bronze Messing & Bronze Brass & bronze	Laiton sans plomb (CuZn42, ...) Bleifreies Messing Lead-free brass	Ecobrass	Cuivre Kupfer Copper	Titane Titan Titanium	Conseils et avantages Tipps und Vorteile Tips and benefits
✓	✓		✓	✓	✓	Permet un réaffûtage aisé Erlaubt einfaches Nachschleifen Allows easy regrinding
☆	☆	☆	★	☆	☆	Durée de vie nettement prolongée Deutlich verlängerte Lebensdauer Significantly extended tool life
✓		☆		☆	☆	Très bonne maîtrise du copeau (7°) Sehr gute Spankontrolle Very efficient chip control
★		☆		★	★	Très bonne maîtrise du copeau Sehr gute Spankontrolle Very efficient chip control
						Très bonne maîtrise du copeau Sehr gute Spankontrolle Very efficient chip control
☆					☆	Très bonne maîtrise du copeau Sehr gute Spankontrolle Very efficient chip control
✓				✓	✓	Brise-copeau pour usinage léger en finition Spanbrecher für leichte Schlichtbearbeitung Chip-breaker for light finishing operation
☆ <5 % Si	☆	☆			☆	Très bonne maîtrise du copeau Sehr gute Spankontrolle Very efficient chip control
★ <5 % Si				★	★	Très bonne maîtrise du copeau Sehr gute Spankontrolle Very efficient chip control
★ <5 % Si				★	★	Très bonne maîtrise du copeau Sehr gute Spankontrolle Very efficient chip control
☆ <5 % Si	☆	☆			☆	Très bonne maîtrise du copeau Sehr gute Spankontrolle Very efficient chip control
☆ <5 % Si	☆	☆			☆	Très bonne maîtrise du copeau Sehr gute Spankontrolle Very efficient chip control
		★				Pour l'usinage des matières sans plomb Bearbeitung bleifreier Werkstoffe Machining lead-free materials
☆				☆	☆	Pour l'usinage des matières sans plomb Bearbeitung bleifreier Werkstoffe Machining lead-free materials
☆				☆	★	Roule-copeau bidirectionnel Bidirektionaler Spanroller Bi-directional chip-breaker

★ 1er choix / 1. Wahl / 1st choice

☆ Recommandé / Empfohlen / Recommended

Pour pièces fragiles de très petits diamètres / Für empfindliche und sehr kleine Werkstücke / For fragile and very small work pieces

Géométries de coupe / Spanformgeometrien / Cutting geometries		Arête de coupe / Schneidkante / Cutting edge	Series 710/720	Series 730/740	Series 750/760	P — Acier de décolletage / Automatenstahl / Free-cutting steel	P — Acier allié / Stahl / Alloyed steel	M — Acier inoxydable / Rostfreistahl / Stainless steel
	0°		•	•	•	★	✓	✓
	0° PCD			•				
	X			•	•	★	★	★
	VX-8°			•	•	★	★	☆
	VX-800			•	•	★	★	☆
	VX-15°			•	•	☆		☆
	VUX				•	☆	☆	★
	ZX10			•	•	★	★	★
	ZXB				•	★	★	★
	ZXT			•	•	★	★	★

Conseils d'utilisation
Anwendungsempfehlungen
Application recommendations

Tournage arrière
Rückwärts drehen
Back turning

N					S	
Aluminium	Laiton, bronze Messing & Bronze Brass & bronze	Laiton sans plomb (CuZn42, ...) Bleifreies Messing Lead-free brass	Ecobrass	Cuivre Kupfer Copper	Titane Titan Titanium	Conseils et avantages Tipps und Vorteile Tips and benefits
✓	✓		✓	✓	✓	Permet un réaffûtage aisé Erlaubt einfaches Nachschleifen Allows easy regrinding
☆	☆	☆	★	☆	☆	Durée de vie nettement prolongée Deutlich verlängerte Lebensdauer Significantly extended tool life
★		☆		★	★	Très bonne maîtrise du copeau Sehr gute Spankontrolle Very efficient chip control
☆		☆		☆	☆	Très bonne maîtrise du copeau Sehr gute Spankontrolle Very efficient chip control
☆				☆	☆	Très bonne maîtrise du copeau Sehr gute Spankontrolle Very efficient chip control
★				★	★	Très bonne maîtrise du copeau Sehr gute Spankontrolle Very efficient chip control
☆				☆	★	Roule-copeau bidirectionnel Bidirektionaler Spanroller Bi-directional chip breaker
☆ <5 % Si	☆	☆			☆	Très bonne maîtrise du copeau Sehr gute Spankontrolle Very efficient chip control
☆ <5 % Si	☆	☆			☆	Très bonne maîtrise du copeau Sehr gute Spankontrolle Very efficient chip control
☆ <5 % Si	☆	☆			☆	Très bonne maîtrise du copeau Sehr gute Spankontrolle Very efficient chip control

µK20

TiAlN

K20

µK20 + revêtement PVD
µK20 + PVD Beschichtung
µK20 + PVD coating

TF — F — **M** — E

P ★★★★★
M ★★★★★
N ★★★★☆
S ★★★★☆

- excellente nuance universelle
- 1er choix pour l'usinage des aciers, aciers inoxydables et alliages de titane
- très bonne résistance à la température

- beste Universalsorte
- erste Wahl von Stahl, rostfreiem Stahl und Titanlegierungen
- sehr gute Warmfestigkeit

- best universal grade
- first choice for steel, stainless steel and titanium alloys machining
- very good heat resistance

µK20

TiAlX

K20

µK20 + revêtement PVD
µK20 + PVD Beschichtung
µK20 + PVD coating

TF — **F** — M — E

P ★★★★☆
M ★★★★★
N ★☆☆☆☆
S ★★★★★

- nuance très résistante à l'usure et à la température, recommandée pour l'usinage des matières suivantes : inox 304, 316L, 317L, 904, Phynox
- aciers alliés contenant : chrome nickel, vanadium, molybdène, ...

- sehr verschleissfeste und temperaturbeständige Sorte. Für folgende Materialien empfohlen : Inox 304, 316L, 317L, 904, Phynox
- legierter Stahl enthaltend : Chrom-Nickel, Vanadium, Molybdän, ...

- very wear and high temperature resistant grade. Recommended for following material : Inox 304, 316L, 317L, 904, Phynox
- alloy steel containing : Chrome-nickel, Vanadium, Molybdenum, ...

µK20

TiN

K20

µK20 + revêtement PVD
µK20 + PVD Beschichtung
µK20 + PVD coating

TF — F — **M** — E

P ★★★★☆
M ★★★★☆
N ★★★☆☆
S ☆☆☆☆☆

- nuance pour l'usinage des matières peu résistantes qui créent des arêtes rapportées
- très faible coefficient de frottement
- à éviter pour l'usinage du titane

- Sorte für die Bearbeitung von weichen Werkstoffen mit Tendenz zur Bildung von Aufbauschneiden
- sehr geringer Reibwert
- für die Bearbeitung von Titan nicht geeignet

- grade for the machining of low resistance materials which causes edge build-up
- very low friction ratio
- not suitable for titanium machining

µK20

ST

K20

µK20 + revêtement PVD
µK20 + PVD Beschichtung
µK20 + PVD coating

TF F **M** E

P ★★★★★
M ★★★★★
N ★★★★★
S ★★★★★

- nuance résistante à la température, destinée à l'usinage des matières suivantes : inox, titane allié, alliages à base de nickel, chrome cobalt, les matières avec une dureté supérieure à > 50 HRC
- verschleissfeste und temperaturbeständige Sorte. Für folgende Materialien empfohlen : Inox, legiertes Titan, Nickellegierungen, Chrom-Kobalt, materialien härter als > 50 HRC
- wear and temperature-resistant grade. Recommended for following materials : Inox, titanium alloys, nickel-based alloys, chrome-cobalt, and materials harder than > 50 HRC

µK20

N

K20

Non revêtu
Unbeschichtet
Uncoated

P ★☆☆☆☆
M ★☆☆☆☆
N ★★★☆☆
S ★★★☆☆

- supporte les coupes interrompues et autres conditions d'usinage défavorables
- für unterbrochene Schnitte und andere ungünstige Bearbeitungsbedingungen geeignet
- suitable for interrupted cut and other unfavourable machining conditions

µK10 - µK20

KCR

K10 - K20

µK10 - µK20 + revêtement PVD
µK10 - µK20 + PVD Beschichtung
µK10 - µK20 + PVD coating

TF F **M** E

P ★★★★★
M ★★★★★
N ★★★★★
S ★★★★☆

- nuance spécifique aux matériaux non ferreux tels que cuivre, laiton, laiton sans plomb, bronze, maillechort
- réduit le collage. Alternative aux revêtements DLC pour certains domaines d'applications

- spezifische Sorte, für Nichteisenmetalle wie Kupfer, Messing, bleifreies Messing, Bronze, Neusilber
- Verringerung des Klebens. Alternative zu DLC-Beschichtungen in gewissen Einsatzbereichen

- specific grade for non-ferrous materials such as copper, brass, lead-free brass, bronze and nickel silver
- reduces sticking. Alternative to DLC coatings for certain applications

µK10 - µK20

KCRF

K10 - K20

µK10 - µK20 + revêtement PVD
µK10 - µK20 + PVD Beschichtung
µK10 - µK20 + PVD coating

TF **F** M E

P ★★★★★
M ★★★★★
N ★★★★★
S ★★★★☆

- nuance spécifique aux matériaux non ferreux tels que cuivre, laiton, laiton sans plomb, bronze, maillechort
- réduit le collage. Alternative aux revêtements DLC pour certains domaines d'applications

- spezifische Sorte, für Nichteisenmetalle wie Kupfer, Messing, bleifreies Messing, Bronze, Neusilber
- Verringerung des Klebens. Alternative zu DLC-Beschichtungen in gewissen Einsatzbereichen

- specific grade for non-ferrous materials such as copper, brass, lead-free brass, bronze and nickel silver
- reduces sticking. Alternative to DLC coatings for certain applications

µK10 - µK20

KST

K10 - K20

µK10 - µK20 + revêtement PVD
µK10 - µK20 + PVD Beschichtung
µK10 - µK20 + PVD coating

TF — F — **M** — E

P	★★★★★
M	★★★★★
N	★★★★☆
S	★★★★★

- nuance présentant d'excellentes propriétés de résistance à l'usure et ténacité, destinée à l'usinage des matières suivantes : inox, titane allié, alliages à base de nickel, chrome cobalt, les matières avec une dureté supérieure à > 50 HRC

- verschleissfeste und zähe Sorte. Für folgende Materialienempfohlen : Inox, legiertes Titan, Nickellegierungen, Chrom-Kobalt, materialien härter als > 50 HRC

- grade with excellent wear resistance and toughness properties. Recommended for following materials : Inox, titanium alloys, nickel-based alloys, chrome-cobalt, and materials harder than > 50 HRC

µK10 - µK20

KN

K10 - K20

Non revêtu
Unbeschichtet
Uncoated

P	★☆☆☆☆
M	★☆☆☆☆
N	★★★☆☆
S	★★★☆☆

- nuance micro-grain, alliant une très bonne résistance à l'usure et une bonne ténacité.
- recommandé pour l'usinage des matières ne nécessitant aucun revêtement, par exemple le titane pur.

- verschleißfeste Feinkornsorte, unbeschichtet, die eine sehr gute Verschleißfestigkeit mit guter Zähigkeit kombiniert.
- empfohlen für die Bearbeitung von Werkstoffen, die keine Beschichtung erfordern, wie zum Beispiel reines Titan.

- micro-grain grade, combining excellent wear resistance with good toughness.
- recommended for machining materials that do not require any coating, such as pure titanium.

µK10

HTA

K10

µK10 + revêtement PVD
µK10 + PVD Beschichtung
µK10 + PVD coating

TF F **M** E

P ★★★★★
M ★★★★★
N ★★★★☆
S ★★★★☆

- nuance très résistante à l'usure
- pour l'usinage en finition dans des conditions favorables des aciers, aciers inoxydables et alliages de titane

- sehr verschleissfeste Sorte
- für die Feinbearbeitung von Stahl, rostfreiem Stahl und Titanlegierungen bei guten Bearbeitungsbedingungen

- very wear resistant grade
- for light machining of steel, stainless steel and titanium alloys under favourable machining conditions

µK10

HTAX

K10

µK10 + revêtement PVD
µK10 + PVD Beschichtung
µK10 + PVD coating

TF **F** M E

P ★★★★☆
M ★★★★★
N ★☆☆☆☆
S ★★★★★

- nuance très résistante à l'usure et à la température, pour l'usinage en finition avec faible avance de petites pièces. Recommandée pour l'usinage des matières suivantes : inox 304, 316L, 317L, 904, Phynox

- sehr verschleissfeste und temperaturbeständige Sorte, für Feinbearbeitung von kleinen Teilen mit geringer Vorschub. Für folgende Materialien empfohlen : Inox 304, 316L, 317L, 904, Phynox

- very wear and high temperature resistant grade, for light machining of small parts with low cutting feed. Recommended for following material : Inox 304, 316L, 317L, 904, Phynox

µK10

HCR-TF

K10

µK10 + revêtement PVD
µK10 + PVD Beschichtung
µK10 + PVD coating

TF F M E

P ☆☆☆☆☆
M ☆☆☆☆☆
N ★★★★★
S ★★★★☆

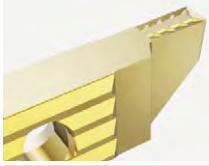
- nuance spécifique aux matériaux non ferreux tels que cuivre, laiton, laiton sans plomb, bronze, maillechort. Réduit le collage. Alternative aux revêtements DLC pour certains domaines d'applications

- spezifische Sorte, für Nichteisenmetalle wie Kupfer, Messing, bleifreies Messing, Bronze, Neusilber. Verringerung des Klebens. Alternative zu DLC-Beschichtungen in gewissen Einsatzbereichen

- specific grade for non-ferrous materials such as copper, brass, lead-free brass, bronze and nickel silver. Reduces sticking. Alternative to DLC coatings for certain applications

µK10

HTiN



K10

µK10 + revêtement PVD
µK10 + PVD Beschichtung
µK10 + PVD coating

TF F **M** E

P ★★★★☆
M ★★★★☆
N ★★★☆☆
S ☆☆☆☆☆

- nuance pour l'usinage en finition des matières peu résistantes qui créent des arêtes rapportées
- très faible coefficient de frottement
- à éviter pour l'usinage du titane

- Sorte für die Feinbearbeitung von weichen Werkstoffen mit Tendenz zur Bildung von Aufbauschneiden
- sehr geringer Reibwert
- für die Bearbeitung von Titan nicht geeignet

- grade for light machining of low resistance materials which causes edge build-up
- very low friction ratio
- not suitable for titanium machining

µK10

HAC

K10

µK10 + revêtement PVD
µK10 + PVD Beschichtung
µK10 + PVD coating

TF F **M** E

P ☆☆☆☆☆
M ☆☆☆☆☆
N ★★★★★
S ★★★★★

- nuance pour métaux non ferreux
- très faible coefficient de frottement
- 1er choix pour l'usinage des aluminiums jusqu'à 5 % Si, des cuivres et titanes faiblement alliés

- Sorte für Nichteisenmetalle
- sehr geringer Reibwert
- erste Wahl von Aluminium bis 5 % Si, Kupfer und niedrigleigiertem Titan

- grade non-ferrous materials
- very low fiction ration
- first choice for aluminium up to 5 % Si, copper and low alloyed titanium

µK10

HN

K10

Non revêtu
Unbeschichtet
Uncoated

P ★☆☆☆☆
M ★☆☆☆☆
N ★★★☆☆
S ★★★☆☆

- nuance micro-grain très résistante à l'usure
- recommandé pour l'usinage du titane faiblement allié
- déconseillé en cas de coupe interrompue

- verschleissfeste Feinkornsorte
- für die Bearbeitung von niedrig legiertem Titan empfehlenswert
- für unterbrochene Schnitte nicht geeignet

- wear resistant micro-grain grade
- suitable for the machining of low alloyed titanium
- not suitable for interrupted cut

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

Matière Werkstoff Material		Tournage Drehen Turning			Tronçonnage Abstechen Parting off		
		VC	Prof. de passe Schnitttiefe Depth of cut	Avance Vorschub Feed	VC	Largeur de coupe Abstechbreite Cutting width	Avance Vorschub Feed
		(m/min)	(mm)	(mm/U)	(m/min)	(mm)	(mm/U)
Acier de décolletage Automatenstahl Free-cutting steel	P	120 - 200	0.05 - 1.0 1.0 - 4.0	0.01 - 0.15 0.05 - 0.25	80 - 150	0.50 - 1.50 1.50 - 3.50	0.01 - 0.08 0.03 - 0.15
Acier Stahl Steel	< 600 N/mm² P	80 - 160	0.05 - 1.0 1.0 - 4.0	0.01 - 0.15 0.05 - 0.25	70 - 120	0.50 - 1.50 1.50 - 3.50	0.01 - 0.06 0.03 - 0.12
Acier Stahl Steel	< 800 N/mm² P	60 - 120	0.05 - 1.0 1.0 - 4.0	0.01 - 0.10 0.05 - 0.20	60 - 100	0.50 - 1.50 1.50 - 3.50	0.01 - 0.05 0.03 - 0.10
Acier Stahl Steel	> 800 N/mm² P	50 - 100	0.05 - 1.0 1.0 - 3.0	0.01 - 0.08 0.05 - 0.15	40 - 80	0.50 - 1.50 1.50 - 3.50	0.01 - 0.04 0.03 - 0.08
Acier inoxydable Rostfreistahl Stainless steel	M	60 - 120	0.05 - 1.0 1.0 - 3.0	0.01 - 0.08 0.05 - 0.15	60 - 100	0.50 - 1.50 1.50 - 3.50	0.01 - 0.04 0.03 - 0.08
Aluminium Si <12%	N	200 - 1000	0.05 - 1.0 1.0 - 4.0	0.01 - 0.20 0.05 - 0.40	180 - 400	0.50 - 1.50 1.50 - 3.50	0.01 - 0.10 0.03 - 0.20
Aluminium Si >12%	N	180 - 800	0.05 - 1.0 1.0 - 4.0	0.01 - 0.20 0.05 - 0.40	150 - 300	0.50 - 1.50 1.50 - 3.50	0.01 - 0.10 0.03 - 0.20
Cuivre, laiton, bronze Kupfer, Messing, Bronze Copper, brass, bronze	N	100 - 500	0.05 - 1.0 1.0 - 4.0	0.01 - 0.20 0.05 - 0.35	100 - 300	0.50 - 1.50 1.50 - 3.50	0.01 - 0.10 0.03 - 0.20
Titane Titan Titanium	S	30 - 70	0.05 - 1.0 1.0 - 4.0	0.01 - 0.08 0.05 - 0.15	30 - 50	0.50 - 1.50 1.50 - 3.50	0.01 - 0.03 0.03 - 0.06

Indications pour premier réglage
Hinweise für die erste Einrichtung
Indications for first setting

Ébauche Schruppen Roughing	Finition Schlichten Finishing
• vitesse de coupe moyenne • avance élevée	• vitesse de coupe élevée • avance faible
• durchschnittliche Schnittgeschwindigkeit • hoher Vorschub	• hohe Schnittgeschwindigkeit • niedriger Vorschub
• average cutting speed • high feed rate	• high cutting speed • low cutting feed

Remarques importantes
Wichtige Bemerkungen
Important remarks

- en raison des limites de la machine, il n'est souvent pas possible d'atteindre les vitesses de coupe préconisées
- les outils Applitec sont spécialement développés pour permettre de hautes performances, même dans des conditions de coupe défavorables
- des applications non préconisées dans le tableau ci-contre peuvent également s'avérer efficaces

- wegen begrenzter Maschinenleistung ist es oft nicht möglich, die vorgeschlagenen Schnittgeschwindigkeiten zu erreichen
- Applitec Werkzeuge sind besonders dazu entwickelt, um sogar bei ungünstigen Schnittdaten leistungsfähig zu sein
- die in der nebenstehender Tabelle nicht erwähnten Anwendungsfälle können sich auch effizient erweisen

- due to the limitations of the machine, it is often not possible to achieve the recommended cutting speeds
- Applitec tools are specially developed to deliver high performance, even in unfavorable cutting conditions
- applications not mentioned in the opposite table can also be efficient

PCD / PKD

PCD / PKD

Diamant polycristallin
Polykristalliner Diamant
Polycrystalline diamond

P	★★★★★
M	★★★★★
N	★★★★★
S	★★★★★

- le PCD est principalement utilisé pour l'usinage de matériaux non ferreux très abrasifs
- il offre une haute dureté, une faible friction et une excellente conductivité thermique, des caractéristiques qui permettent d'atteindre des vitesses de coupe élevées et d'augmenter la durée de vie des outils

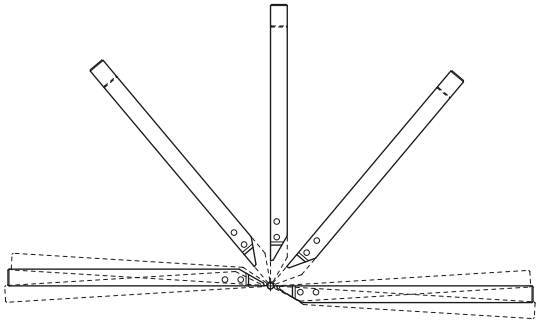
- PKD wird hauptsächlich für die Zerspanung hochabrasiver, nicht eisenhaltiger Werkstoffe verwendet
- er zeichnet sich durch hohe Härte, geringe Reibung und exzellente Wärmeleitfähigkeit aus – Eigenschaften, die hohe Schnittgeschwindigkeiten ermöglichen und die Standzeit der Werkzeuge erhöhen

- PCD is primarily used for machining highly abrasive non-ferrous materials
- it features high hardness, low friction, and excellent thermal conductivity - characteristics that enable high cutting speeds and extend tool life

Paramètres de coupe indicatifs PCD
PKD empfohlene Schnittwerte
PCD standard machining data

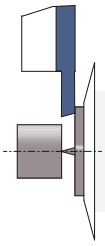
Matière Werkstoff Material		Tournage et tronçonnage Drehen und Abstechen Turning and parting off		
		VC	Prof. de passe Schnitttiefe Depth of cut	Avance Vorschub Feed
		(m/min)	(mm)	(mm/U)
Aluminium Si <12%	N	250 - 350	0.05 - 1.0 1.0 - 4.0	0.04 - 0.07 0.05 - 0.10
Aluminium Si >12%	N	180 - 250	0.05 - 1.0 1.0 - 4.0	0.10 - 0.25 0.12 - 0.36
Cuivre, laiton, bronze Kupfer, Messing, Bronze Copper, brass, bronze	N	350 - 450	0.05 - 1.0 1.0 - 4.0	0.04 - 0.08 0.05 - 0.11
Alliage de cuivre sans plomb (ECOBRASS) Kupferlegierung ohne Blei (ECOBRASS) Lead-free copper alloy (ECOBRASS)	N	320 - 420	0.05 - 1.0 1.0 - 4.0	0.03 - 0.07 0.04 - 0.09
Plastique renforcé de fibres de verre, graphite Glasfaserverstärkter Kunststoff, Graphit Glass fiber reinforced plastic, graphite	N	450 - 600	0.05 - 1.0 1.0 - 4.0	0.04 - 0.08 0.05 - 0.11
Thermoplastique renforcé de fibres de carbone, téflon Kohlenstofffaserverstärkter Thermoplast, Teflon Carbon fiber reinforced thermoplastic, Teflon	N	450 - 600	0.05 - 1.0 1.0 - 4.0	0.04 - 0.08 0.05 - 0.11
Or, argent et platine Gold, Silber und Platin Gold, silver and platinum	N	320 - 370	0.05 - 1.0 1.0 - 4.0	0.03 - 0.06 0.04 - 0.07

L		R	
Type	Page	**Type**	Page
710	1.24	720	1.24
710-NOVIBRA	1.25	721	1.26
711	1.26	721-EP	1.33
711-EP	1.33	722	1.27
712	1.27	723-30	1.28
713-30	1.28	723-45	1.29
713-45	1.29	723-60	1.30
713-60	1.30	724	1.31
714	1.31	726	1.32
716	1.32		

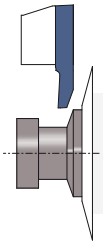


Porte-outils et plaquettes pour machines à cames
Halter und WSP für kurvengesteuerte Maschinen
Tool holders and inserts for cam driven machines

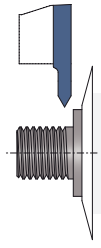
Index



711 / 721
Tronçonnage
Abstechen
Parting off
> 1.26

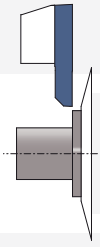


713 / 723
Tournage arrière
Rückwärts drehen
Back turning
> 1.28

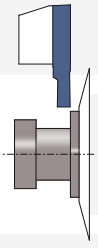


716 / 726
Filetage
Gewinde drehen
Threading
> 1.32

710 / 720
Porte-outils
Halter
Holders
> 1.24



712 / 722
Tournage avant
Vorwärts drehen
Front turning
> 1.27



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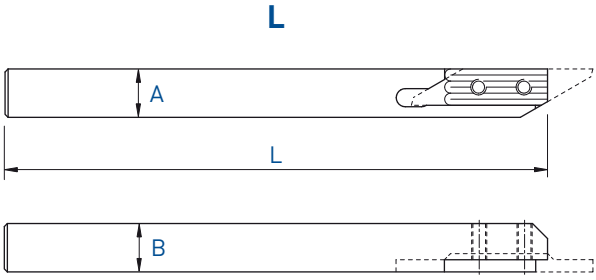
Fonçage-tournage
Einstechen und drehen
Grooving and turning
> 1.31

Plaquettes ébauches
WSP-Rohlinge
Blank inserts
> 1.33

710 / 720

Porte-outils
Halter
Holders

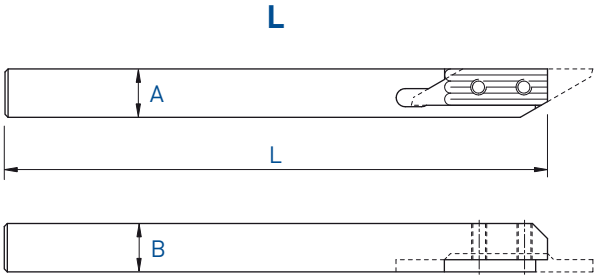


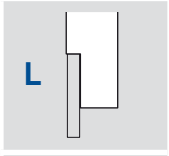
A x B	L	Serrage Spannsystem Clamping	L **Art. N°**	R **Art. N°**
6 x 6	115	A	**710-6**	**-**
7 x 7	115	A	**710-7**	**720-7**
8 x 8	115	A	**710-8**	**720-8**
8 x 8	140	A	**710-8-140**	**-**
10 x 10	115	A	**710-10**	**720-10**
12 x 12	130	A	**710-12**	**720-12**

Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

Porte-outils en métal lourd anti-vibratoire
Schwingungsdämpfende Schwermetallhalter
Low vibration heavy metal holders

710-NOVIBRA





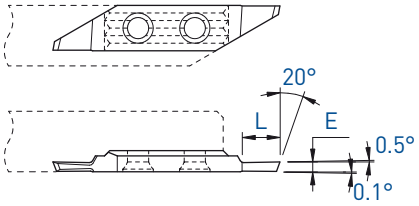
A x B	L	Serrage Spannsystem Clamping	Art. N°
6 x 6	115	A	**710-6-NOVIBRA**
7 x 7	115	A	**710-7-NOVIBRA**
8 x 8	115	A	**710-8-NOVIBRA**

Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

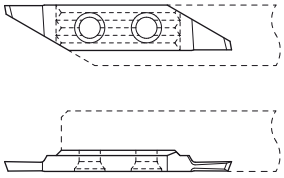
711 / 721

Tronçonnage
Abstechen
Parting off

L



R

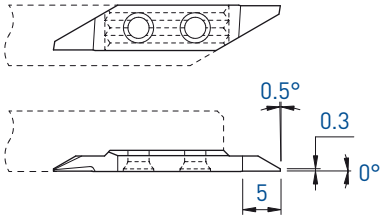


		L							R						
E	L	Art. N°	P M N S TiAlN	P M N TiN	P S N (µK20)	P M N S HTA	P M N HTiN	P N S HN (µK10)	Art. N°	P M N S TiAlN	P M N TiN	P S N (µK20)	P M N S HTA	P M N HTiN	P N S HN (µK10)
0.5	2	**711-0.5**	●	●	●	●		●	-						
0.8	3	**711-0.8**	●	●	●	●	●	●	**721-0.8**	●	●	●			
0.9	3	**711-0.9**	●	●	●	●	●	●	-						
1.0	4	**711-1.0**	●	●	●	●	●	●	**721-1.0**	●	●	●	●		●
1.1	4	**711-1.1**	●	●	●	●	●	●	-						
1.2	5	**711-1.2**	●	●	●	●	●	●	**721-1.2**	●	●	●	●		●
1.3	5	**711-1.3**	●	●	●	●	●	●	-						
1.4	5	**711-1.4**	●	●	●				-						
1.5	6.5	**711-1.5**	●	●	●	●	●	●	**721-1.5**	●	●	●	●		●
1.8	6.5	**711-1.8**	●	●	●	●		●	**721-1.8**	●	●	●			
2.0	6.5	**711-2.0**	●	●	●				**721-2.0**	●	●	●			

Tournage avant
Vorwärts drehen
Front turning

712 / 722

L



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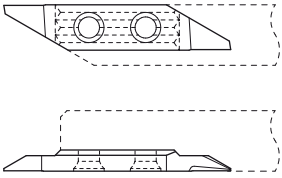
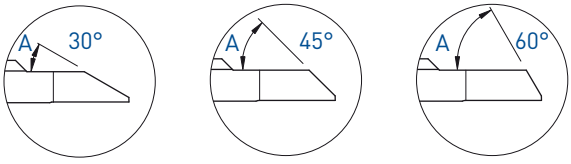
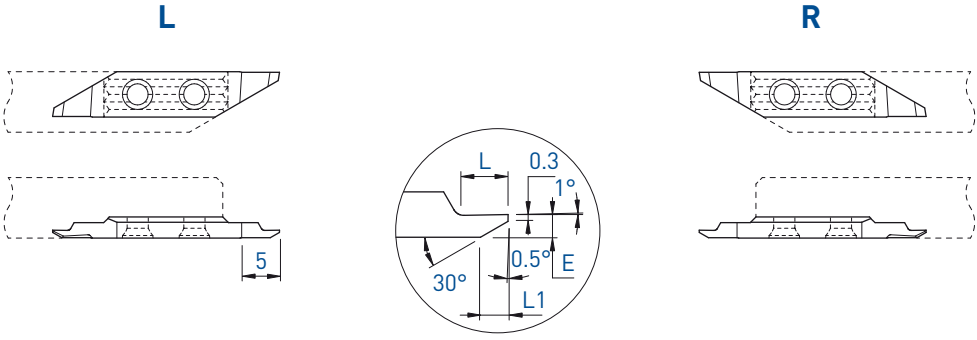




	L							R						
A	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)
30°	712-30	●	●	●	●		●	722-30	●	●	●	●		●
45°	712-45	●	●	●	●	●	●	722-45	●	●	●	●		●
60°	712-60	●	●	●	●		●	722-60	●	●	●	●		●

713-30° / 723-30°

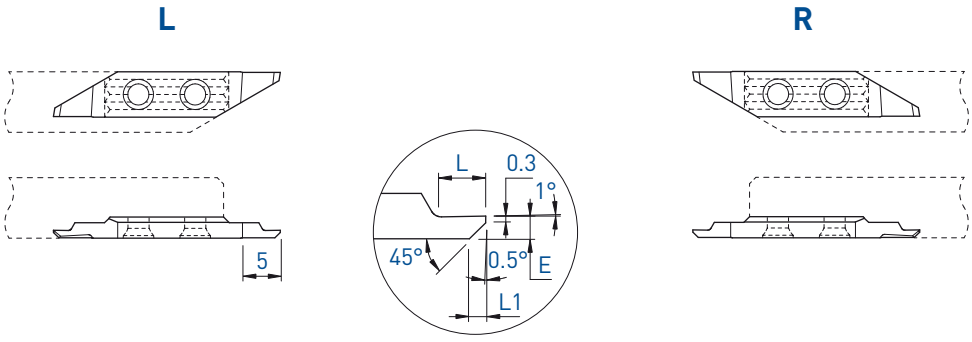
Tournage arrière
Rückwärts drehen
Back turning



L											R							
E	L	L1	Art. N°	TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)		Art. N°	TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)	
0.8	1.6	0.85	**713-30-0.8**	●	●	●					**723-30-0.8**	●	●	●	●		●	
0.9	1.6	1.05	**713-30-0.9**	●	●	●					-							
1.0	2.0	1.2	**713-30-1.0**	●	●	●	●	●	●		**723-30-1.0**	●	●	●	●		●	
1.1	2.0	1.4	**713-30-1.1**	●	●	●					-							
1.2	2.5	1.55	**713-30-1.2**	●	●	●					**723-30-1.2**	●	●	●				
1.3	2.5	1.7	**713-30-1.3**	●	●	●					-							
1.4	3.0	1.9	**713-30-1.4**	●	●	●					-							
1.5	3.0	2.1	**713-30-1.5**	●	●	●	●	●	●		**723-30-1.5**	●	●	●				
1.8	4.0	2.6	**713-30-1.8**	●	●	●					**723-30-1.8**	●	●	●				
2.0	4.0	2.9	**713-30-2.0**	●	●	●	●	●	●		**723-30-2.0**	●	●	●				

Tournage arrière
Rückwärts drehen
Back turning

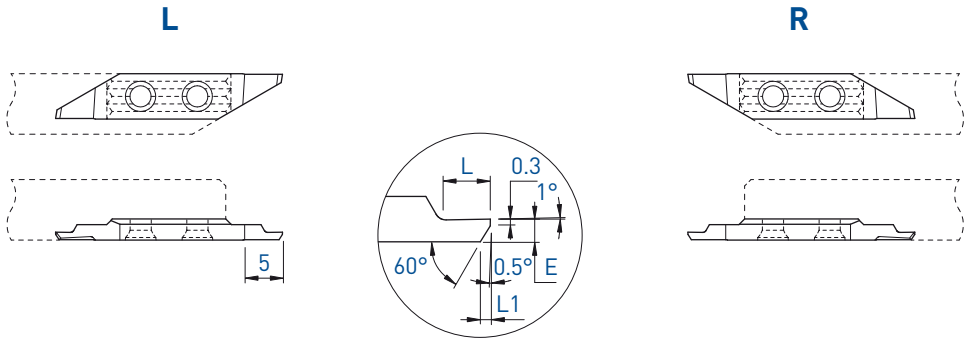
713-45° / 723-45°



L										R							
E	L	L1	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)
0.8	1.6	0.5	**713-45-0.8**	●	●	●	●		●	**723-45-0.8**	●	●	●			
0.9	1.6	0.6	**713-45-0.9**	●	●	●				-						
1.0	2.0	0.7	**713-45-1.0**	●	●	●	●		●	**723-45-1.0**	●		●			
1.1	2.0	0.8	**713-45-1.1**	●	●	●				-						
1.2	2.5	0.9	**713-45-1.2**	●	●	●				**723-45-1.2**	●	●	●			
1.3	2.5	1.0	**713-45-1.3**	●	●	●				-						
1.4	3.0	1.1	**713-45-1.4**	●	●	●				-						
1.5	3.0	1.2	**713-45-1.5**	●	●	●	●	●	●	**723-45-1.5**	●	●	●			
1.8	4.0	1.5	**713-45-1.8**	●	●	●				**723-45-1.8**	●		●			
2.0	4.0	1.7	**713-45-2.0**	●	●	●				**723-45-2.0**	●	●	●			

713-60° / 723-60°

Tournage arrière
Rückwärts drehen
Back turning

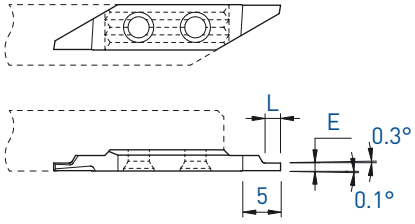


			L				R			
E	L	L1	Art. N°	TiAlN	TiN	N (µK20)	Art. N°	TiAlN	TiN	N (µK20)
0.8	1.6	0.3	**713-60-0.8**	●	●	●	**723-60-0.8**	●	●	●
0.9	1.6	0.35	**713-60-0.9**	●	●	●	-			
1.0	2.0	0.4	**713-60-1.0**	●	●	●	**723-60-1.0**	●		●
1.1	2.0	0.45	**713-60-1.1**	●	●	●	-			
1.2	2.5	0.5	**713-60-1.2**	●	●	●	**723-60-1.2**	●		●
1.3	2.5	0.6	**713-60-1.3**	●	●	●	-			
1.4	3.0	0.65	**713-60-1.4**	●	●	●	-			
1.5	3.0	0.7	**713-60-1.5**	●	●	●	**723-60-1.5**	●	●	●
1.8	4.0	0.9	**713-60-1.8**	●	●	●	**723-60-1.8**	●		●
2.0	4.0	1.0	**713-60-2.0**	●	●	●	**723-60-2.0**	●	●	●

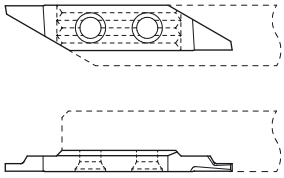
Fonçage-tournage
Einstechen und drehen
Grooving and turning

714 / 724

L

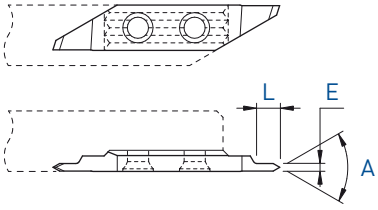


R

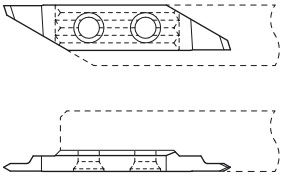


		L							R						
E	L	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)
0.5	1.0	**714-0.5**	●	●	●				**724-0.5**	●	●	●	●		●
0.6	1.0	**714-0.6**	●	●	●				**724-0.6**	●	●	●			
0.7	1.5	**714-0.7**	●	●	●				**724-0.7**	●	●	●			
0.8	1.5	**714-0.8**	●	●	●	●	●	●	**724-0.8**	●	●	●			
0.9	2.0	**714-0.9**	●	●	●				**724-0.9**	●		●			
1.0	2.0	**714-1.0**	●	●	●	●	●	●	**724-1.0**	●	●	●			
1.1	2.0	**714-1.1**	●	●	●				**724-1.1**	●		●			
1.2	2.5	**714-1.2**	●	●	●				**724-1.2**	●		●			
1.3	2.5	**714-1.3**	●	●	●				**724-1.3**	●	●	●			
1.4	3.0	**714-1.4**	●	●	●				**724-1.4**	●		●			
1.5	3.0	**714-1.5**	●	●	●	●	●	●	**724-1.5**	●	●	●			

L



R

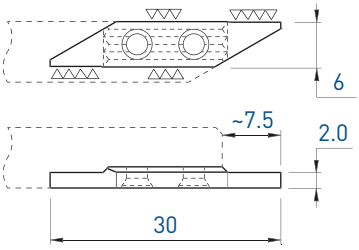


			L				**R**			
A	E	L	**Art. N°**	P M N S TiAlN	P M N TiN	P S N (µK20)	**Art. N°**	P M N S TiAlN	P M N TiN	P S N (µK20)
60°	1.0	3	**716-60-1.0**	●	●	●	**726-60-1.0**	●	●	●
60°	1.5	4	**716-60-1.5**	●	●	●	**726-60-1.5**	●	●	●
55°	1.0	3	**716-55-1.0**	●	●	●	**726-55-1.0**	●		●
55°	1.5	4	**716-55-1.5**	●	●	●	**726-55-1.5**	●		●

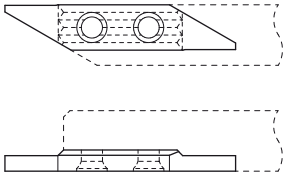
Plaquettes ébauches
WSP-Rohlinge
Blank inserts

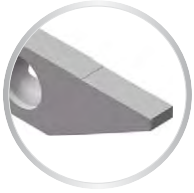
711-EP / 721-EP

L



R





L							R						
Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)
711-EP	●	●	●	●	●	●	721-EP	●		●	●		●

L

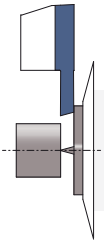
Type		Page
730	730	1.36
	730-JET	1.37
	730-NOVIBRA	1.40
	730RC	1.39
731	731	1.43
	731-E	1.88
	731-EP	1.89
	731N	1.49/1.57
	731R	1.51
	731R-PCD	1.58
	731RU	1.56
	731RX12	1.54
	731RX25	1.55
	731RX4	1.52
	731RXF	1.53
	731U	1.48
	731X12	1.46
	731X25	1.47
	731X4	1.44
	731XF	1.45
732	732	1.59
	732PX	1.60
	732X	1.61
733	733	1.65
	733P	1.73
	733VX-15°	1.70
	733VX-8°	1.68
	733VX-805	1.69
	733X	1.66
	733ZX	1.72
734	734	1.75
	734VS	1.76
	734X	1.77
	734ZX	1.78
735	735	1.82
	735X-90	1.83
736	736	1.84
	736-A60°	1.85
	736-M	1.86
737	737	1.87

R

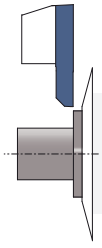
Type		Page
740	740	1.36
	740-C	1.38
	740-D-JET	1.42
	740-JET	1.37
	740-NOVIBRA	1.40
	740/730-D	1.41
741	741	1.43
	741-E	1.88
	741-EP	1.89
	741-PCD	1.50
	741L	1.51
	741LX12	1.54
	741LX25	1.55
	741LX4	1.52
	741LXF	1.53
	741N	1.49/1.57
	741U	1.48
	741X12	1.46
	741X25	1.47
	741X4	1.44
	741XF	1.45
742	742	1.59
	742-PCD	1.64
	742PX	1.60
	742VUX	1.62
	742X	1.61
	742ZF-X	1.63
743	743	1.65
	743-PCD	1.74
	743P	1.73
	743VX-15°	1.70
	743VX-8°	1.68
	743VX-805	1.69
	743VUX	1.71
	743VUX8	1.67
	743X	1.66
	743ZX	1.72
744	744	1.75
	744-PCD	1.81
	744VS	1.76
	744X	1.77
	744ZF-X	1.80
	744ZX	1.78
	744ZXT	1.79
745	745	1.82
	745X-90	1.83
746	746	1.84
	746-A60°	1.85
	746-M	1.86
747	747	1.87

Index

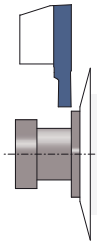
730 / 740



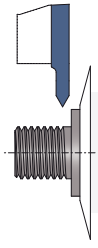
731 / 741
Tronçonnage
Abstechen
Parting off
> 1.43



732 / 742
Tournage avant
Vorwärts drehen
Front turning
> 1.59

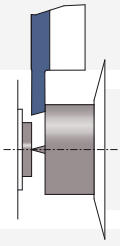


734 / 744
Fonçage-tournage
Einstechen und drehen
Grooving and turning
> 1.75

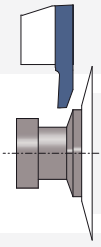


736 / 746
Filetage
Gewinde drehen
Threading
> 1.84

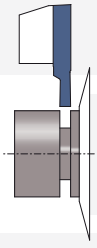
730 / 740
Porte-outils
Halter
Holders
> 1.36



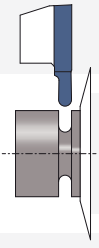
741L / 731R
Tronçonnage - coupe déportée
Abstechen - versetztes Schneiden
Parting off - cut off line
> 1.51



733 / 743
Tournage arrière
Rückwärts drehen
Back turning
> 1.65



735 / 745
Gorges
Einstechen
Grooving
> 1.82

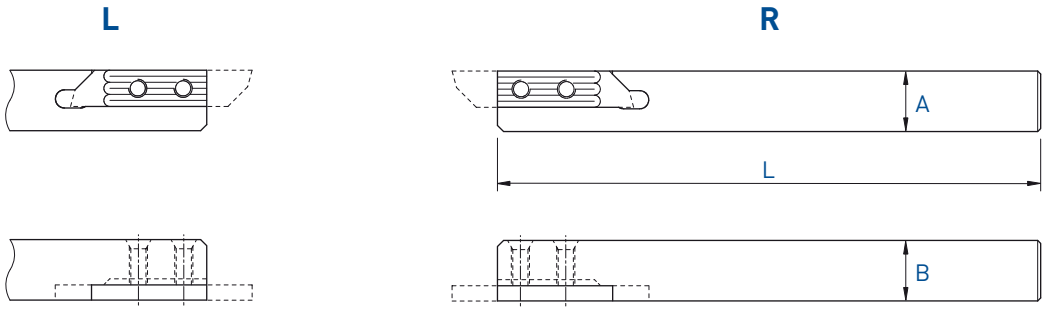


737 / 747
Plaquettes à rayon
Radius Wendeplatten
Radius inserts
> 1.87

Plaquettes ébauches
WSP-Rohlinge
Blank inserts
> 1.88

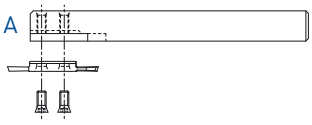
730 / 740

Porte-outils
Halter
Holders

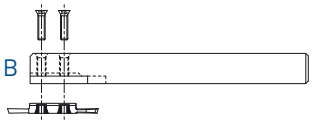


A x B	L	Serrage Spannsystem Clamping	L Art. N°	R Art. N°
7 x 7	115	A	**730-7**	**740-7**
8 x 8	115	A + B	**730-8**	**740-8**
8 x 8	140	A + B	**730-8-140**	-
9.52 x 9.52	115	A + B	**730-9.52**	**740-9.52**
10 x 10	115	A + B	**730-10**	**740-10**
10 x 10	50	A + B	**730-10-50**	**740-10-50**
12 x 12	130	A + B	**730-12**	**740-12**
12 x 12	90	A + B	**730-12-90**	**740-12-90**
12.7 x 12.7	130	A + B	**730-12.7**	**740-12.7**
16 x 16	130	A + B	**730-16**	**740-16**
16 x 16	75	A + B	**730-16-75**	**740-16-75**
20 x 20	120	A + B	**730-20**	**740-20**

Serrage standard A
Standard Spannsystem A
Standard clamping system A



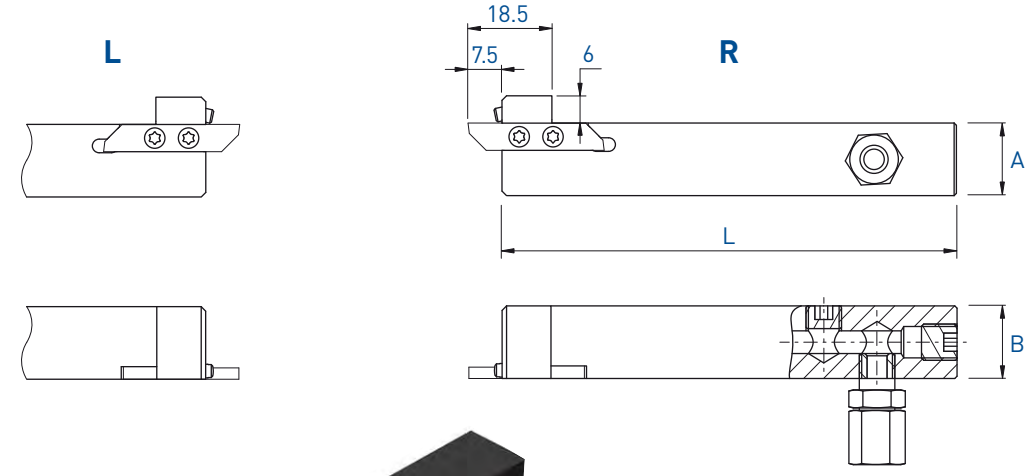
Serrage B
Spannsystem B
Clamping system B



Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

Porte-outils avec arrosage intégré
Halter mit integrierter Kühlmittelzufuhr
Holders with integrated coolant supply

730-JET / 740-JET

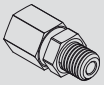
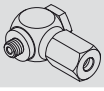


A x B	L	Serrage Spannsystem Clamping	L Art. N°	R Art. N°
8 x 10	100	A + B	-	**740-0810-JET**
10 x 12	100	A + B	**730-1012-JET**	**740-1012-JET**
10 x 12	80	A + B	-	**740-1012-80-JET**
12 x 12	100	A + B	**730-12-JET**	**740-12-JET**
12.7 x 12.7	100	A + B	**730-12.7-JET**	**740-12.7-JET**
16 x 16	100	A + B	**730-16-JET**	**740-16-JET**
20 x 20	100	A + B	**730-20-JET**	**740-20-JET**

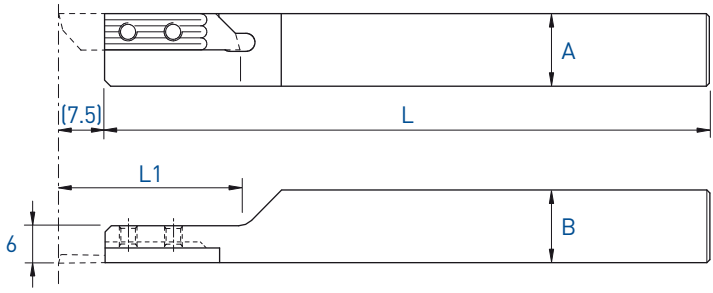
Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.

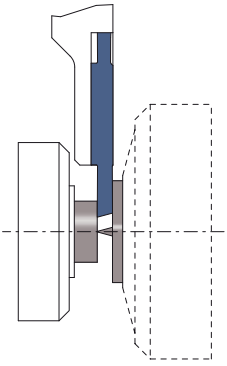
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.

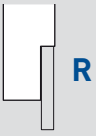
Each holder is supplied with one or more screws. The keys must be ordered separately.

Pièces de rechange Ersatzteile Spare parts	 Art. N°	Art. N°	Buses Düsen Nozzles Art. N°	Option  Art. N°
740-0810-JET	**J-M5-D5**	**JB-M5**	**–**	**JC-M5-D5**
730-JET / 740-JET	**J-M8X1-D6**	**JB-M8X1**	**JJ-M3X6-D1.5**	**–**
				More option see JET-Line

R







A x B	L	L1	Serrage Spannsystem Clamping	Art. N°
8 x 8	115	24	A	**740-C-8**
10 x 10	115	24	A	**740-C-10**
12 x 12	130	30	A	**740-C-12**
12.7 x 12.7	130	30	A	**740-C-12.7**
16 x 16	130	40	A	**740-C-16**

Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

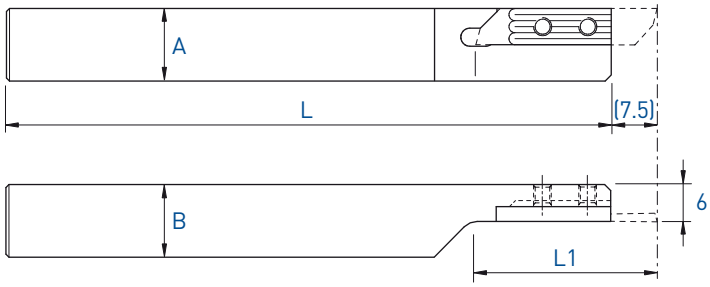
Porte-outils
Halter
Holders

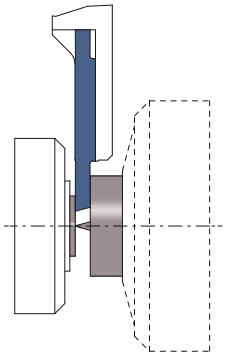
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

730RC

Utiliser des plaquettes type 731R
WSP Typ 731R verwenden
Use inserts type 731R

Voir pages 1.51 - 1.58
Siehe Seiten 1.51 - 1.58
See pages 1.51 - 1.58

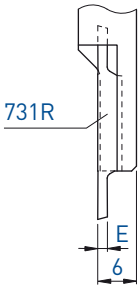




L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

A x B	L	L1	Art. N°
8 x 8	115	24	**730RC-8**
10 x 10	115	24	**730RC-10**
12 x 12	130	30	**730RC-12**
12.7 x 12.7	130	30	**730RC-12.7**
16 x 16	130	40	**730RC-16**

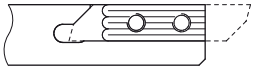


Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

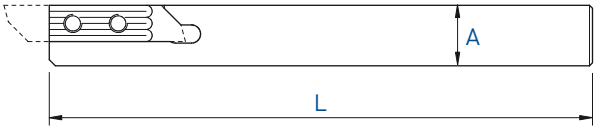
730-NOVIBRA
740-NOVIBRA

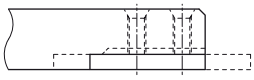
Porte-outils en métal lourd anti-vibratoire
Schwingungsdämpfende Schwermetallhalter
Low vibration heavy metal holders

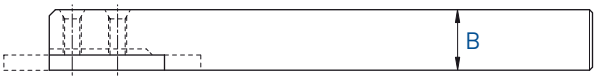
L

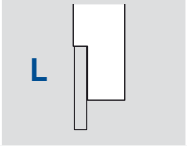


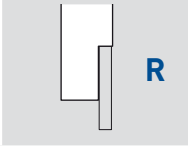
R









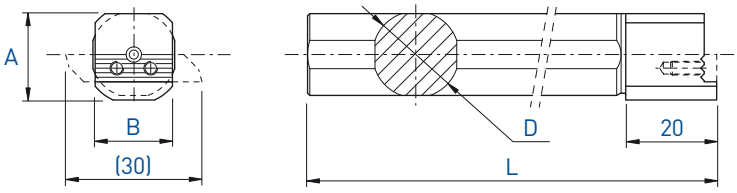


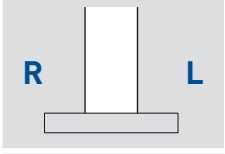
A x B	L	Serrage Spannsystem Clamping	Art. N°	Art. N°
7 x 7	115	A	**730-7-NOVIBRA**	**740-7-NOVIBRA**
8 x 8	115	A + B	**730-8-NOVIBRA**	**740-8-NOVIBRA**
8 x 8	80	A + B	-	**740-8-80-NOVIBRA**
10 x 10	115	A + B	-	**740-10-NOVIBRA**
12 x 12	130	A + B	-	**740-12-NOVIBRA**

Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

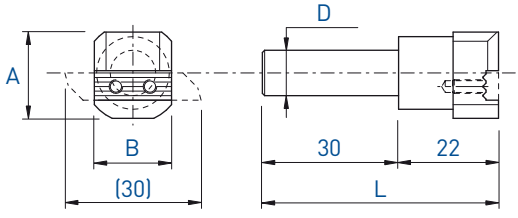
Porte-outils
Halter
Holders

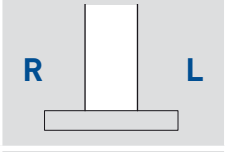
740 / 730-D





A x B	L	D	Art. N°
19 x 17	160	16	**740/730-D16**
19 x 17	160	19.05	**740/730-D19.05**
19 x 17	110	19.05	**740/730-D19.05-S**
19.5 x 17	160	20	**740/730-D20**
20 x 17	110	22	**740/730-D22**
22 x 17	200	25	**740/730-D25**
22 x 17	200	25.4	**740/730-D25.4**



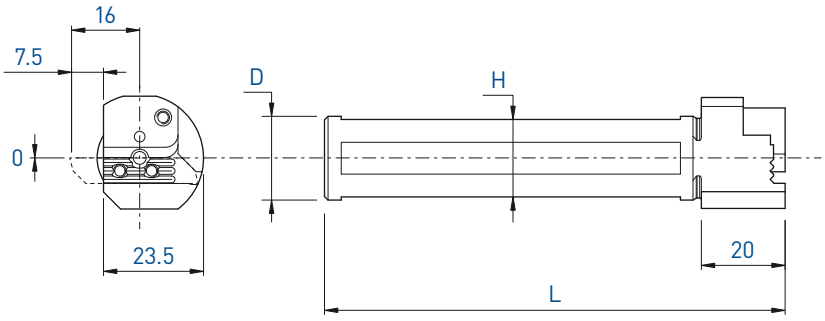


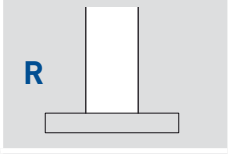
A x B	L	D	Art. N°
19 x 17	52	10	**740/730-D10**

Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

740-D-JET

Porte-outil frontal avec arrosage intégré
Frontaler Halter mit integrierter Kühlmittelzufuhr
Front holder with integrated coolant supply





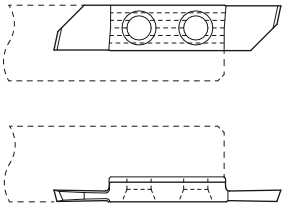
D	H	L	Art. N°
16	15	160	**740-D16-160-JET**
19.05	18	160	**740-D19.05-160-JET**
19.05	18	110	**740-D19.05-110-JET**
20	19	110	**740-D20-110-JET**
22	20	110	**740-D22-110-JET**
25	24	200	**740-D25-200-JET**
25.4	24	200	**740-D25.4-200-JET**

Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

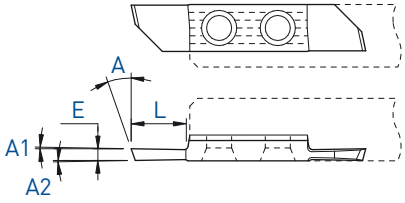
Tronçonnage
Abstechen
Parting off

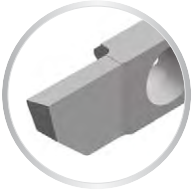
731 / 741

L



R





					L							R									
E	A	A1	A2	L	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiAlX	TiN	N (µk20)	HTA	HTiN	HN (µk10)	KST	KN (µk10-20)
0.6	18°	2.5°	0.5°	3	**731-0.6**	●		●	●		●	**741-0.6**	●	●		●	●		●		
0.8	20°	0.3°	0.3°	5	**731-0.8**	●	●	●	●		●	**741-0.8**	●	●	●	●	●	●	●		
1.0	20°	0.3°	0.3°	5	**731-1.0**	●	●	●	●	●	●	**741-1.0**	●	●	●	●	●	●	●	●	●
1.2	20°	0.3°	0.3°	5	**731-1.2**	●	●	●	●		●	**741-1.2**	●	●	●	●	●	●	●		
1.5	20°	0.3°	0.3°	7	**731-1.5**	●	●	●	●	●	●	**741-1.5**	●	●	●	●	●	●	●	●	●
1.8	20°	0.3°	0.3°	7	**731-1.8**	●	●	●	●		●	**741-1.8**	●	●	●	●	●		●		
2.0	20°	0.3°	0.3°	7	**731-2.0**	●	●	●	●		●	**741-2.0**	●	●	●	●	●	●	●	●	●
2.5	20°	0.3°	0.3°	7	**731-2.5**	●	●	●				**741-2.5**		●	●	●	●		●		●

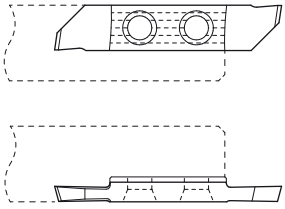
7XX-XX-B

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

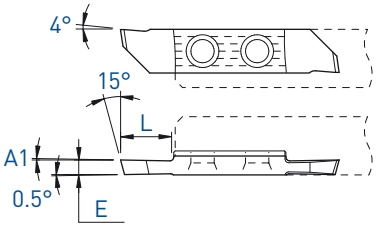
731X4 / 741X4

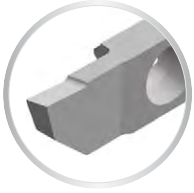
Tronçonnage
Abstechen
Parting off

L



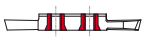
R





L										R										
E	A1	L	Art. N°	TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)	Art. N°	TiAlN	TiAlX	TiN	N (µK20)	HTA	HTiN	HN (µK10)	KST	KN (µK10-20)
0.6	2.5°	3	**731X4-0.6**	●		●	●		●	**741X4-0.6**	●	●		●	●		●		
0.8	0.5°	4	**-**							**741X4-0.8**					●		●		
1.0	0.5°	5	**731X4-1.0**	●	●	●				**741X4-1.0**	●	●	●	●	●		●	●	●
1.5	0.5°	7	**731X4-1.5**	●	●	●	●		●	**741X4-1.5**	●	●	●	●	●		●	●	●
2.0	0.5°	7	**731X4-2.0**	●	●	●				**741X4-2.0**	●	●	●	●					

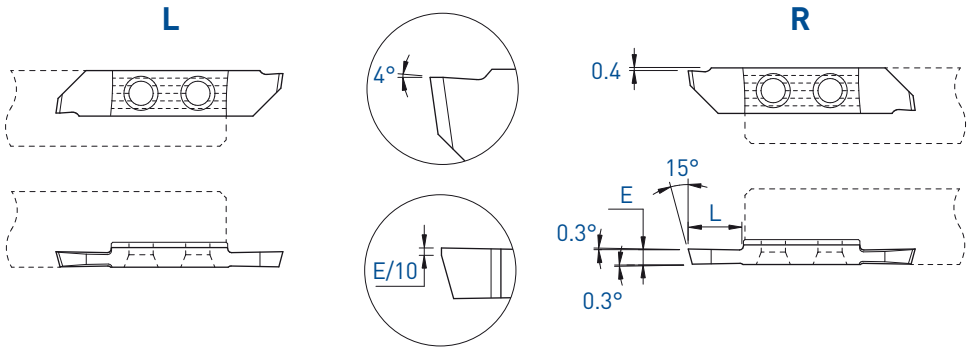
7XX-XX-B

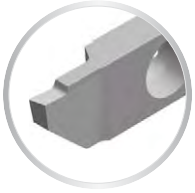


Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

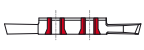
Tronçonnage
Abstechen
Parting off

731XF / 741XF





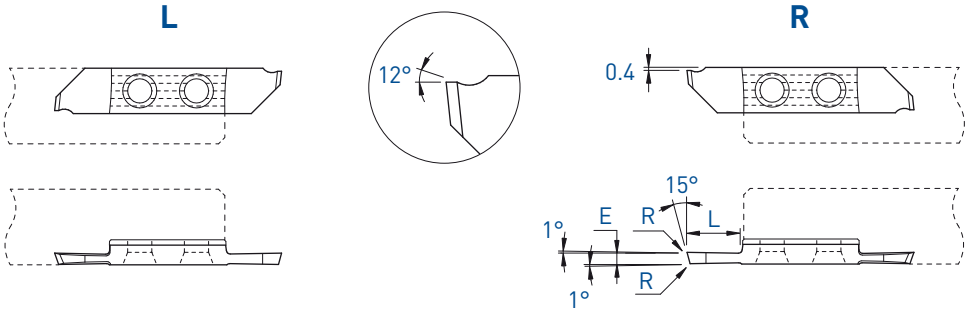
		L							R								
E	L	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	KST	KN (µk10-20)
1.2	5	-							741XF-1.2	●		●					
1.5	7	731XF-1.5	●	●	●	●	●	●	741XF-1.5	●	●	●	●	●	●	●	●
2.0	7	731XF-2.0	●	●	●				741XF-2.0	●	●	●	●	●	●	●	●
2.5	7	731XF-2.5	●	●	●				741XF-2.5	●	●	●					

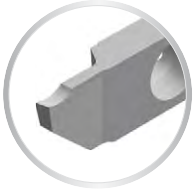


Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

731X12 / 741X12

Tronçonnage
Abstechen
Parting off





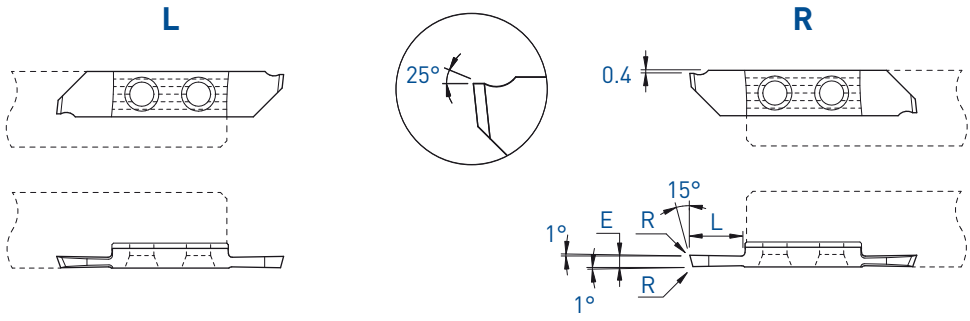
L										R										
E	L	R	Art. N°	TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)	Art. N°	TiAlN	TiAlX	TiN	N (µK20)	HTA	HTiN	HN (µK10)	KST	KN (µK10-20)
0.5	3	0.03	-							741X12-0.5					●		●		
1.0	5	0.03	731X12-1.0	●	●	●				741X12-1.0	●	●	●	●	●		●	●	●
1.5	7	0.03	731X12-1.5	●	●	●				741X12-1.5	●	●	●	●	●	●	●	●	●
2.0	7	0.03	731X12-2.0	●	●	●				741X12-2.0	●	●	●	●	●		●		

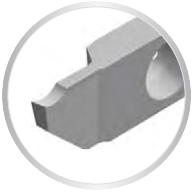
7XX-XX-B

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

Tronçonnage
Abstechen
Parting off

731X25 / 741X25





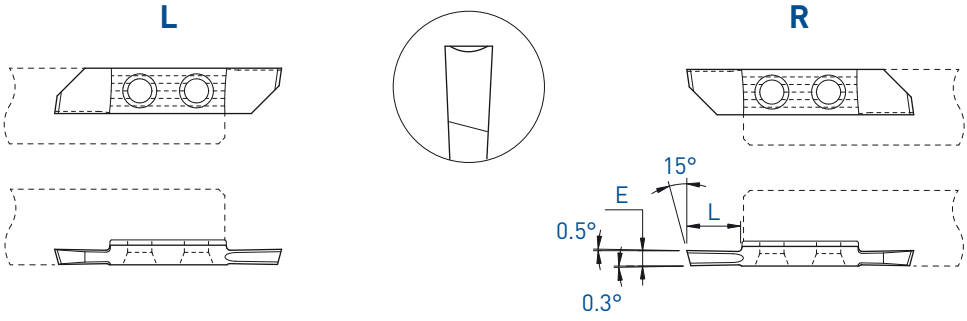
L										R									
E	L	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)		Art. N°	TiAlN	TiAlX	TiN	N (µk20)	HTA	HTiN	HN (µk10)		
1.0	5	**731X25-1.0**	●	●	●					**741X25-1.0**	●		●	●	●		●		
1.5	7	**731X25-1.5**	●	●	●					**741X25-1.5**	●		●	●	●		●		
2.0	7	**731X25-2.0**	●	●	●					**741X25-2.0**	●	●	●	●	●		●		

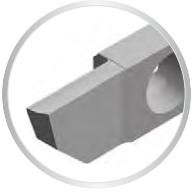
7XX-XX-B

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

731U / 741U

Tronçonnage
Abstechen
Parting off





		L							R						
E	L	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)
1.5	7	**731U-1.5**	●	●	●	●		●	**741U-1.5**	●	●	●	●	●	●
2.0	7	**731U-2.0**	●	●	●	●		●	**741U-2.0**	●	●	●	●		●

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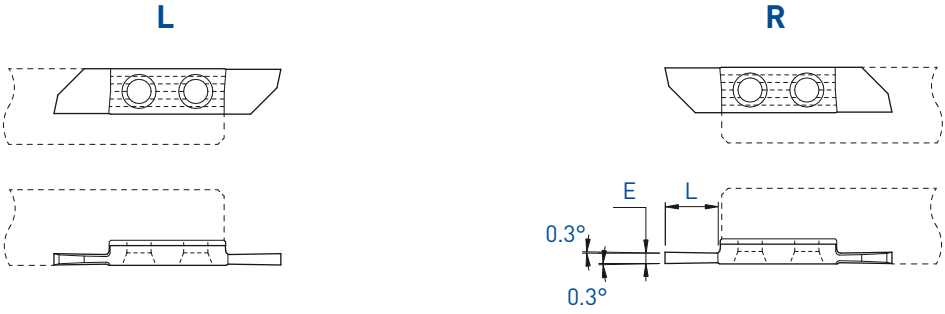
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

Tronçonnage
Abstechen
Parting off

731N / 741N



L										R							
E	L	Art. N°	P M N S	P M N	P S	P M N S	P M N	P N S	HN (µk10)	Art. N°	P M N S	P M N	P S	P M N S	P M N	P N S	HN (µk10)
				TiAlN	TiN	N (µk20)	HTA	HTiN				TiAlN	TiN	N (µk20)	HTA	HTiN	
1.0	5	**731N-1.0**	●	●	●	●		●		**741N-1.0**	●	●	●	●	●		●
1.5	7	**731N-1.5**	●	●	●	●		●		**741N-1.5**	●	●	●	●	●		●

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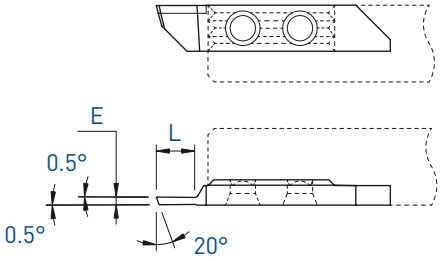
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

741-PCD

Tronçonnage
Abstechen
Parting off

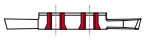
R



E	L	Art. N°	PCD
		R	
0.8	5	**741-0.8**	●
1.0	5	**741-1.0**	●
1.2	5	**741-1.2**	●
1.5	7	**741-1.5**	●
1.8	7	**741-1.8**	●
2.0	7	**741-2.0**	●
2.5	7	**741-2.5**	●

Uniquement 1 arête de coupe
Nur 1 Schneidekante
Only 1 cutting edge

7XX-XX-B



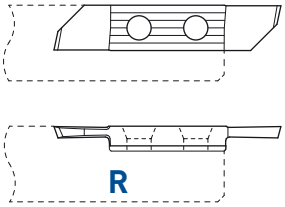
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

Tronçonnage
Abstechen
Parting off

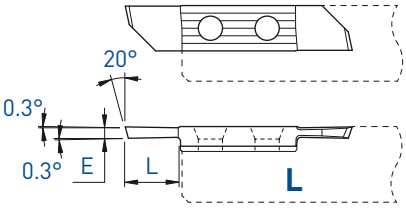
Coupe déportée
Versetztes Schneiden
Cut off line

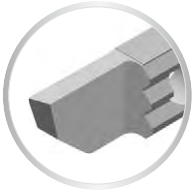
741L / 731R

Cut L



Cut R





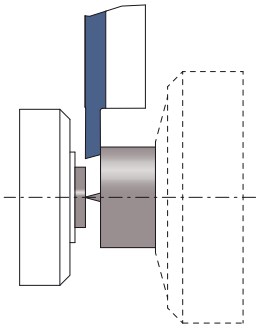
R (L)

Coupe à gauche déportée
Versetztes Linksschneiden
Left cut off line

L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

E	L	Art. N°	TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)	Art. N°	TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)	KST	KN (µK10-20)
			P M N S	P M N	P S	P M N S	P M N	P N S		P M N S	P M N	P S	P M N S	P M N	P N S	P M N S	P M N S
1.0	5	**741L-1.0**	●	●	●	●		●	**731R-1.0**	●	●	●	●	●	●	●	●
1.2	5	**741L-1.2**	●	●	●	●		●	**731R-1.2**	●	●	●	●	●	●		
1.5	7	**741L-1.5**	●	●	●	●	●	●	**731R-1.5**	●	●	●	●	●	●	●	●
2.0	7	**741L-2.0**	●	●	●	●		●	**731R-2.0**	●	●	●	●		●	●	●
2.5	7	**741L-2.5**	●	●	●				**731R-2.5**	●	●	●					



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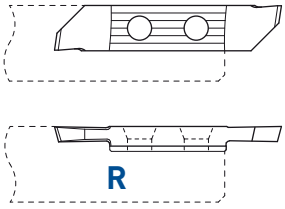
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

741LX4 / 731RX4

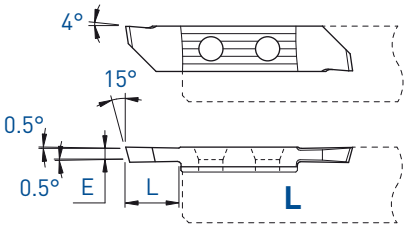
Coupe déportée
Versetztes Schneiden
Cut off line

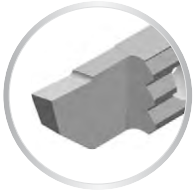
Tronçonnage
Abstechen
Parting off

Cut L

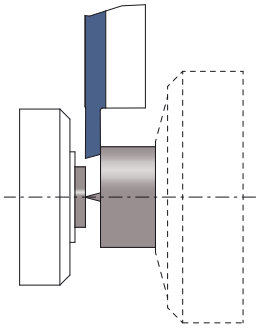


Cut R





R (L) Coupe à gauche déportée / Versetztes Linksschneiden / Left cut off line										L (R) Coupe à droite déportée / Versetztes Rechtsschneiden / Right cut off line									
E	L	Art. N°	P M N S	P M N	P S	P M N S	P M N	P M N S	P	Art. N°	P M N S	P M N	P S	P M N S	P M N	P M N S	P
			TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)			TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)	
1.5	5	**741LX4-1.5**	●	●	●					**731RX4-1.5**	●	●	●	●	●	●	



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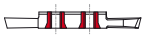


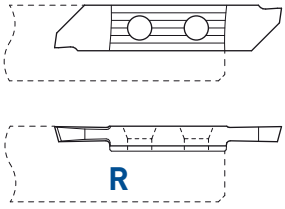
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

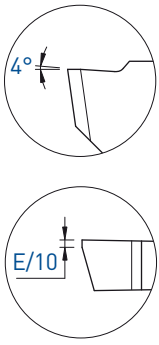
Tronçonnage
Abstechen
Parting off

Coupe déportée
Versetztes Schneiden
Cut off line

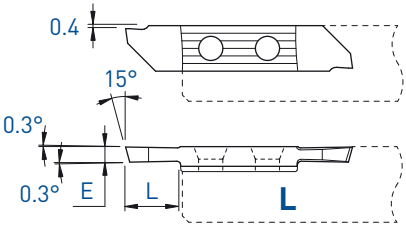
741LXF / 731RXF

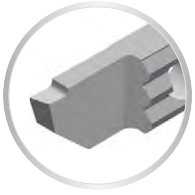
Cut L





Cut R





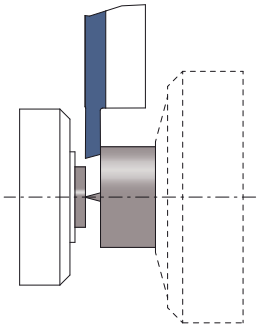
R (L)

Coupe à gauche déportée
Versetztes Linksschneiden
Left cut off line

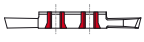
L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

E	L	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)
			P M N S	P M N	P S	P M N S	P M N	P N S		P M N S	P M N	P S	P M N S	P M N	P N S
1.5	7	**741LXF-1.5**	●	●	●				**731RXF-1.5**	●	●	●	●	●	●
2.0	7	**741LXF-2.0**	●	●	●				**731RXF-2.0**	●	●	●	●		●
2.5	7	**741LXF-2.5**	●	●	●				**731RXF-2.5**	●	●	●			



7XX-XX-B



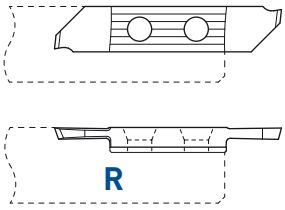
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

741LX12 / 731RX12

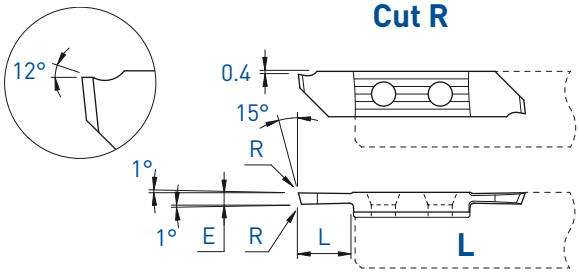
Coupe déportée
Versetztes Schneiden
Cut off line

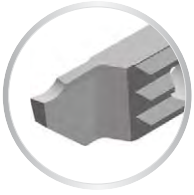
Tronçonnage
Abstechen
Parting off

Cut L



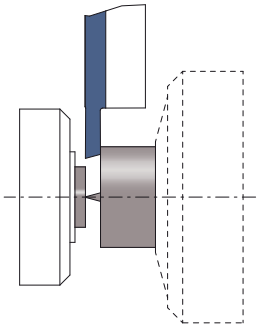
Cut R





R (L)	L (R)
Coupe à gauche déportée Versetztes Linksschneiden Left cut off line	Coupe à droite déportée Versetztes Rechtsschneiden Right cut off line

E	L	R	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	KST	KN (µk10-20)
				P M N S	P M N	P S	P M N S	P M N	P N S		P M N S	P M N	P S	P M N S	P M N	P N S	P M N S	P M N S
1.0	5	0.03	-							731RX12-1.0	●	●	●				●	●
1.5	7	0.03	741LX12-1.5	●	●	●				731RX12-1.5	●	●	●	●	●	●	●	●



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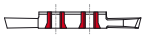
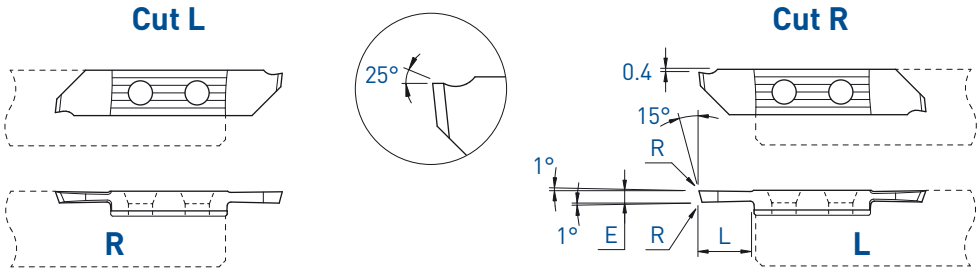


Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

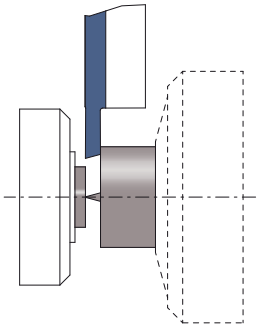
Tronçonnage
Abstechen
Parting off

Coupe déportée
Versetztes Schneiden
Cut off line

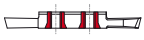
741LX25 / 731RX25



	R (L) Coupe à gauche déportée Versetztes Linksschneiden Left cut off line					L (R) Coupe à droite déportée Versetztes Rechtsschneiden Right cut off line				
E	L	R	Art. N°	TiAlN	TiN	N (µk20)	Art. N°	TiAlN	TiN	N (µk20)
1.5	7	0.03	**741LX25-1.5**	●	●	●	**731RX25-1.5**	●	●	●



7XX-XX-B



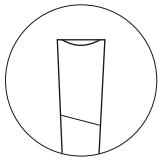
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

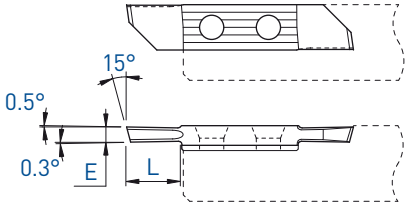
731RU

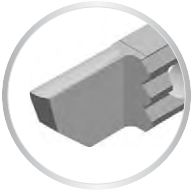
Coupe déportée
Versetztes Schneiden
Cut off line

Tronçonnage
Abstechen
Parting off

Cut R



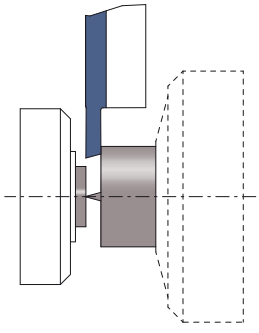




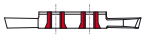
L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

E	L	Art. N°	TiAlN (P M N S)	TiN (P M N)	N (μk20) (P S)	HTA (P M N S)	HTiN (P M N)	HN (μk10) (P N S)
1.0	5	**731RU-1.0**	●		●			
1.2	5	**731RU-1.2**	●		●			
1.5	7	**731RU-1.5**	●		●	●		●
2.0	7	**731RU-2.0**	●		●			



7XX-XX-B



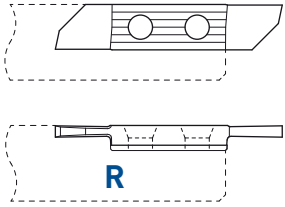
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

Tronçonnage
Abstechen
Parting off

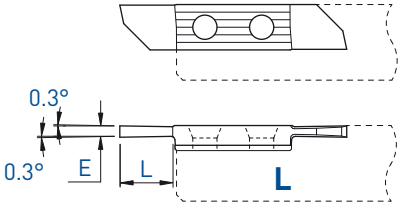
Coupe déportée
Versetztes Schneiden
Cut off line

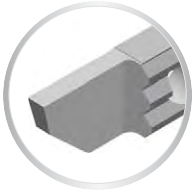
741N / 731N

Cut L

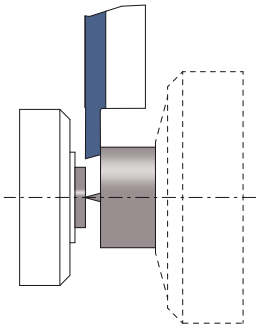


Cut R





		R (L) Coupe à gauche déportée Versetztes Linksschneiden Left cut off line							L (R) Coupe à droite déportée Versetztes Rechtsschneiden Right cut off line						
E	L	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)
1.0	5	**741N-1.0**	●	●	●	●		●	**731N-1.0**	●	●	●	●		●
1.5	7	**741N-1.5**	●	●	●	●		●	**731N-1.5**	●	●	●	●		●



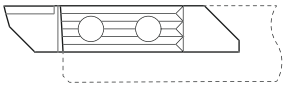
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

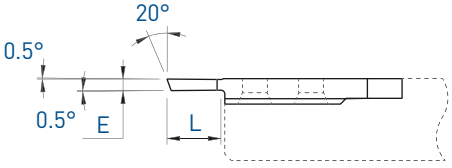
731R-PCD

Coupe déportée
Versetztes Schneiden
Cut off line

Tronçonnage
Abstechen
Parting off

Cut R



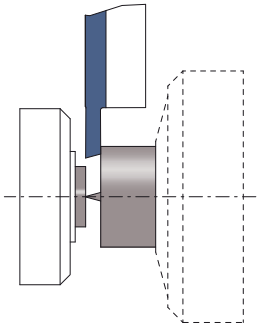


L (R)

Coupe à droite déportée
Versetztes Linksschneiden
Left cut off line

E	L	Art. N°	PCD
0.8	5	**731R-0.8**	●
1.0	5	**731R-1.0**	●
1.2	5	**731R-1.2**	●
1.5	7	**731R-1.5**	●
2.0	7	**731R-2.0**	●
2.5	7	**731R-2.5**	●

Uniquement 1 arête de coupe
Nur 1 Schneidekante
Only 1 cutting edge



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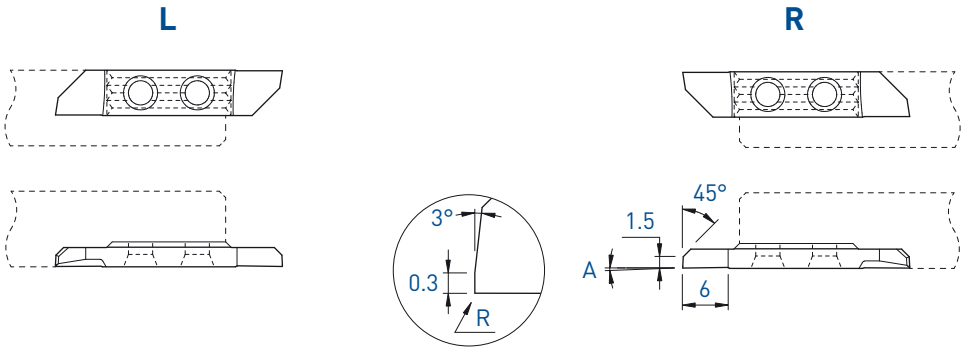
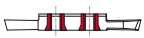
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

Tournage avant
Vorwärts drehen
Front turning



L									R									
A	R	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiAlX	TiN	N (µk20)	HTA	HTiN	HN (µk10)	KST	KN (µk10-20)
0°	0	**732**	●	●	●	●	●	●	**742**	●	●	●	●	●	●	●		
2°	0	**732-2°**	●	●	●	●		●	**742-2°**	●	●	●	●	●	●	●	●	●
2°	0.08								**742-2°-R08**	●	●	●	●	●	●	●		

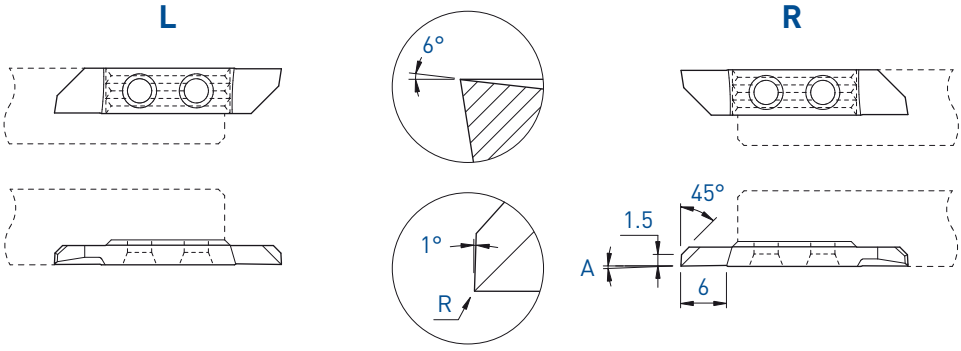
7XX-XX-B



Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

732PX / 742PX

Tournage avant
Vorwärts drehen
Front turning



L						R				
A	R	Art. N°	P M N S	P M N	P S	Art. N°	P M N S	P M N	P S	
			TiAlN	TiN	N (µk20)		TiAlN	TiN	N (µk20)	
0°	0	732PX	●	●	●	742PX	●	●	●	

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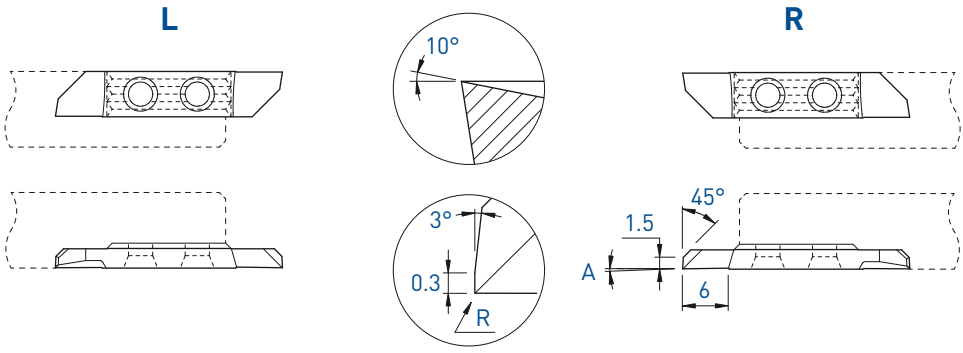
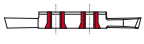
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

Tournage avant
Vorwärts drehen
Front turning

732X / 742X



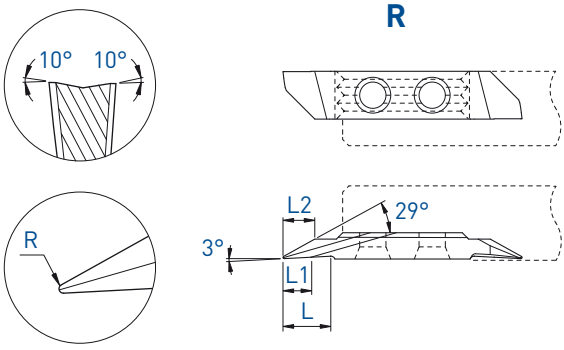
L									R									
A	R	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiAlX	TiN	N (µk20)	HTA	HTiN	HN (µk10)	KST	KN (µk10-20)
0°	0	**732X**	●	●	●	●	●	●	**742X**	●	●	●	●	●	●	●	●	●
2°	0								**742X-2°**	●	●	●	●	●	●	●		
2°	0.08								**742X-2°-R08**	●	●	●	●	●	●	●		

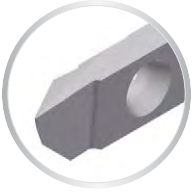


Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

742VUX

Tournage avant
Vorwärts drehen
Front turning

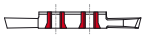




R

L	L1	L2	R	Art. N°	KST	KN (µk10-20)
6	3.5	4.2	0.08	**742VUX10-29°-R08**	●	●
6	3.5	4	0.15	**742VUX10-29°-R15**	●	●

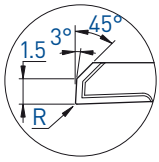
7XX-XX-B

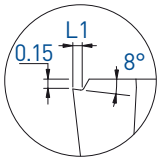


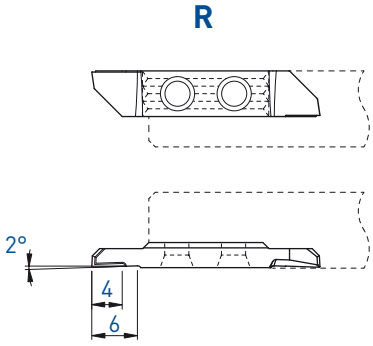
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

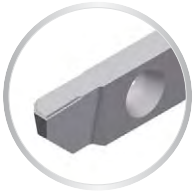
Tournage avant
Vorwärts drehen
Front turning

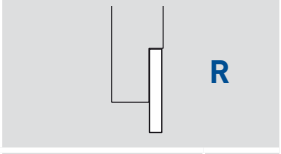
742ZF-X





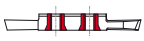






L1	R	Art. N°	KCRF N S	KN (μk10-20) P M N S
0.12	0.03	**742ZF-X812-R03**	●	●
0.24	0.03	**742ZF-X824-R03**	●	●
0.36	0.08	**742ZF-X836-R08**	●	●

7XX-XX-B

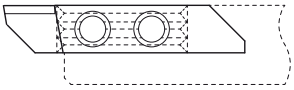


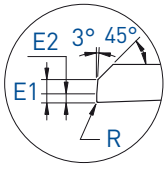
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

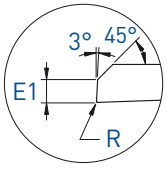
742-PCD

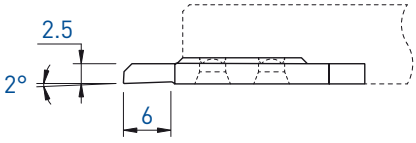
Tournage avant
Vorwärts drehen
Front turning

R





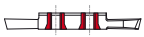




E1	E2	R	Art. N°	PCD
1.5	0.3	0	**742-2°**	●
1.5	-	0.08	**742-2°-R08**	●
1.5	-	0.15	**742-2°-R15**	●
1.5	-	0.20	**742-2°-R20**	●

Uniquement 1 arête de coupe
Nur 1 Schneidekante
Only 1 cutting edge

7XX-XX-B

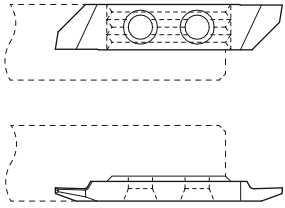


Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

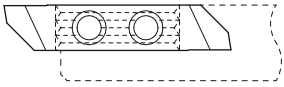
Tournage arrière
Rückwärts drehen
Back turning

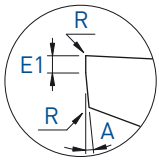
733 / 743

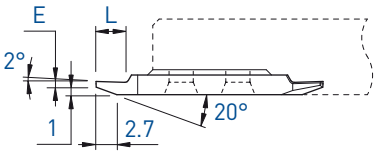
L

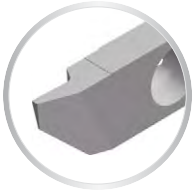


R









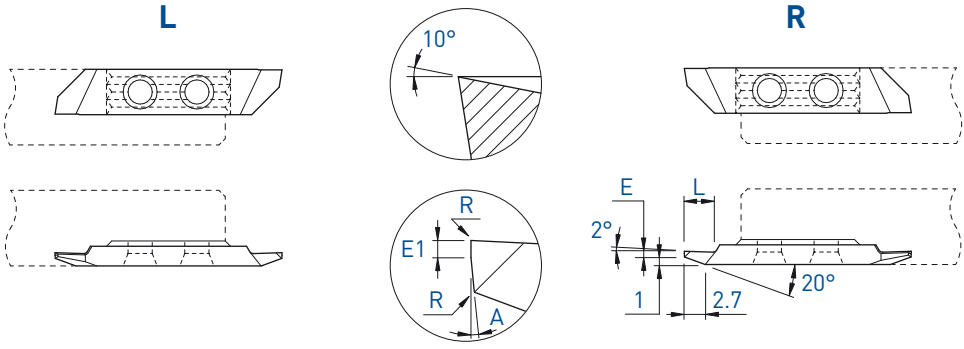
L												R								
E	E1	A	L	R	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiAlX	TiN	N (µk20)	HTA	HTiN	HN (µk10)
0.5	0.25	3°	3	0	**733-0.5**	●	●	●	●		●	**743-0.5**	●	●	●	●	●	●	●
0.5	-	2°	3	0.08	**733-0.5-R08**	●	●	●	●		●	**743-0.5-R08**	●		●	●	●		●
0.8	0.30	3°	4	0	**733-0.8**	●	●	●				**743-0.8**	●	●	●	●	●		●
1.0	0.40	3°	4	0	**733-1.0**	●	●	●	●		●	**743-1.0**	●		●	●	●		●
1.2	0.50	3°	5	0	**733-1.2**	●	●	●	●		●	**743-1.2**	●		●	●	●		●
1.5	0.50	3°	6	0	**733-1.5**	●	●	●	●		●	**743-1.5**	●		●	●	●		●

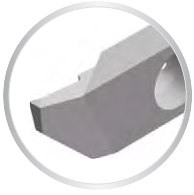
7XX-XX-B

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

733X / 743X

Tournage arrière
Rückwärts drehen
Back turning





L											R								
E	E1	A	L	R	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiAlX	TiN	N (µk20)	HTA	HTAX	HTiN	HN (µk10)
0.5	0.25	3°	3	0	**733X-0.5**	●	●	●	●		●	**743X-0.5**	●	●	●	●	●	●	●	●
0.5	-	2°	3	0.08	**733X-0.5-R08**	●	●	●				**743X-0.5-R08**	●	●	●	●	●			●
0.8	0.30	3°	4	0	**733X-0.8**	●	●	●				**743X-0.8**	●		●	●	●		●	●
1.0	0.40	3°	4	0	**733X-1.0**	●	●	●				**743X-1.0**	●		●	●	●			●
1.2	0.50	3°	5	0	**733X-1.2**	●	●	●				**743X-1.2**	●		●	●	●			●
1.5	0.50	3°	6	0	**733X-1.5**	●	●	●				**743X-1.5**	●		●	●	●			●

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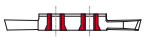
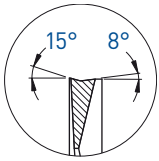
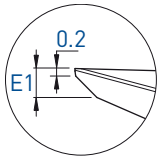


Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

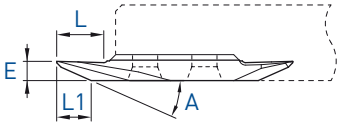
Tournage arrière
Rückwärts drehen
Back turning

743VUX8





R



R

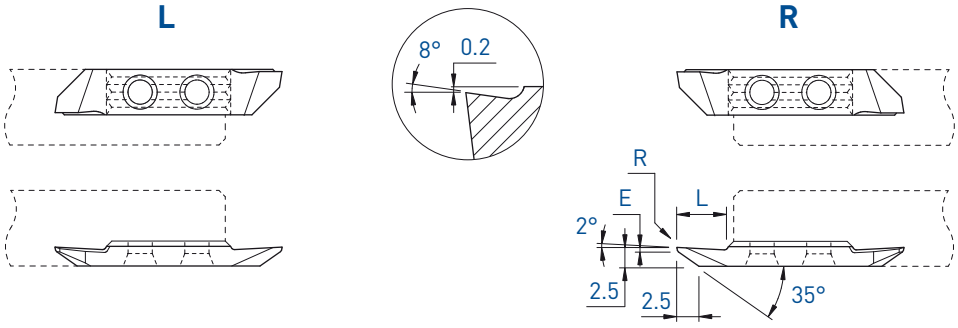
E	E1	A	L	L1	Art. N°	TiAlN	TiALX	TiN	N (µK20)	HTA	HTAX	HTiN	HN (µK10)	KST	KN (µK10-20)
						P M N S	P M S	P M N	P S	P M N S	P M S	P M N	P N S	P M N S	P M N S
1.5	0.75	24°	3	2.3	**743VUX8-0.2-1.5**	●	●		●	●	●		●	●	●
2.5	0.75	24°	6	4.4	**743VUX8-0.2-2.5**	●	●		●	●	●		●	●	●

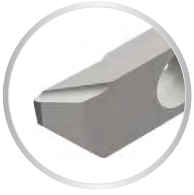
7XX-XX-B

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

733VX-8° / 743VX-8°

Tournage arrière
Rückwärts drehen
Back turning



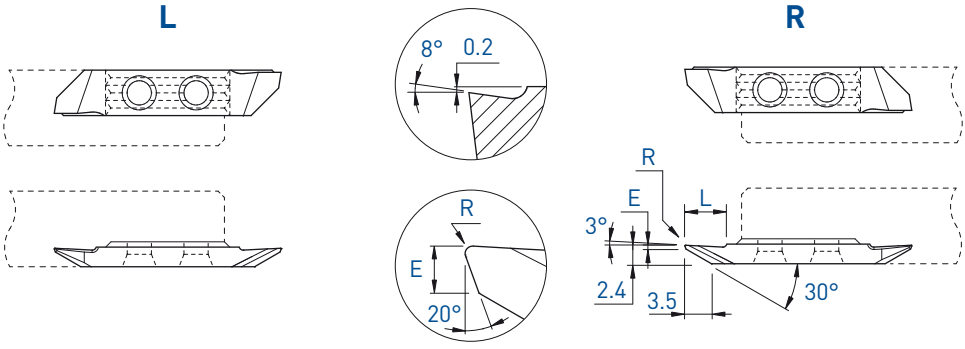


L										R									
E	L	R	Art. N°	P M N S TiAlN	P M N TiN	P S N (µK20)	P M N S HTA	P M N HTiN	P N S HN (µK10)	Art. N°	P M N S TiAlN	P M N TiN	P S N (µK20)	P M N S HTA	P M N HTiN	P N S HN (µK10)	P M N S KST	P M N KN (µK10-20)
1.0	6.5	0	**733VX-8°**	●	●	●	●	●	●	**743VX-8°**	●	●	●	●	●	●		
1.0	6.5	0.08	**733VX-8°-R08**	●	●	●	●		●	**743VX-8°-R08**	●	●	●	●		●	●	●

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

Tournage arrière
Rückwärts drehen
Back turning

733VX-805 / 743VX-805



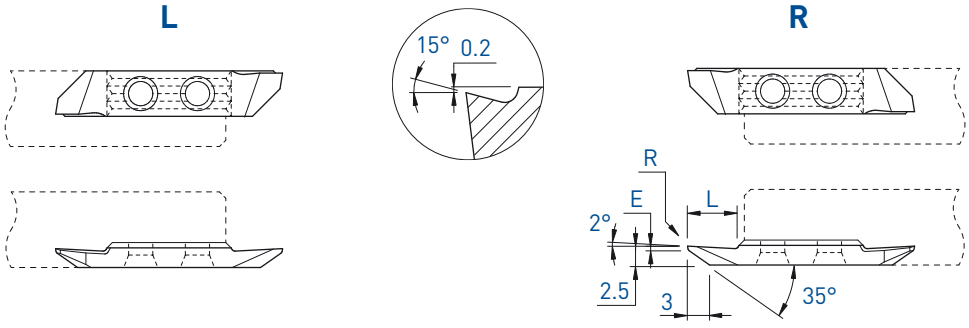
L										R									
E	L	R	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	KST	KN (µk10-20)
0.5	6	0.08	**733VX-805-R08**	●		●	●		●	**743VX-805-R08**	●	●	●	●		●	●	●

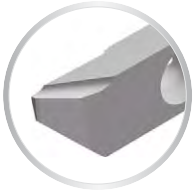
7XX-XX-B

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

733VX-15° / 743VX-15°

Tournage arrière
Rückwärts drehen
Back turning



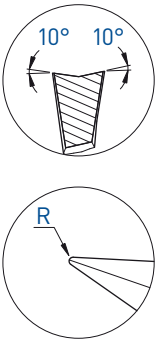


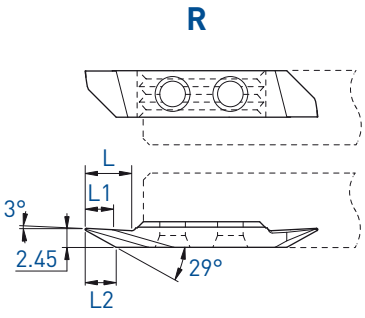
L										R								
E	L	R	Art. N°	P M N S TiAlN	P M N TiN	P S N (µk20)	P M N S HTA	P M N HTiN	P N S HN (µk10)	Art. N°	P M N S TiAlN	P M N TiN	P S N (µk20)	P M N S HTA	P M N HTiN	P N S HN (µk10)
0.6	6.5	0	**733VX-15°**	●	●	●	●		●	**743VX-15°**	●	●	●	●		●
0.6	6.5	0.08	**733VX-15°-R08**	●	●	●				**743VX-15°-R08**	●	●	●	●		●

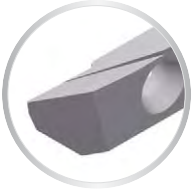
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

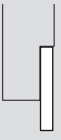
Tournage arrière
Rückwärts drehen
Back turning

743VUX









R

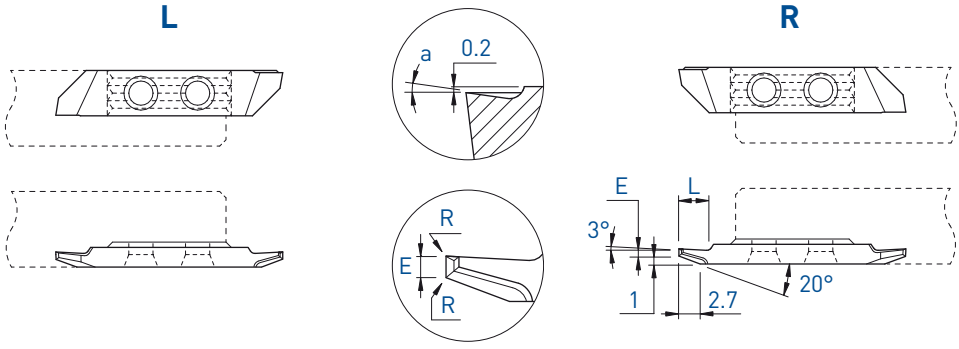
L	L1	L2	R	Art. N°	KST	KN (µk10-20)
6	3.5	4	0.08	**743VUX10-29°-R08**	●	●
6	3.5	4	0.15	**743VUX10-29°-R15**	●	●

7XX-XX-B

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

733ZX / 743ZX

Tournage arrière
Rückwärts drehen
Back turning



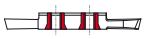
Pour un meilleur contrôle des copeaux
Für eine bessere Spankontrolle
For a better chip-control

				L							R						
a	E	L	R	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)
10°	1.0	4	0.01	**733ZX10-1.0**	●						**743ZX10-1.0**	●			●		
	1.0	4	0.08	**733ZX10-1.0-R08**	●						**743ZX10-1.0-R08**	●			●		

Arête de coupe honée
Gehonte Schneidkante
Honed edge

f min: 0.02 mm/U

7XX-XX-B

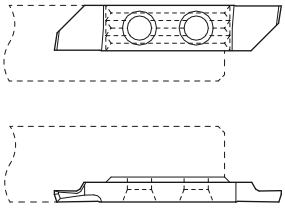


Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

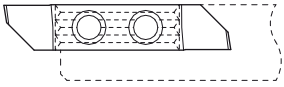
Tournage arrière / pré-coupe
Rückwärts drehen / vorstechen
Back turning / pre-parting off

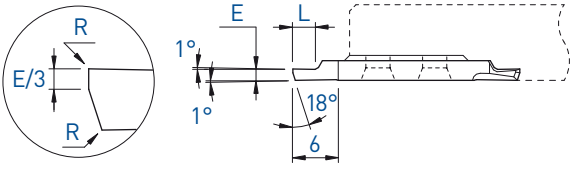
733P / 743P

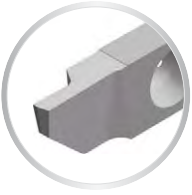
L



R

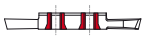






L										R									
E	L	R	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)
0.8	2	0	**733P-0.8**	●	●	●				**743P-0.8**	●	●	●	●		●
1.0	2	0	**733P-1.0**	●	●	●				**743P-1.0**	●	●	●			
1.2	2.5	0	**733P-1.2**	●	●	●				**743P-1.2**	●	●	●			
1.5	3	0	**733P-1.5**	●	●	●				**743P-1.5**	●	●	●			

7XX-XX-B

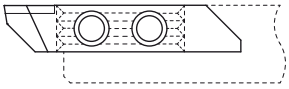


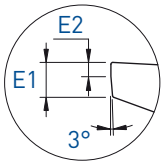
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

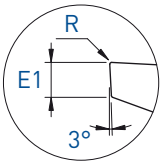
743-PCD

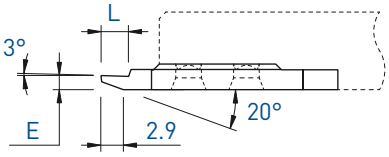
Tournage arrière
Rückwärts drehen
Back turning

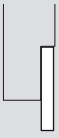
R











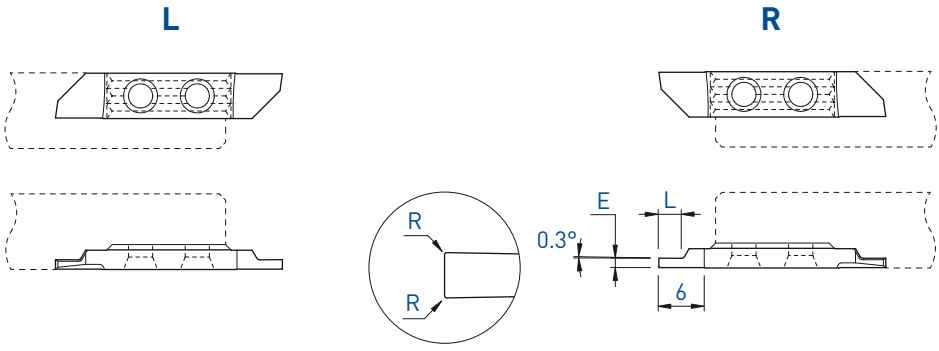
R

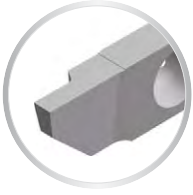
E	E1	E2	L	R	Art. N°	PCD
1.5	0.5	0.15	3	0	**743-0.5**	●
1.5	0.5	-	3	0.08	**743-0.5-R08**	●
1.8	0.8	0.25	4	0	**743-0.8**	●
1.8	0.8	-	4	0.08	**743-0.8-R08**	●
2.0	1	0.30	4	0	**743-1.0**	●
2.0	1	-	4	0.08	**743-1.0-R08**	●
2.2	1.2	0.35	5	0	**743-1.2**	●
2.2	1.2	-	5	0.08	**743-1.2-R08**	●
2.5	1.5	0.45	6	0	**743-1.5**	●
2.5	1.5	-	6	0.08	**743-1.5-R08**	●

Uniquement 1 arête de coupe
Nur 1 Schneidekante
Only 1 cutting edge

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

Fonçage-tournage
Einstechen und drehen
Grooving and turning

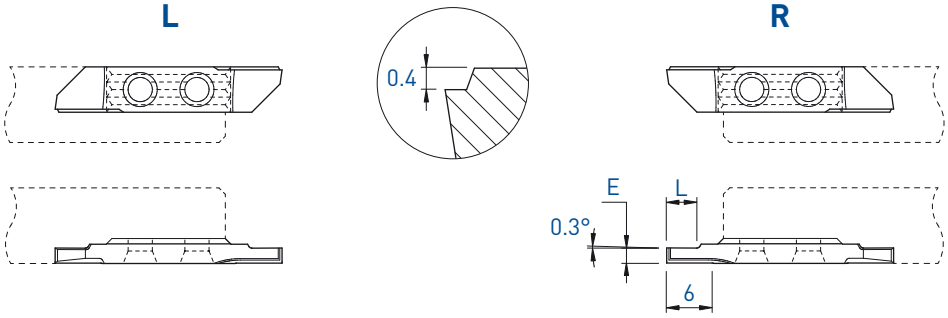


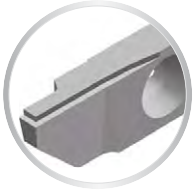


L										R											
				P M N S	P M N	P S	P M N S	P M	P N S		P M N S	P M S	P M N	P S	P M N S	P M S	P M N	P N S	P M N S	P M N S	
E	L	R	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiAlX	TiN	N (µk20)	HTA	HTAX	HTiN	HN (µk10)	KST	KN (µk10-20)	
0.5	1.5	0	**734-0.5**	●	●	●	●		●	**744-0.5**	●	●	●	●	●	●	●	●	●	●	
0.6	1.8	0	**734-0.6**	●	●	●	●		●	**744-0.6**	●	●	●	●	●	●	●	●	●	●	
0.75	2	0	**734-0.75**	●	●	●				**744-0.75**	●	●	●	●	●	●	●	●	●	●	
0.8	2	0	**734-0.8**	●	●	●	●		●	**744-0.8**	●	●	●	●	●	●	●	●	●	●	
0.8	2	0.08	-							**744-0.8-R08**	●	●	●	●	●	●		●	●	●	
0.9	2.5	0	-							**744-0.9**	●	●	●	●	●	●		●			
0.95	3	0	**734-0.95**	●	●	●				**744-0.95**	●	●	●	●	●	●		●			
1.0	2.5	0	**734-1.0**	●	●	●	●	●	●	**744-1.0**	●	●	●	●	●	●	●	●	●	●	
1.0	2.5	0.08	**734-1.0-R08**	●	●	●	●	●	●	**744-1.0-R08**	●	●	●	●	●	●		●			
1.2	3	0	**734-1.2**	●	●	●	●		●	**744-1.2**	●	●	●	●	●	●	●	●			
1.5	3	0	**734-1.5**	●	●	●	●	●	●	**744-1.5**	●	●	●	●	●	●	●	●	●	●	
1.5	3	0.08	**734-1.5-R08**	●	●	●	●		●	**744-1.5-R08**	●	●	●	●	●	●	●	●	●	●	
1.5	3	0.15	-							**744-1.5-R15**	●	●		●	●	●		●			
1.5	3	0.20	-							**744-1.5-R20**	●	●	●	●	●	●		●			
1.8	4	0	**734-1.8**	●	●	●	●		●	**744-1.8**	●	●	●	●	●	●		●			
2.0	4	0	**734-2.0**	●	●	●	●		●	**744-2.0**	●	●	●	●	●	●		●			
2.0	4	0.08	**734-2.0-R08**	●	●	●	●		●	**744-2.0-R08**	●	●	●	●	●	●		●			
2.0	4	0.15	-							**744-2.0-R15**	●	●		●	●	●		●			
2.0	4	0.20	-							**744-2.0-R20**	●	●	●	●	●	●		●			
2.5	6	0	**734-2.5**	●	●	●				**744-2.5**	●	●	●	●	●	●		●			

734VS / 744VS

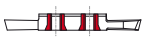
Fonçage-tournage
Einstechen und drehen
Grooving and turning





L										R							
E	L	Art. N°	P M N S TiAlN	P M N TiN	P S N (µk20)	P M N S HTA	P M N HTiN	P N S HN (µk10)		Art. N°	P M N S TiAlN	P M N TiN	P S N (µk20)	P M N S HTA	P M N HTiN	P N S HN (µk10)	
1.0	2	**734VS-1.0**	●	●	●	●	●	●		**744VS-1.0**	●	●	●	●		●	
1.2	2.5	**734VS-1.2**	●	●	●	●	●	●		**744VS-1.2**	●	●	●	●		●	
1.5	3	**734VS-1.5**	●	●	●	●	●	●		**744VS-1.5**	●	●	●	●		●	
1.8	4	**734VS-1.8**	●	●	●	●	●	●		**744VS-1.8**	●	●	●				
2.0	4	**734VS-2.0**	●	●	●	●	●	●		**744VS-2.0**	●	●	●	●		●	
2.5	6	**734VS-2.5**	●	●	●	●	●	●		**744VS-2.5**	●	●	●				

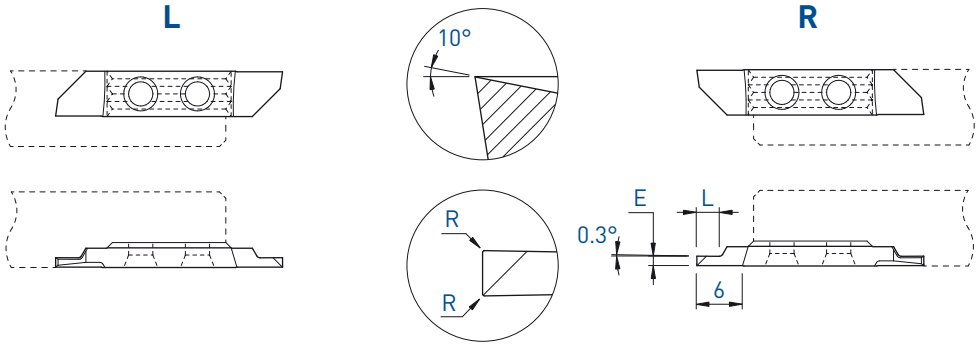
7XX-XX-B

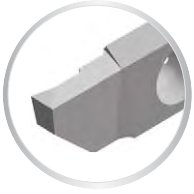


Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

Fonçage-tournage
Einstechen und drehen
Grooving and turning

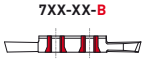
734X / 744X





L **R**

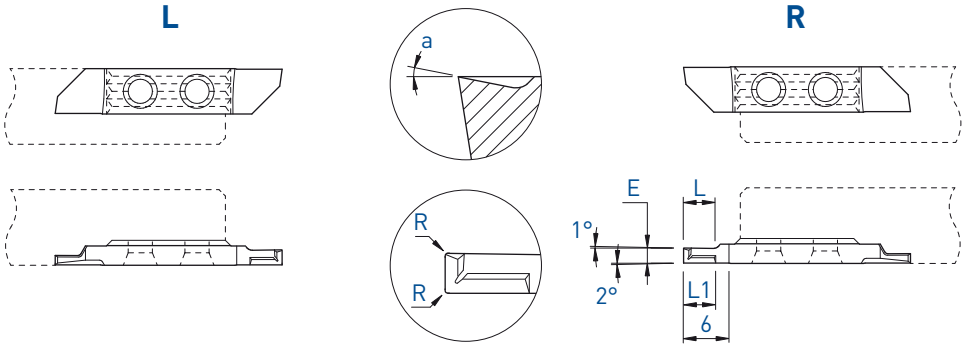
E	L	R	Art. N°	TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)	Art. N°	ST	TiAlN	TiAlX	TiN	N (µK20)	HTA	HTAX	HTiN	HN (µK10)	KST	KN (µK10-20)
				P M N S	P M N	P S	P M N S	P M N	P N S		P M N S	P M N S	P M N S	P M N	P S	P M N S	P M S	P M N	P N S	P M N S	P M N S
0.5	2	0								744X-0.5										●	●
0.8	2	0	734X-0.8	●	●	●	●		●	744X-0.8		●	●	●	●	●	●	●	●	●	●
1.0	2.5	0	734X-1.0	●	●	●	●		●	744X-1.0		●	●	●	●	●	●	●	●	●	●
1.0	2.5	0.08	734X-1.0-R08	●	●	●	●		●	744X-1.0-R08	●	●	●	●	●	●	●		●	●	●
1.2	3	0	734X-1.2	●	●	●	●		●	744X-1.2		●	●	●	●	●	●		●	●	●
1.5	3	0	734X-1.5	●	●	●	●	●	●	744X-1.5		●	●	●	●	●	●	●	●	●	●
1.5	3	0.08	734X-1.5-R08	●	●	●	●		●	744X-1.5-R08	●	●	●	●	●	●	●		●	●	●
1.5	3	0.15	-							744X-1.5-R15	●	●	●	●	●	●	●	●	●		
1.5	3	0.20	-							744X-1.5-R20	●	●	●	●	●	●	●		●		
1.8	4	0	734X-1.8	●	●	●				744X-1.8		●	●	●	●	●	●		●		
2.0	4	0	734X-2.0	●	●	●	●		●	744X-2.0		●	●	●	●	●	●	●	●	●	●
2.0	4	0.08	734X-2.0-R08	●	●	●	●		●	744X-2.0-R08	●	●	●	●	●	●	●	●	●		
2.0	4	0.15	-							744X-2.0-R15	●	●	●	●	●	●	●		●		
2.0	4	0.20	734X-2.0-R20	●	●	●	●	●	●	744X-2.0-R20	●	●	●	●	●	●	●		●	●	●
2.5	6	0	734X-2.5	●	●	●	●		●	744X-2.5		●	●	●	●	●	●		●		●

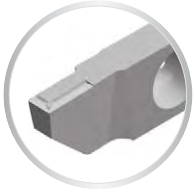


Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

734ZX / 744ZX

Fonçage-tournage
Einstechen und drehen
Grooving and turning



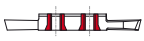


Pour un meilleur contrôle des copeaux
Für eine bessere Spankontrolle
For a better chip-control

					L								R							
a	E	L	L1	R	Art. N°	TiAlN	TiN	N (µK20)	HTA	HTiN	HAC	HN (µK10)	Art. N°	TiAlN	TiAlX	TiN	N (µK20)	HTA	HTiN	HAC	HN (µK10)
10°	1.0	2.5	3	0.01	**734ZX10-1.0**	●	●						**744ZX10-1.0**	●	●	●		●			
	1.5	4	4	0.01	**734ZX10-1.5**	●	●						**744ZX10-1.5**	●	●			●	●		
	1.5	4	4	0.08	**734ZX10-1.5-R08**	●	●						**744ZX10-1.5-R08**	●	●	●		●			
	2.0	4	4	0.01	**734ZX10-2.0**	●	●						**744ZX10-2.0**	●	●			●			
	2.0	4	4	0.08	**734ZX10-2.0-R08**	●	●						**744ZX10-2.0-R08**	●	●			●			
	2.5	6	4	0.01	**734ZX10-2.5**	●	●						**744ZX10-2.5**	●	●			●			
	2.5	6	4	0.08	-								**744ZX10-2.5-R08**	●	●			●			
17°	1.0	2.5	3	0.01	-								**744ZX17-1.0**					●		●	

Arête de coupe honée
Gehonte Schneidkante
Honed edge

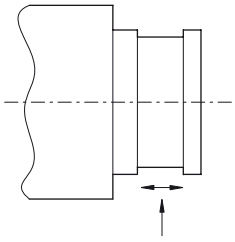
f min: 0.02 mm/U

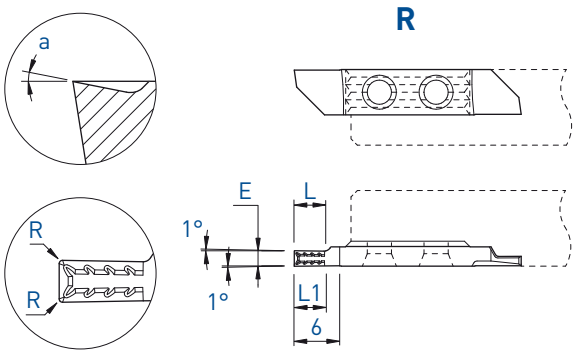


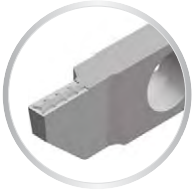
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

Fonçage-tournage
Einstechen und drehen
Grooving and turning

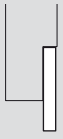
744ZXT







Pour un meilleur contrôle des copeaux
Für eine bessere Spankontrolle
For a better chip-control

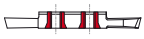


R

a	E	L	L1	R	Art. N°	ST	TiAlN	TiAlX	TiN	N (µK20)	HTA	HTiN	HN (µK10)	KST	KN (µK10-20)
	1.0	2.5	2.5	0.01	**744ZXT10-1.0**	●	●	●	●		●			●	●
	1.5	4	4	0.01	**744ZXT10-1.5**	●	●	●			●			●	●
	1.5	4	4	0.08	**744ZXT10-1.5-R08**	●	●	●	●		●			●	●
10°	2.0	4	4	0.01	**744ZXT10-2.0**	●	●	●			●			●	●
	2.0	4	4	0.08	**744ZXT10-2.0-R08**	●	●	●			●			●	●
	2.5	5	5	0.01	**744ZXT10-2.5**	●	●	●			●			●	●
	2.5	5	5	0.08	**744ZXT10-2.5-R08**	●	●	●			●			●	●

Arête de coupe honée
Gehonte Schneidkante
Honed edge

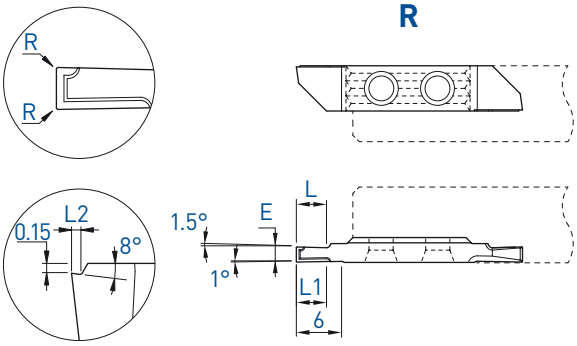
f min: 0.02 mm/U

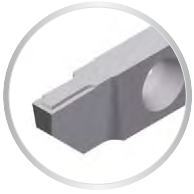


Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

744ZF-X

Fonçage-tournage
Einstechen und drehen
Grooving and turning

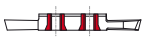




R

E	L	L1	L2	R	Art. N°	KCRF N S	KN (µK10-20) P M N S
1.0	2.5	2	0.12	0.03	**744ZF-X812-1.0-R03**	●	●
	2.5	2	0.24	0.03	**744ZF-X824-1.0-R03**	●	●
1.5	3	2.5	0.12	0.03	**744ZF-X812-1.5-R03**	●	●
	3	2.5	0.24	0.03	**744ZF-X824-1.5-R03**	●	●
	3	2.5	0.36	0.08	**744ZF-X836-1.5-R08**	●	●
2.0	4	3	0.12	0.03	**744ZF-X812-2.0-R03**	●	●
	4	3	0.24	0.03	**744ZF-X824-2.0-R03**	●	●
	4	3	0.36	0.08	**744ZF-X836-2.0-R08**	●	●
2.5	6	4	0.24	0.03	**744ZF-X824-2.5-R03**	●	●
	6	4	0.36	0.08	**744ZF-X836-2.5-R08**	●	●
	6	4	0.36	0.15	**744ZF-X836-2.5-R15**	●	●

7XX-XX-B

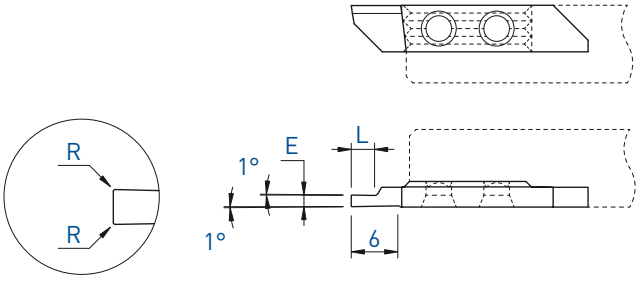


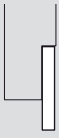
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

Fonçage-tournage
Einstechen und drehen
Grooving and turning

744-PCD

R





R

E	L	R	Art. N°	PCD
0.8	2	0	**744-0.8**	●
0.8	2	0.08	**744-0.8-R08**	●
1.0	2.5	0	**744-1.0**	●
1.0	2.5	0.08	**744-1.0-R08**	●
1.5	3	0	**744-1.5**	●
1.5	3	0.08	**744-1.5-R08**	●
1.5	3	0.15	**744-1.5-R15**	●
1.5	3	0.20	**744-1.5-R20**	●
2.0	4	0	**744-2.0**	●
2.0	4	0.08	**744-2.0-R08**	●
2.0	4	0.15	**744-2.0-R15**	●
2.0	4	0.20	**744-2.0-R20**	●
2.5	6	0	**744-2.5**	●
2.5	6	0.08	**744-2.5-R08**	●
2.5	6	0.15	**744-2.5-R15**	●
2.5	6	0.20	**744-2.5-R20**	●

Uniquement 1 arête de coupe
Nur 1 Schneidekante
Only 1 cutting edge

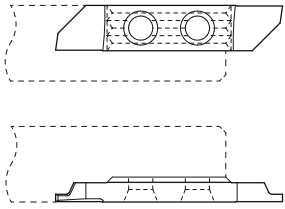
7XX-XX-B

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

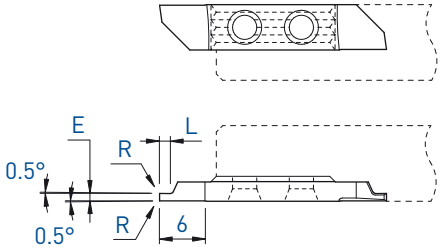
735 / 745

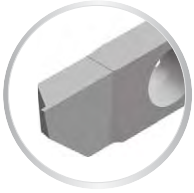
Gorges
Einstechen
Grooving

L



R





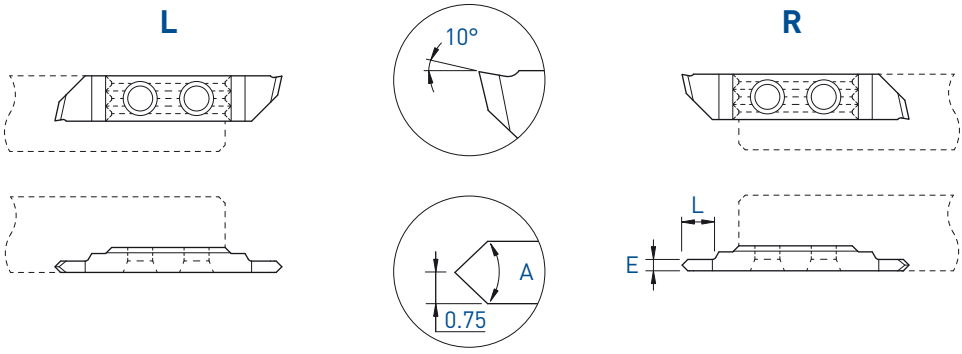
L										R									
E ± 0.01	L	R	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)
0.2	0.2	0	**735-0202**	●	●	●				**745-0202**	●	●	●	●		●
0.3	0.3	0	**735-0303**	●	●	●				**745-0303**	●	●	●	●		●
0.4	0.4	0	**735-0404**	●	●	●				**745-0404**	●	●	●	●		●

7XX-XX-B

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

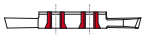
Gorges
Einstechen
Grooving

735X-90 / 745X-90



			L				R			
A	E	L	Art. N°	TiAlN	TiN	N (µk20)	Art. N°	TiAlN	TiN	N (µk20)
90°	1.5	4	**735X-90-1.5**	●		●	**745X-90-1.5**	●		●

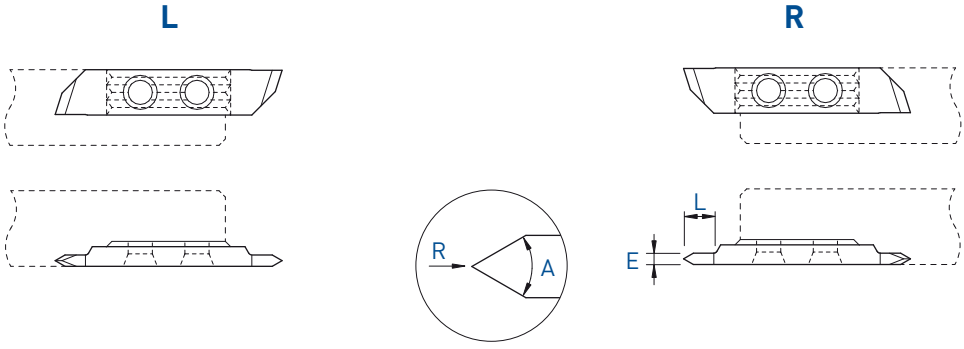
7XX-XX-B



Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

736 / 746

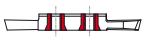
Filetage
Gewinde drehen
Threading



Profil partiel
Teilprofil
Partial profile

L											R									
A	E	L	R	Art. N°	PMNS TiAlN	PMN TiN	PS N (µk20)	PMNS HTA	PMN HTiN	PNS HN (µk10)	Art. N°	PMNS TiAlN	PMS TiN	PS N (µk20)	PMNS HTA	PMN HTiN	PNS HN (µk10)	PMNS KST	PMNS KN (µk10-20)
60°	1.5	4	0	**736-60-1.5**	●	●	●				**746-60-1.5**	●	●	●				●	●
60°	1.5	4	0.02	**736-60-1.5-R02**	●	●	●	●	●	●	**746-60-1.5-R02**	●	●	●	●		●	●	●
60°	2.0	6	0	**736-60-2.0**	●	●	●				**746-60-2.0**	●	●	●				●	●
60°	2.0	6	0.02	**736-60-2.0-R02**	●	●	●	●	●	●	**746-60-2.0-R02**	●	●	●	●	●	●		
55°	1.5	4	0	**736-55-1.5**	●	●	●				**746-55-1.5**	●	●	●					
55°	1.5	4	0.02	**736-55-1.5-R02**	●	●	●				**746-55-1.5-R02**	●	●	●					
55°	2.0	6	0	**736-55-2.0**	●	●	●				**746-55-2.0**	●	●	●					
55°	2.0	6	0.02	**736-55-2.0-R02**	●	●	●				**746-55-2.0-R02**		●	●					●

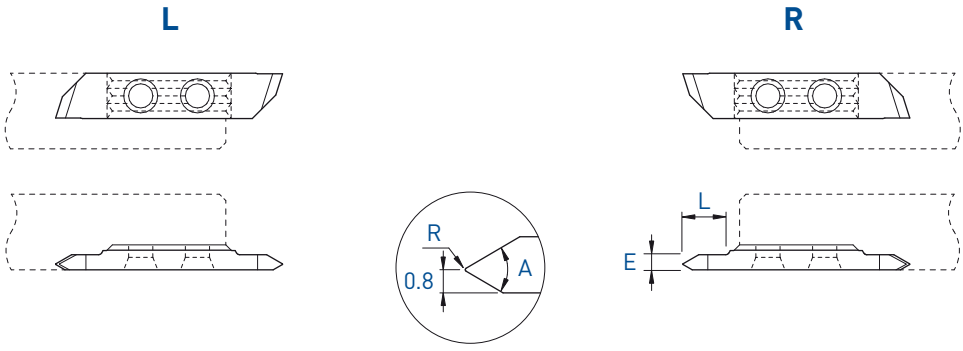
7XX-XX-B



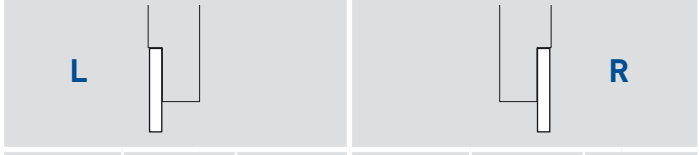
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

Filetage
Gewinde drehen
Threading

736-A60° / 746-A60°



Profil partiel
Teilprofil
Partial profile

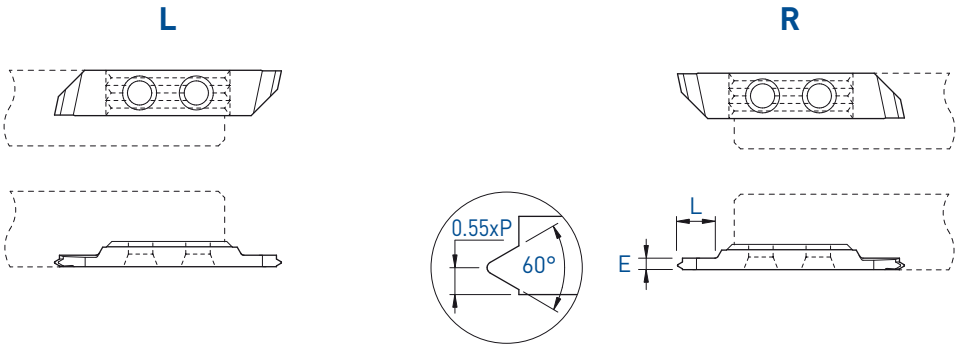


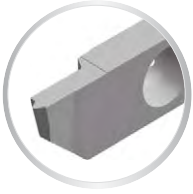
A	E	L	R	Pas Steigung Pitch P	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)
						P M N S	P M N	P	P M N S	P M N	P N S		P M N S	P M N	P	P M N S	P M N	P N S
60°	2.0	6	0.06	0.50-1.50	**736-A60°**	●	●	●				**746-A60°**	●	●	●	●		●

Plaquettes de filetage avec coupe positive 2°, voir page 1.157
WSP Gewindedrehen mit positivem Schnitt 2°, siehe Seite 1.157
Threading inserts with positive cut 2°, see page 1.157

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

736-M / 746-M



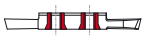


Profil complet métrique
Metrisches Vollprofil
Metric full profile

Pas Steigung Pitch P	E	L	L Art. N°	L TiAlN	L TiN	L N (µk20)	R Art. N°	R TiAlN	R TiN	R N (µk20)
0.25	1.0	3	**736-M-0.25**	●	●	●	**746-M-0.25**	●	●	●
0.30	1.0	3	**736-M-0.30**	●	●	●	**746-M-0.30**	●	●	●
0.35	1.0	3	**736-M-0.35**	●	●	●	**746-M-0.35**	●	●	●
0.40	1.0	3	**736-M-0.40**	●	●	●	**746-M-0.40**	●	●	●
0.45	1.0	3	**736-M-0.45**	●	●	●	**746-M-0.45**	●	●	●
0.50	1.0	3	**736-M-0.50**	●	●	●	**746-M-0.50**	●	●	●
0.60	1.0	3	**736-M-0.60**	●	●	●	**746-M-0.60**	●	●	●
0.70	1.0	3	**736-M-0.70**	●	●	●	**746-M-0.70**	●	●	●
0.75	1.0	3	**736-M-0.75**	●	●	●	**746-M-0.75**	●	●	●
0.80	1.5	4.5	**736-M-0.80**	●	●	●	**746-M-0.80**	●	●	●
1.00	1.5	4.5	**736-M-1.00**	●	●	●	**746-M-1.00**	●	●	●
1.25	1.5	4.5	**736-M-1.25**	●	●	●	**746-M-1.25**	●	●	●
1.50	2.0	6	**736-M-1.50**	●	●	●	**746-M-1.50**	●	●	●
1.75	2.0	6	**736-M-1.75**	●	●	●	**746-M-1.75**	●	●	●

Plaquettes de filetage avec coupe positive 2°, voir page 1.158
WSP Gewindedrehen mit positivem Schnitt 2°, siehe Seite 1.158
Threading inserts with positive cut 2°, see page 1.158

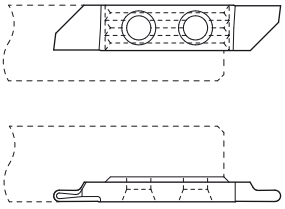
7XX-XX-B



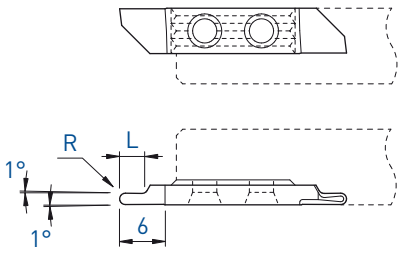
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

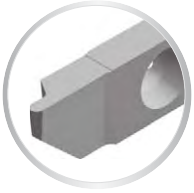
Plaquettes à rayon
Radius Wendeplatten
Radius inserts

L



R





L						R			
R	L	Art. N°	P M N S TiAlN	P M N TiN	P S N (µk20)	Art. N°	P M N S TiAlN	P M N TiN	P S N (µk20)
0.25	1.5	-				747-R0.25	●	●	●
0.40	2	-				747-R0.4	●	●	●
0.50	2.5	737-R0.5	●	●	●	747-R0.5	●	●	●
0.60	2.5	737-R0.6	●	●	●	747-R0.6	●	●	●
0.75	3	737-R0.75	●	●	●	747-R0.75	●	●	●
0.80	3	737-R0.8	●	●	●	747-R0.8	●	●	●
1.00	4	737-R1.0	●	●	●	747-R1.0	●	●	●

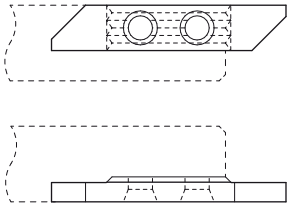
7XX-XX-B

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

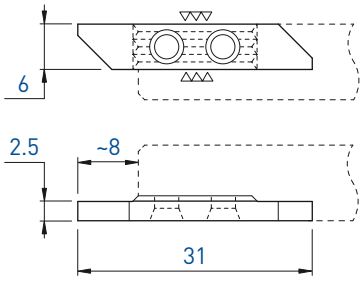
731-E / 741-E

Plaquettes ébauches
WSP-Rohlinge
Blank inserts

L



R



L			R		
Art. N°	N (µk20)	HN (µk10)	Art. N°	N (µk20)	HN (µk10)
731-E	●	●	741-E	●	●

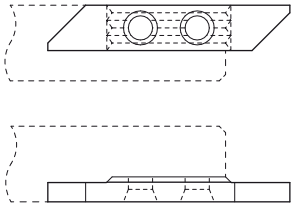
7XX-XX-B

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

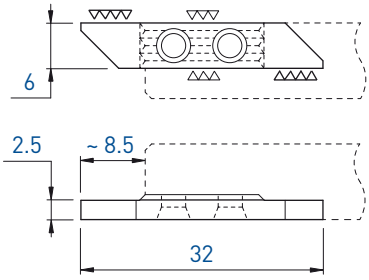
Plaquettes ébauches
WSP-Rohlinge
Blank inserts

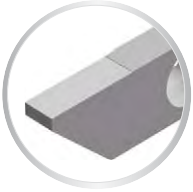
731-EP / 741-EP

L



R





Face de coupe polie
Polierte Schneidfläche
Polished cutting face

L

Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	KST	KN
	P M N S	P M N	P S	P M N S	P M N	P N S	P M N S	P M N S
731-EP	●	●	●	●	●	●	●	●

R

Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	KST	KN (µk10-20)
	P M N S	P M N	P S	P M N S	P M N	P N S	P M N S	P M N S
741-EP	●	●	●	●		●	●	●

7XX-XX-B

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

L

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	750RC	1.94
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	751-E	1.162
	751-EP	1.163
	751-R05	1.103
	751NX840	1.104
	751NXF	1.112/1.124
	751R	1.114
	751R-PCD	1.127
	751R-R05	1.116
	751RAS	1.126
	751RD	1.125
	751RS	1.115
	751RU	1.122
	751RZU	1.123
	751RX12	1.119
	751RX25	1.120
	751RX4	1.117
	751RX840	1.121
	751RXF	1.118
	751S	1.102
	751U	1.110
	751X12	1.107
	751X25	1.108
	751X4	1.105
	751XF	1.106
752	752	1.128
	752PX	1.129
	752S	1.135
	752X	1.130
753	753	1.137
	753P	1.146
	753S	1.136
	753VX-15°	1.143
	753VX-8°	1.140
	753VX-805	1.141
	753X	1.138
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	756-G60°	1.157
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	757ZX	1.161

R

Type		Page
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	760LC	1.95
761	761	1.101
	761-E	1.162
	761-EP	1.163
	761-PCD	1.113
	761-R05	1.103
	761L	1.114
	761L-R05	1.116
	761LD	1.125
	761LS	1.115
	761LX12	1.119
	761LX25	1.120
	761LX4	1.117
	761LXF	1.118
	761NXF	1.112/1.124
	761NX840	1.104
	761S	1.102
	761U	1.110
	761ZU	1.111
	761X12	1.107
	761X25	1.108
	761X4	1.105
	761X840	1.109
	761XF	1.106
	761ZU	1.111
762	762	1.128
	762PX	1.129
	762S	1.135
	762X	1.130
	762VUX	1.132
	762VX-800	1.131
	762ZF-X	1.134
	762ZX	1.133
763	763	1.137
	763P	1.146
	763S	1.136
	763VUX	1.144
	763VX-15°	1.143
	763VX-8°	1.140
	763VX-800	1.142
	763VX-805	1.141
	763X	1.138
	763XS	1.139
	763ZX	1.145
764	764	1.147
	764VS	1.148
	764X	1.149
	764X5-EP	1.150
	764X10-EP	1.151
	764ZF-X	1.155
	764ZX	1.152
	764ZXB	1.153
	764ZXT	1.154
766	766	1.156
	766-AG60°	1.157
	766-G60°	1.157
	766-M	1.158
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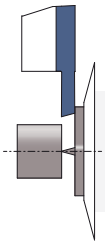
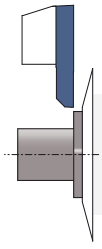
767	767	1.160
	767ZX	1.161

Index

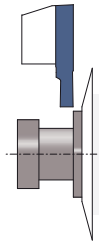
750 / 760



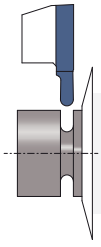
751 / 761
Tronçonnage
Abstechen
Parting off
> 1.101



752 / 762
Tournage avant
Vorwärts drehen
Front turning
> 1.128

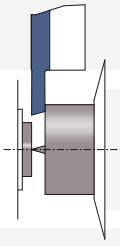


754 / 764
Fonçage-tournage
Einstechen und drehen
Grooving and turning
> 1.147

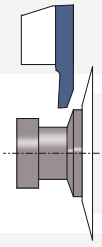


757 / 767
Plaquettes à rayon
Radius Wendeplatten
Radius inserts
> 1.160

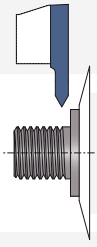
750 / 760
Porte-outils
Halter
Holders
> 1.92



761L / 751R
Tronçonnage - coupe déportée
Abstechen - versetztes Schneiden
Parting off - cut off line
> 1.114



753 / 763
Tournage arrière
Rückwärts drehen
Back turning
> 1.137

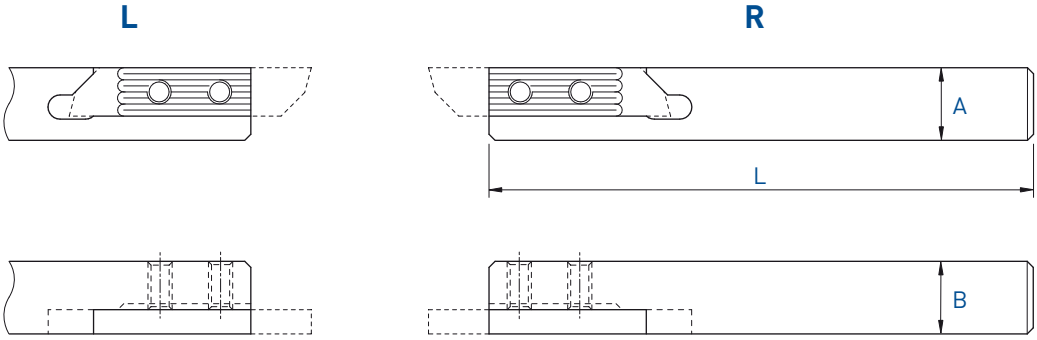


756 / 766
Filetage
Gewinde drehen
Threading
> 1.156

Plaquettes ébauches
WSP-Rohlinge
Blank inserts
> 1.162

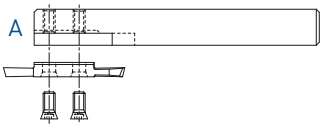
750 / 760

Porte-outils
Halter
Holders

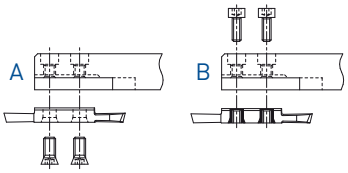


A x B	L	Serrage Spannsystem Clamping	L Art. N°	R Art. N°
10 x 10	115	A	**750-10**	**760-10**
10 x 10	115	A + B	**750-10-AB**	**760-10-AB**
10 x 10	50	A	**750-10-50**	**760-10-50**
12 x 12	130	A	**750-12**	**760-12**
12 x 12	130	A + B	**750-12-AB**	**760-12-AB**
12 x 12	90	A	**750-12-90**	**760-12-90**
12 x 12	90	A + B	**750-12-90-AB**	**760-12-90-AB**
12.7 x 12.7	130	A + B	**750-12.7**	**760-12.7**
14 x 14	130	A + B	**750-14**	**760-14**
16 x 16	130	A + B	**750-16**	**760-16**
16 x 16	75	A + B	**750-16-75**	**760-16-75**
20 x 20	120	A + B	**750-20**	**760-20**
25 x 25	140	A	**760/750-25**	

Serrage standard A
Standard Spannsystem A
Standard clamping system A



Serrage A + B
Spannsystem A + B
Clamping system A + B

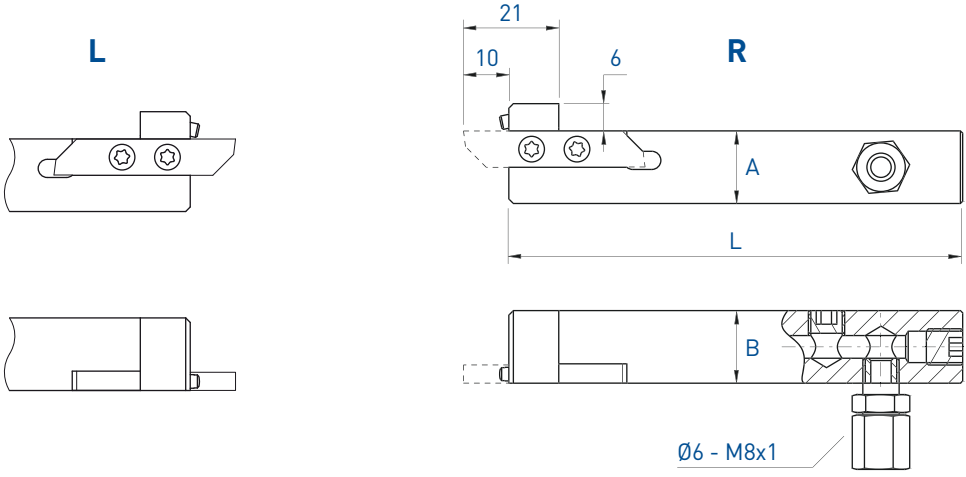


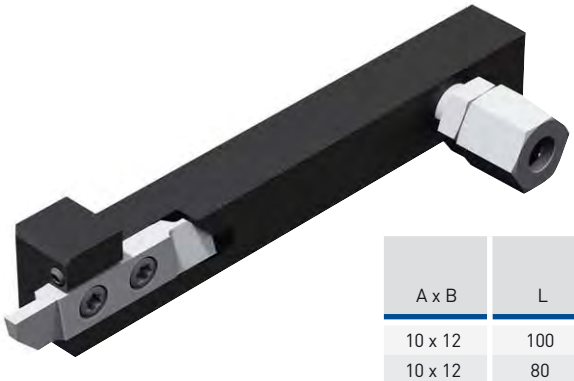
760/750-25
R + L

Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

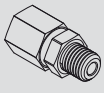
Porte-outils avec arrosage intégré
Halter mit integrierter Kühlmittelzufuhr
Holders with integrated coolant supply

750-JET / 760-JET





A x B	L	Serrage Spannsystem Clamping	L Art. N°	R Art. N°
10 x 12	100	A + B	**750-1012-JET**	**760-1012-JET**
10 x 12	80	A + B	**-**	**760-1012-80-JET**
12 x 12	100	A + B	**750-12-JET**	**760-12-JET**
12.7 x 12.7	100	A + B	**750-12.7-JET**	**760-12.7-JET**
16 x 16	100	A + B	**750-16-JET**	**760-16-JET**
20 x 20	100	A + B	**750-20-JET**	**760-20-JET**

Pièces de rechange Ersatzteile Spare parts	 Art. N°	 Art. N°	Buses Düsen Nozzles Art. N°
750-JET / 760-JET	**J-M8X1-D6**	**JB-M8X1**	**JJ-M3X6-D1.5** More option see JET-Line

Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.

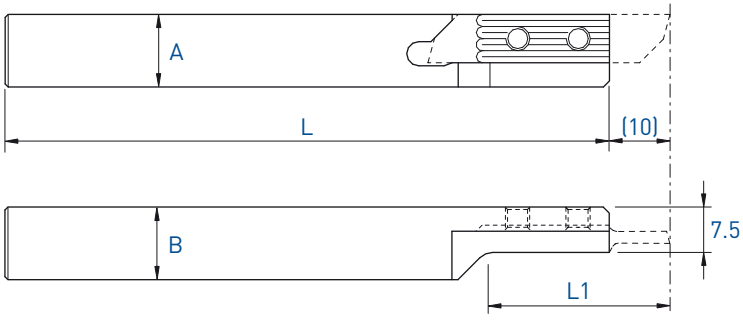
Each holder is supplied with one or more screws.
The keys must be ordered separately.

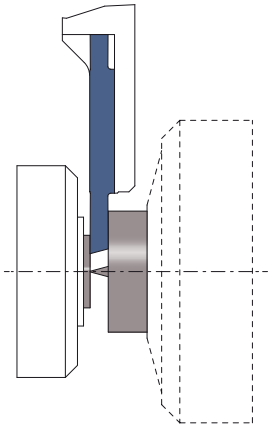
750RC

Porte-outils
Halter
Holders

Utiliser des plaquettes type 751R
WSP Typ 751R verwenden
Use inserts type 751R

Voir pages 1.114 - 1.127
Siehe Seiten 1.114 - 1.127
See pages 1.114 - 1.127

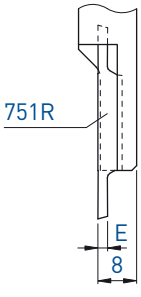


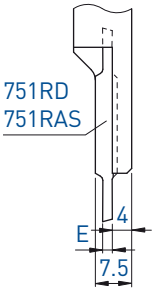


L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

A x B	L	L1	Art. N°
12 x 12	130	30	**750RC-12**
12.7 x 12.7	130	30	**750RC-12.7**
16 x 16	130	40	**750RC-16**





(p. 1.114 + 1.125 + 1.126)

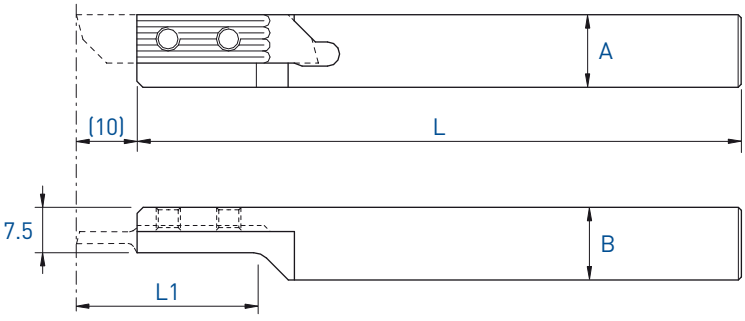
Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

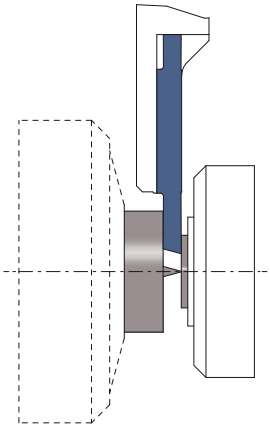
Porte-outils
Halter
Holders

760LC

Utiliser des plaquettes type 761L
WSP Typ 761L verwenden
Use insets type 761L

Voir pages 1.114 - 1.120 + 1.125
Siehe Seiten 1.114 - 1.120 + 1.125
See pages 1.114 - 1.120 + 1.125

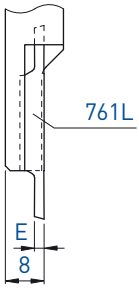


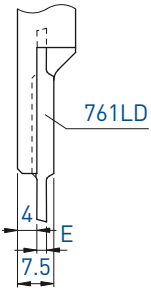


R (L)

Coupe à gauche déportée
Versetztes Linksschneiden
Left cut off line

A x B	L	L1	Art. N°
16 x 16	130	40	**760LC-16**





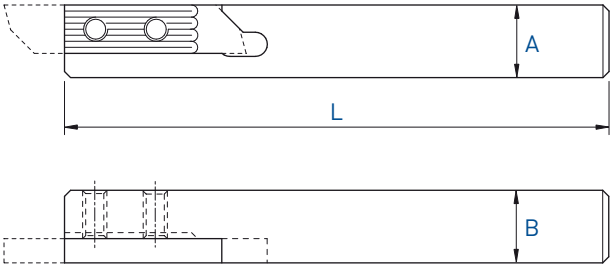
(p. 1.114)

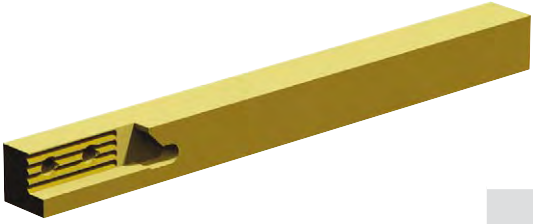
Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

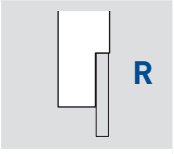
760-NOVIBRA

Porte-outils en métal lourd anti-vibratoire
Schwingungsdämpfende Schwermetallhalter
Low vibration heavy metal holders

R





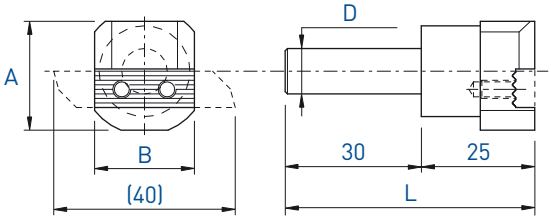


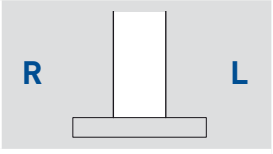
A x B	L	Serrage Spannsystem Clamping	Art. N°
10 x 10	115	A	**760-10-NOVIBRA**
12 x 12	115	A	**760-12-NOVIBRA**

Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

Porte-outils
Halter
Holders

760 / 750-D10

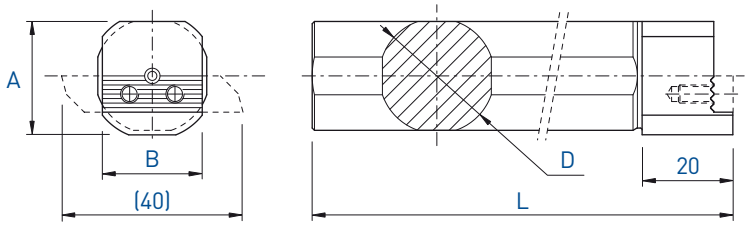


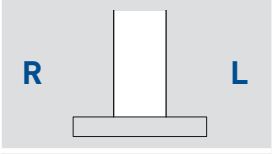


A x B	L	D	Art. N°
24 x 22	55	10	**760/750-D10**

Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

760 / 750-D



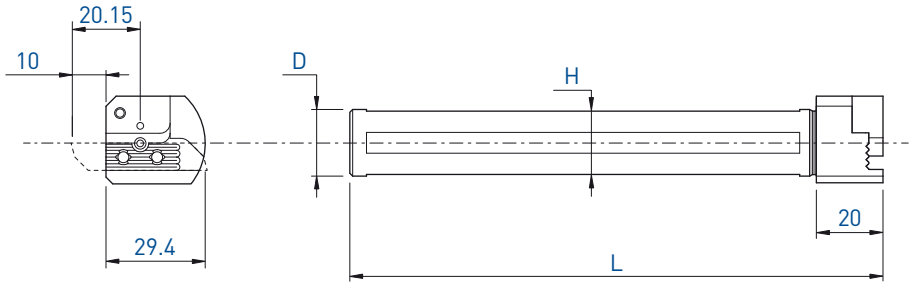


A x B	L	D	Art. N°
25 x 22	160	16	**760/750-D16**
25 x 22	160	19.05	**760/750-D19.05**
25 x 22	110	19.05	**760/750-D19.05-S**
25 x 22	160	20	**760/750-D20**
25 x 22	110	22	**760/750-D22**
25 x 22	200	25	**760/750-D25**
25 x 22	200	25.4	**760/750-D25.4**
25 x 22	125	25.4	**760/750-D25.4-S**

Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

Porte-outils frontal avec arrosage intégré
Frontaler Halter mit integrierter Kühlmittelzufuhr
Front holder with integrated coolant supply

760-D-JET



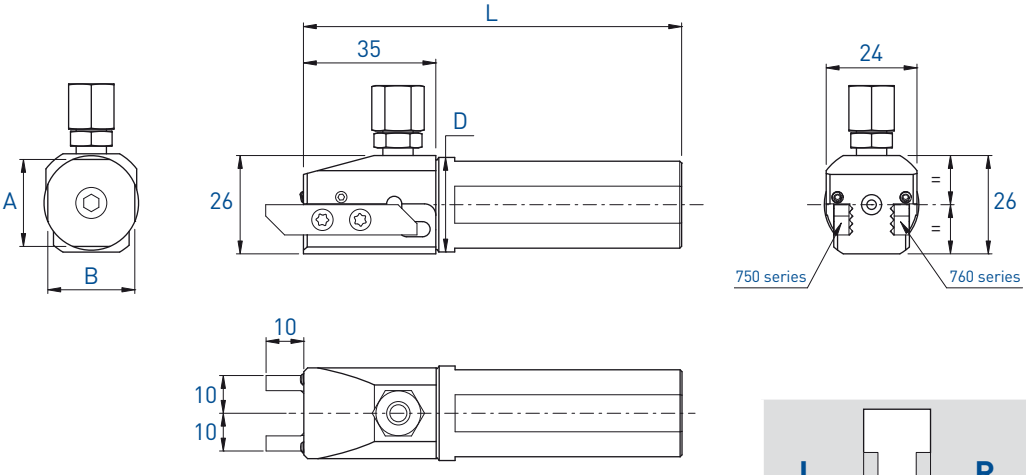
R

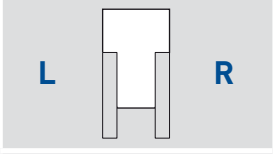
D	H	L	Art. N°
16	15	160	**760-D16-160-JET**
19.05	18	160	**760-D19.05-160-JET**
19.05	18	110	**760-D19.05-110-JET**
20	19	160	**760-D20-160-JET**
22	20	110	**760-D22-110-JET**
25	24	200	**760-D25-200-JET**
25.4	24	200	**760-D25.4-200-JET**
25.4	24	125	**760-D25.4-125-JET**

Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

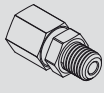
760 / 750-AX-JET

Porte-outils
Halter
Holders





A x B	L	D	Art. N°
23 x 23	100	25	**760/750-AX-D25-JET**
23 x 23	100	25.4	**760/750-AX-D25.4-JET**

Pièces de rechange Ersatzteile Spare parts			Buses Düsen Nozzles
	Art. N°	**Art. N°**	**Art. N°**
760/750-AX	**J-M8X1-D6**	**JB-M8X1**	**JJ-M3X6-D1.5**
			More option see JET-Line

Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

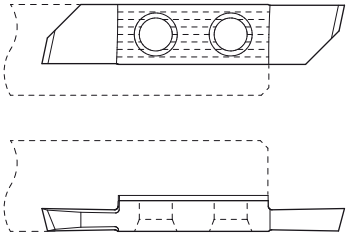
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.

Each holder is supplied with one or more screws.
The keys must be ordered separately.

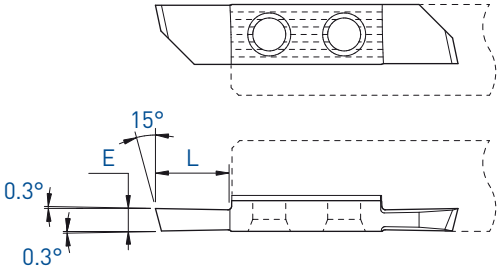
Tronçonnage
Abstechen
Parting off

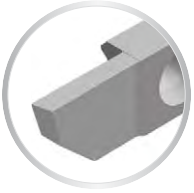
751 / 761

L



R



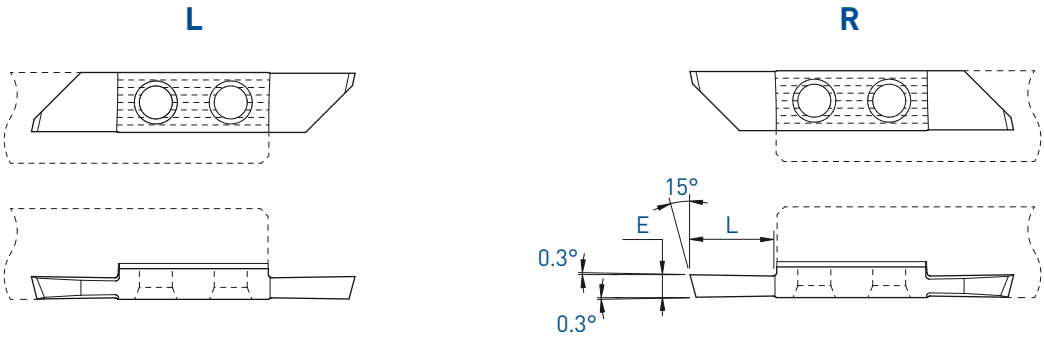


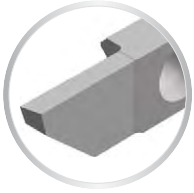
L									R								
E	L	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiAlX	TiN	N (µk20)	HTA	HTiN	HN (µk10)
1.0	5	**751-1.0**	●	●	●	●	●	●	**761-1.0**	●	●	●	●	●	●	●
1.2	5	**751-1.2**	●	●	●				**761-1.2**	●	●	●	●	●		●
1.5	7.5	**751-1.5**	●	●	●	●		●	**761-1.5**	●	●	●	●	●	●	●
1.8	7.5	**751-1.8**	●	●	●				**761-1.8**	●	●	●	●	●		●
2.0	10	**751-2.0**	●	●	●	●	●	●	**761-2.0**	●	●	●	●	●	●	●
2.2	10	**751-2.2**	●	●	●				**761-2.2**	●	●	●	●	●		●
2.5	10	**751-2.5**	●	●	●	●		●	**761-2.5**	●	●	●	●	●	●	●
3.0	10	**751-3.0**	●	●	●				**761-3.0**	●	●	●	●	●		●

7XX-XX-B

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

751S / 761S





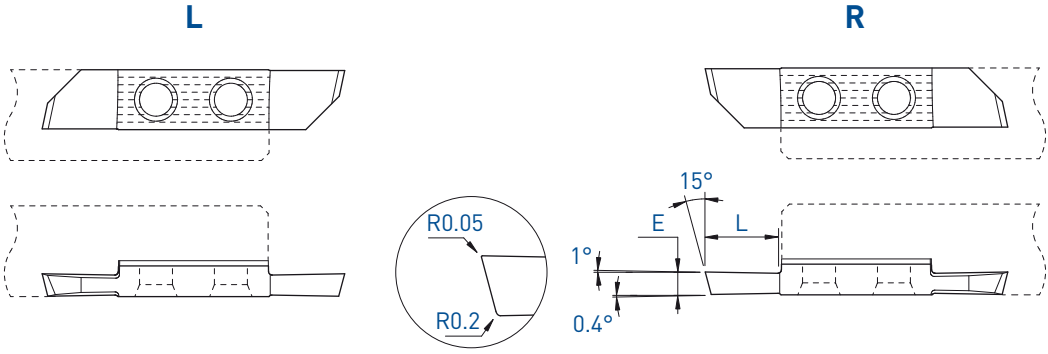
L									R								
E	L	Art. N°	P M N S TiAlN	P M N TiN	P S N (µk20)	P M N S HTA	P M N HTiN	P N S HN (µk10)	Art. N°	P M N S TiAlN	P M S TiAlX	P M N TiN	P S N (µk20)	P M N S HTA	P M N HTiN	P N S HN (µk10)
2.0	11.5	**751S-2.0**	●	●	●	●		●	**761S-2.0**	●	●	●	●	●		●
2.2	11.5	**751S-2.2**	●	●	●				**761S-2.2**	●	●	●	●	●		●
2.5	11.5	**751S-2.5**	●	●	●	●		●	**761S-2.5**	●	●	●	●	●		●
3.0	11.5	**751S-3.0**	●	●	●				**761S-3.0**	●	●	●	●	●		●

7XX-XX-B

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

Tronçonnage
Abstechen
Parting off

751-R05 / 761-R05



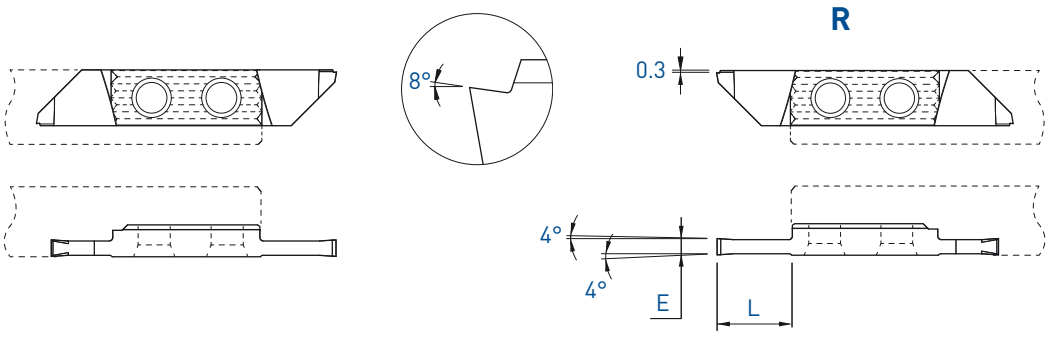
L									R								
E	L	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiAlX	TiN	N (µk20)	HTA	HTiN	HN (µk10)
1.5	7.5	**751-1.5-R05**	●	●	●				**761-1.5-R05**	●	●	●	●	●		●
2.0	10	**751-2.0-R05**	●	●	●				**761-2.0-R05**	●	●	●	●	●		●
2.5	10	**751-2.5-R05**	●	●	●				**761-2.5-R05**	●	●	●	●			

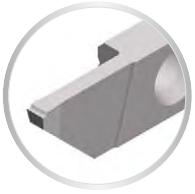
7XX-XX-B

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

751NX840 / 761NX840

Tronçonnage
Abstechen
Parting off





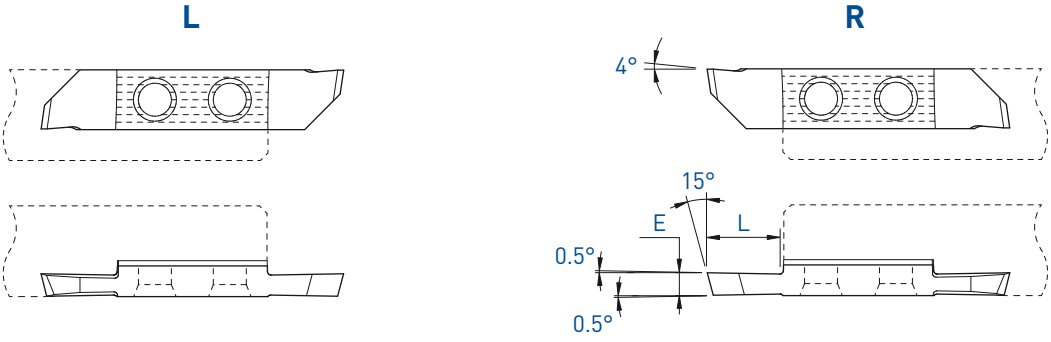
		L			R		
E	L	Art. N°	HCR-TF	HN (µk10)	Art. N°	HCR-TF	HN (µk10)
1.5	10	**751NX840-1.5**	●	●	**761NX840-1.5**	●	●
2.0	11	**751NX840-2.0**	●	●	**761NX840-2.0**	●	●
2.5	11	**751NX840-2.5**	●	●	**761NX840-2.5**	●	●

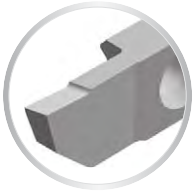
7XX-XX-B

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

Tronçonnage
Abstechen
Parting off

751X4 / 761X4





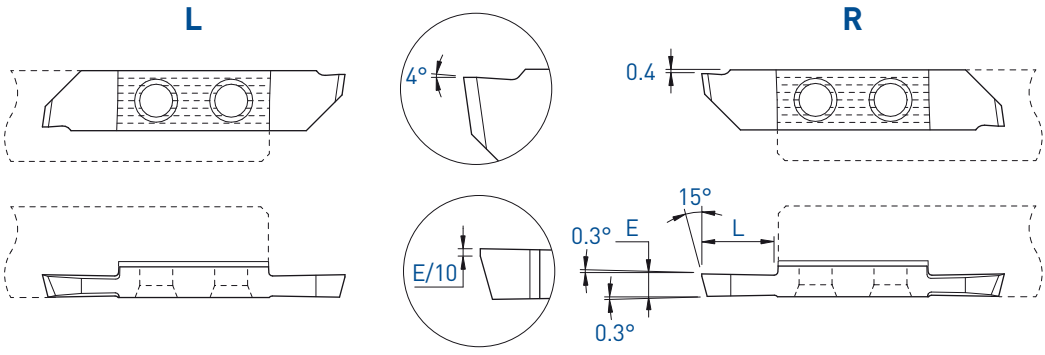
L										R							
E	L	Art. N°	P M N S	P M N	P S	P M N S	P M N	P N S		Art. N°	P M N S	P M N	P S	P M N S	P M N	P N S	
			TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)			TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	
1.5	7.5	-								761X4-1.5	●	●	●				
2.0	10	751X4-2.0	●	●	●	●		●		761X4-2.0	●	●	●	●		●	
2.5	10	-								761X4-2.5	●	●	●				

7XX-XX-B

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

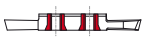
751XF / 761XF

Tronçonnage
Abstechen
Parting off



		L						R					
E	L	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)
1.5	7.5	**751XF-1.5**	●	●	●	●		●	**761XF-1.5**	●	●	●	●		●
2.0	10	**751XF-2.0**	●	●	●	●	●	●	**761XF-2.0**	●	●	●	●	●	●
2.2	10	**751XF-2.2**	●	●	●				**761XF-2.2**	●	●	●			
2.5	10	**751XF-2.5**	●	●	●	●		●	**761XF-2.5**	●	●	●			
3.0	10	**751XF-3.0**	●	●	●				**761XF-3.0**	●	●	●	●		●

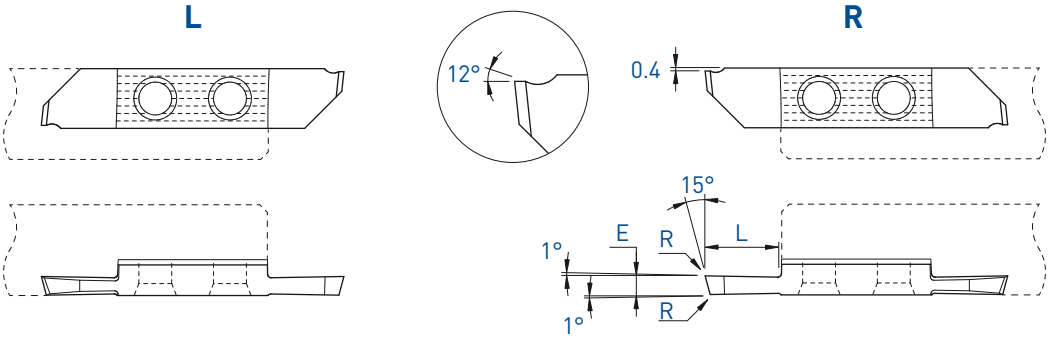
7XX-XX-B



Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

Tronçonnage
Abstechen
Parting off

751X12 / 761X12



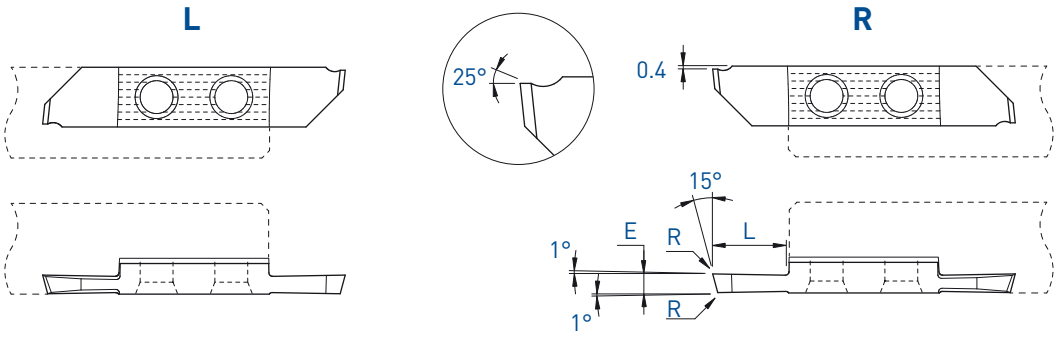
L										R									
E	L	R	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)
1.5	7.5	0.03	**751X12-1.5**	●	●	●	●		●	**761X12-1.5**	●	●	●	●		●
2.0	10	0.03	**751X12-2.0**	●	●	●	●		●	**761X12-2.0**	●	●	●	●		●
2.5	10	0.03	**751X12-2.5**	●	●	●				**761X12-2.5**	●	●	●	●		●

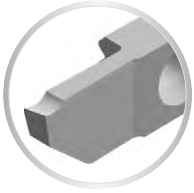
7XX-XX-B

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

751X25 / 761X25

Tronçonnage
Abstechen
Parting off





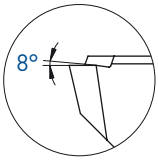
L										R							
E	L	R	Art. N°	P M N S TiAlN	P M N TiN	P S N (µk20)	P M N S HTA	P M N HTiN	P N S HN (µk10)	Art. N°	P M N S TiAlN	P M N TiN	P S N (µk20)	P M N S HTA	P M N HTiN	P N S HN (µk10)
1.5	7.5	0.03	**751X25-1.5**	●	●	●	●		●	**761X25-1.5**	●	●	●			
2.0	10	0.03	**751X25-2.0**	●	●	●				**761X25-2.0**	●	●	●	●		●
2.5	10	0.03	**751X25-2.5**	●	●	●				**761X25-2.5**	●	●	●	●		●

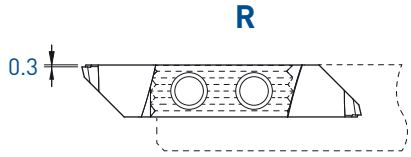
7XX-XX-B

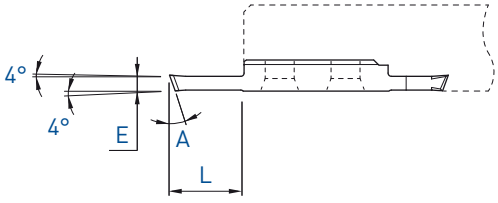
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

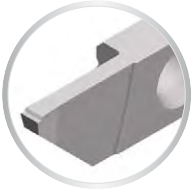
Tronçonnage
Abstechen
Parting off

761X840









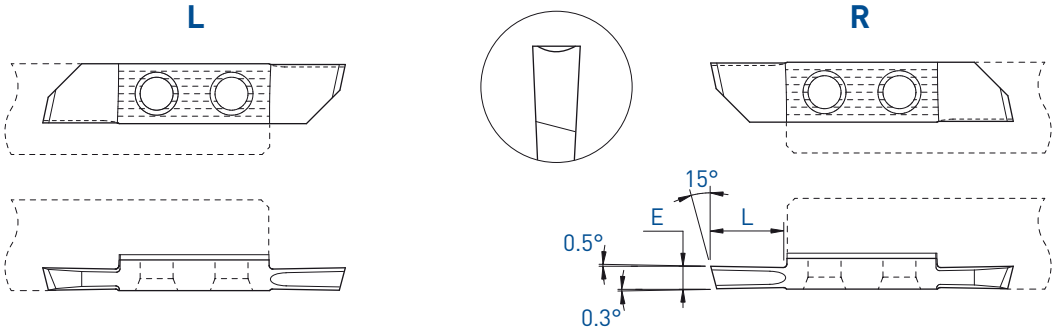
R

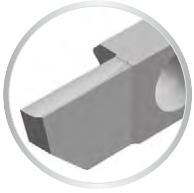
E	L	A	Art. N°	HCR-TF	HN (µk10)
				N S	P N S
1.4	10	20°	**761X840-1.4-20**	●	●
2	11	5°	**761X840-2.0-5**	●	●
2.5	11	5°	**761X840-2.5-5**	●	●
1.9	11	20°	**761X840-1.9-20**	●	●
2.4	11	20°	**761X840-2.4-20**	●	●

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

751U / 761U

Tronçonnage
Abstechen
Parting off





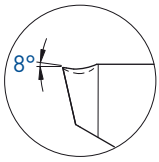
		L							R						
E	L	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)
1.5	7.5	-							761U-1.5	●	●	●	●		●
2.0	10	751U-2.0	●	●	●				761U-2.0	●	●	●			●

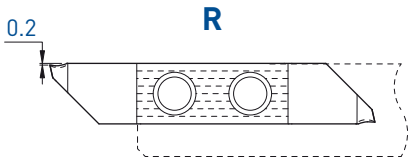
7XX-XX-B

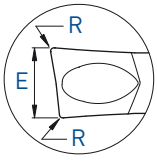
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

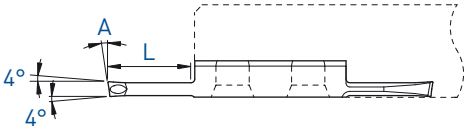
Tronçonnage
Abstechen
Parting off

761ZU









R

E	A	L	R	Art. N°	TiAlN	N (µK20)
2.0	0°	11	0.10	**761ZU8-2.0-R10**	●	
2.0	8°	11	0.10	**761ZU8-2.0-8°-R10**	●	

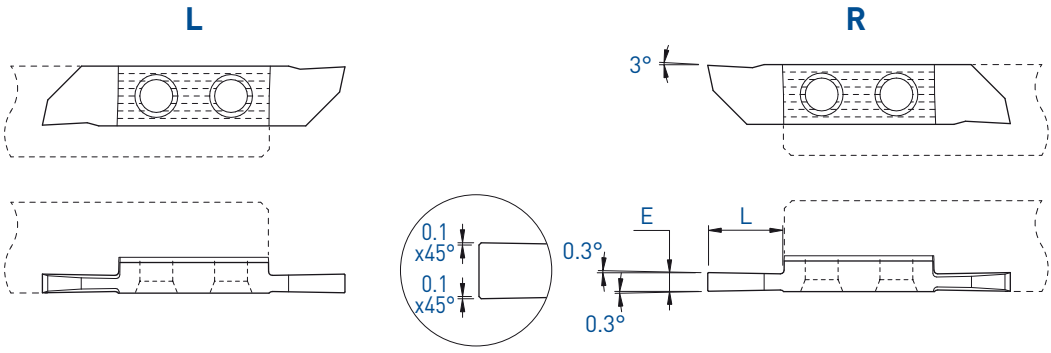
Arête de coupe honée
Gehonte Schneidkante
Honed edge

f min: 0.02 mm/U

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

751NXF / 761NXF

Tronçonnage
Abstechen
Parting off



L										R								
E	L	Art. N°	P M N S	P M N	P	P M N S	P M N	P N S	TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)	Art. N°	P M N S	P M N	P	P M N S	P M N	P N S	TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)
2.0	10	**751NXF-2.0**							●	●	●	●		●	**761NXF-2.0**							●	●	●	●	●	●
2.5	10	**751NXF-2.5**							●	●	●				**761NXF-2.5**							●	●	●			
3.0	10	**751NXF-3.0**							●	●	●				**761NXF-3.0**							●	●	●			

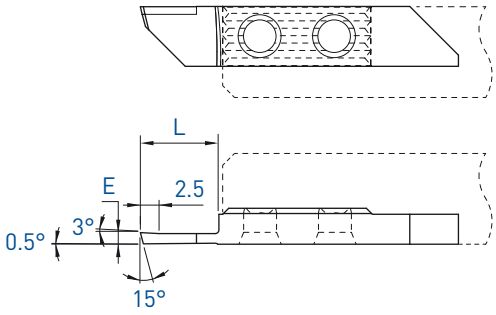
7XX-XX-B

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

Tronçonnage
Abstechen
Parting off

761-PCD

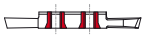
R



R

E	L	Art. N°	PCD
1.5	10	**761-1.5-PCD**	●
2	11	**761-2.0-PCD**	●
2.5	11	**761-2.5-PCD**	●

7XX-XX-B



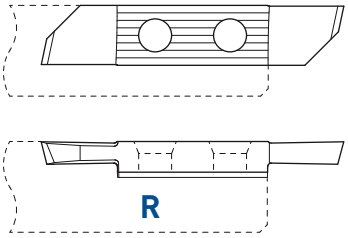
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

761L / 751R

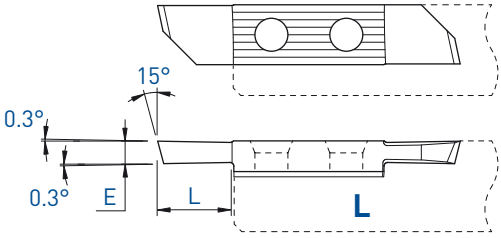
Coupe déportée
Versetztes Schneiden
Cut off line

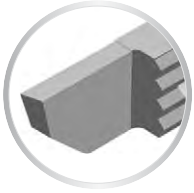
Tronçonnage
Abstechen
Parting off

Cut L



Cut R





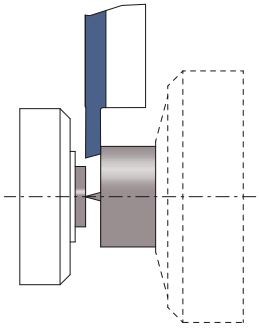
R (L)

Coupe à gauche déportée
Versetztes Linksschneiden
Left cut off line

L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

E	L	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiAlX	TiN	N (µk20)	HTA	HTiN	HN (µk10)
1.0	5	**761L-1.0**	●	●	●	●		●	**751R-1.0**	●	●	●	●	●		●
1.5	7.5	**761L-1.5**	●	●	●	●		●	**751R-1.5**	●	●	●	●	●		●
1.8	7.5	**761L-1.8**	●	●	●				**751R-1.8**	●	●	●	●	●		●
2.0	10	**761L-2.0**	●	●	●	●		●	**751R-2.0**	●	●	●	●	●	●	●
2.2	10	**761L-2.2**	●	●	●				**751R-2.2**	●	●	●	●			
2.5	10	**761L-2.5**	●	●	●	●		●	**751R-2.5**	●	●	●	●	●	●	●
3.0	10	**761L-3.0**	●	●	●				**751R-3.0**	●	●	●	●	●		●

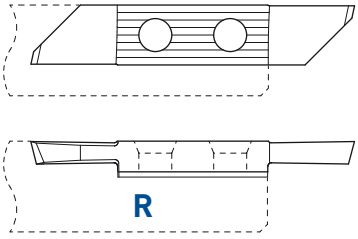


Tronçonnage
Abstechen
Parting off

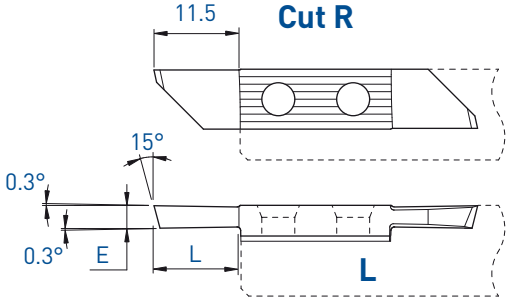
Coupe déportée
Versetztes Schneiden
Cut off line

761LS / 751RS

Cut L



Cut R



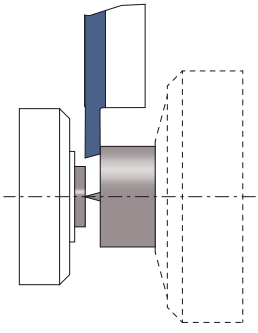
R (L)

Coupe à gauche déportée
Versetztes Linksschneiden
Left cut off line

L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

E	L	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiAlX	TiN	N (µk20)	HTA	HTiN	HN (µk10)
1.0	5.5	**761LS-1.0**	●	●	●	●		●	**751RS-1.0**	●	●	●	●	●		●
1.5	8	**761LS-1.5**	●	●	●	●		●	**751RS-1.5**	●	●	●	●	●		●
2.0	11.5	**761LS-2.0**	●	●	●				**751RS-2.0**	●	●	●	●	●	●	●
2.2	11.5	**761LS-2.2**	●	●	●				**751RS-2.2**	●	●	●	●	●		●
2.5	11.5	**761LS-2.5**	●	●	●				**751RS-2.5**	●	●	●	●	●	●	●
3.0	11.5	**761LS-3.0**	●	●	●				**751RS-3.0**	●	●	●	●	●		●

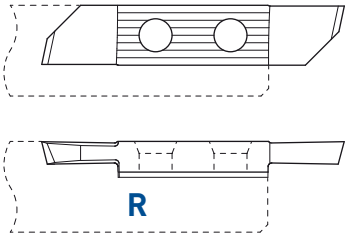


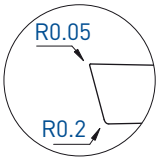
761L-R05 / 751R-R05

Coupe déportée
Versetztes Schneiden
Cut off line

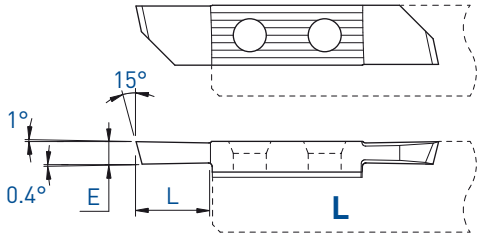
Tronçonnage
Abstechen
Parting off

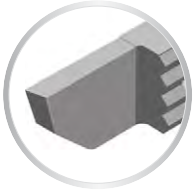
Cut L





Cut R





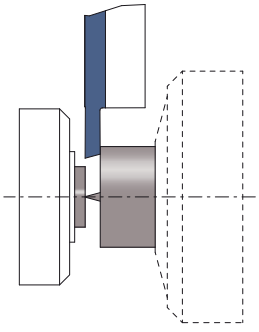
R (L)

Coupe à gauche déportée
Versetztes Linksschneiden
Left cut off line

L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

E	L	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiAlX	TiN	N (µk20)	HTA	HTiN	HN (µk10)
1.5	7.5	**761L-1.5-R05**	●	●	●				**751R-1.5-R05**	●	●	●	●	●		●
2.0	10	**761L-2.0-R05**	●	●	●				**751R-2.0-R05**	●	●	●	●			

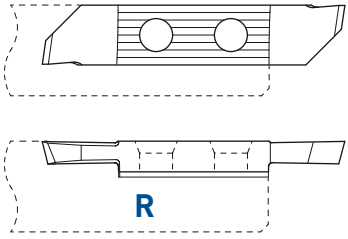


Tronçonnage
Abstechen
Parting off

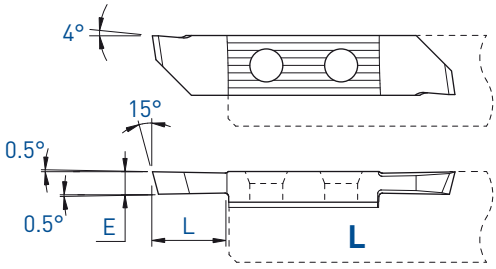
Coupe déportée
Versetztes Schneiden
Cut off line

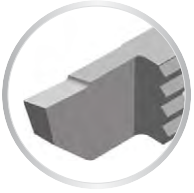
761LX4 / 751RX4

Cut L



Cut R





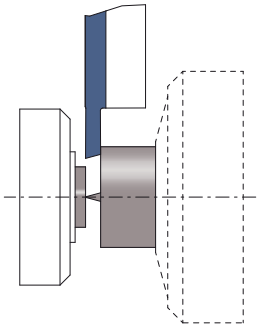
R (L)

Coupe à gauche déportée
Versetztes Linksschneiden
Left cut off line

L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

E	L	Art. N°	P M N S TiAlN	P M N TiN	P S N (µk20)	P M N S HTA	P M N HTiN	P N S HN (µk10)	Art. N°	P M N S TiAlN	P M N TiN	P S N (µk20)	P M N S HTA	P M N HTiN	P N S HN (µk10)
1.5	7.5	-							751RX4-1.5	●	●	●	●	●	●
2.0	10	761LX4-2.0	●	●	●				751RX4-2.0	●	●	●	●	●	●
2.5	10	-							751RX4-2.5	●	●	●			

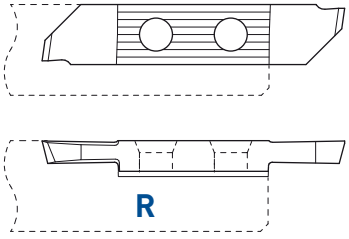


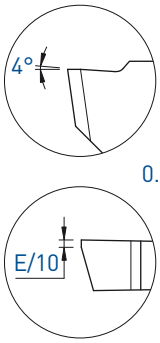
761LXF / 751RXF

Coupe déportée
Versetztes Schneiden
Cut off line

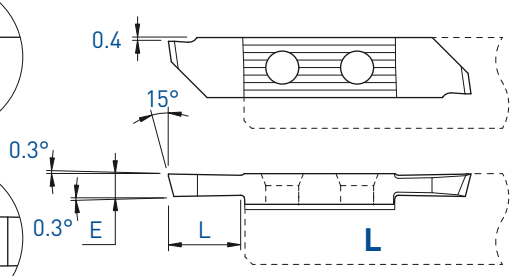
Tronçonnage
Abstechen
Parting off

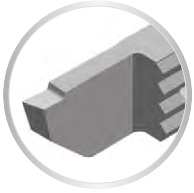
Cut L





Cut R





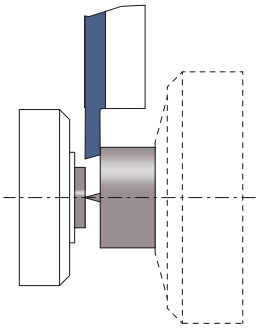
R (L)

Coupe à gauche déportée
Versetztes Linksschneiden
Left cut off line

L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

E	L	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)
1.5	7.5	-							751RXF-1.5	●	●	●	●		●
2.0	10	761LXF-2.0	●	●	●				751RXF-2.0	●	●	●	●	●	●
2.5	10	761LXF-2.5	●	●	●				751RXF-2.5	●	●	●	●		●
3.0	10	761LXF-3.0	●	●	●				751RXF-3.0	●	●	●	●		●

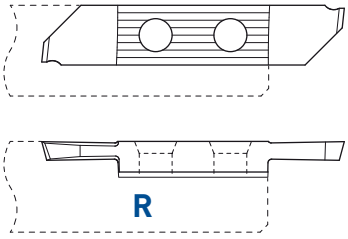


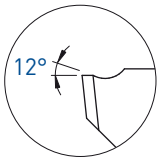
Tronçonnage
Abstechen
Parting off

Coupe déportée
Versetztes Schneiden
Cut off line

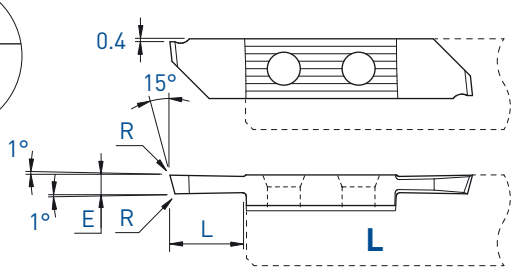
761LX12 / 751RX12

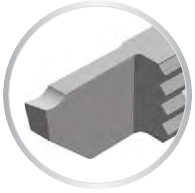
Cut L



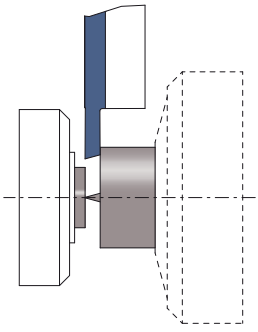


Cut R





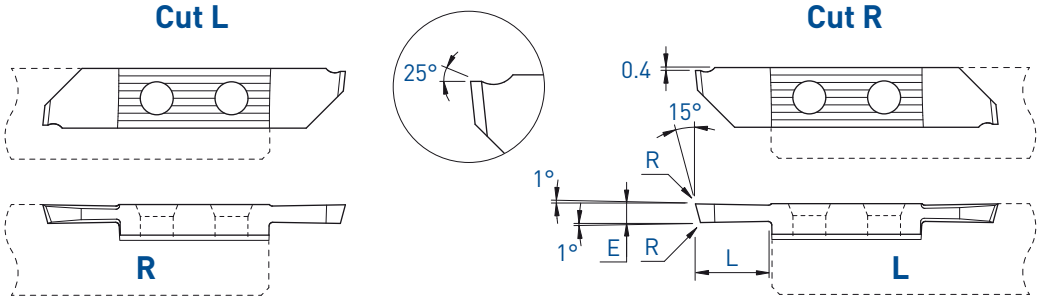
	R (L) Coupe à gauche déportée Versetztes Linksschneiden Left cut off line							L (R) Coupe à droite déportée Versetztes Rechtsschneiden Right cut off line							
E	L	R	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)
1.5	7.5	0.03	-							**751RX12-1.5**	●	●	●			
2.0	10	0.03	**761LX12-2.0**	●	●	●				**751RX12-2.0**	●	●	●	●	●	●

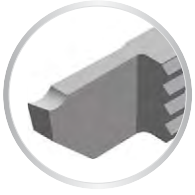


761LX25 / 751RX25

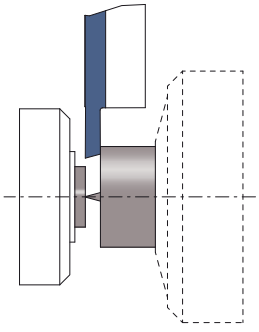
Coupe déportée
Versetztes Schneiden
Cut off line

Tronçonnage
Abstechen
Parting off





			R (L) Coupe à gauche déportée Versetztes Linksschneiden Left cut off line				L (R) Coupe à droite déportée Versetztes Rechtsschneiden Right cut off line			
E	L	R	Art. N°	TiAlN	TiN	N (µk20)	Art. N°	TiAlN	TiN	N (µk20)
2.0	10	0.03	**761LX25-2.0**	●	●	●	**751RX25-2.0**	●	●	●

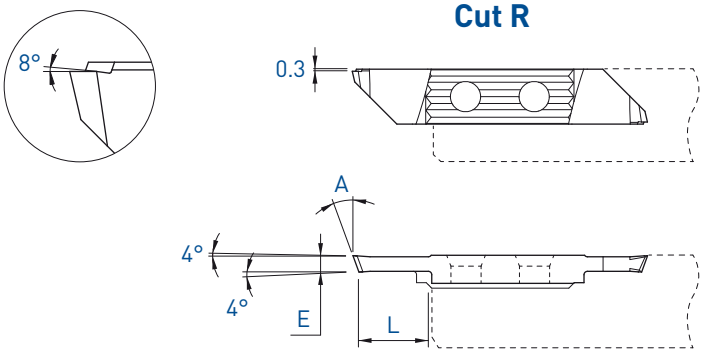


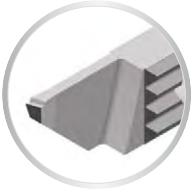
Tronçonnage
Abstechen
Parting off

Coupe déportée
Versetztes Schneiden
Cut off line

751RX840

Cut R





L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

E	L	A	Art. N°	HCR-TF	HN (µk10)
1.4	10	20°	**751RX840-1.4-20**	●	●
1.5	10	5°	**751RX840-1.5-5**	●	●
2	11	5°	**751RX840-2.0-5**	●	●
2.5	11	5°	**751RX840-2.5-5**	●	●
1.9	11	20°	**751RX840-1.9-20**	●	●
2.4	11	20°	**751RX840-2.4-20**	●	●

7XX-XX-B

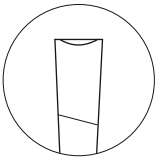
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

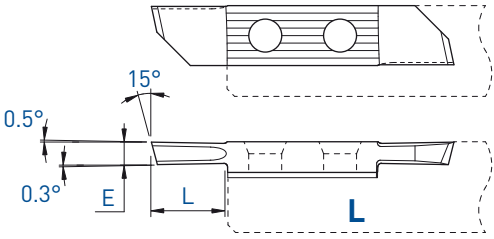
751RU

Coupe déportée
Versetztes Schneiden
Cut off line

Tronçonnage
Abstechen
Parting off

Cut R

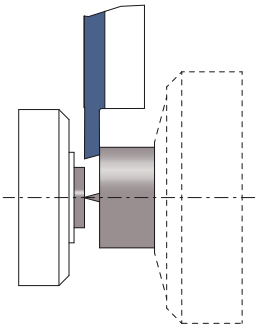




L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

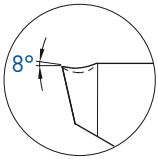
E	L	Art. N°	TiAlN	TiN	N (µK20)
			P M N S	P M N	P S
1.5	7.5	**751RU-1.5**	●	●	●
2.0	10	**751RU-2.0**	●	●	●

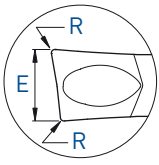


Tronçonnage
Abstechen
Parting off

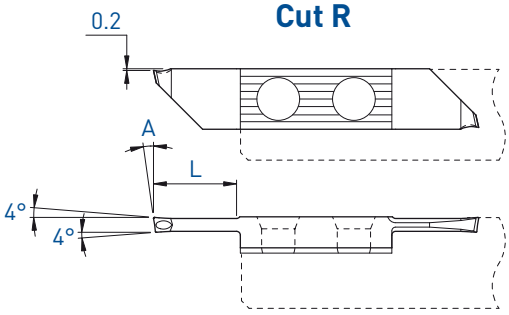
Coupe déportée
Versetztes Schneiden
Cut off line

751RZU





Cut R



R (L)

Coupe à gauche déportée
Versetztes Linksschneiden
Left cut off line

E	A	L	R	Art. N°	TiAlN	TiN	N (µK20)
2.0	8°	11.0	0.10	**751RZU8-2.0-8°-R10**	●		

Arête de coupe honée
Gehonte Schneidkante
Honed edge

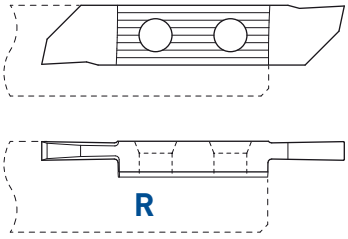
f min: 0.02 mm/U

761NXF / 751NXF

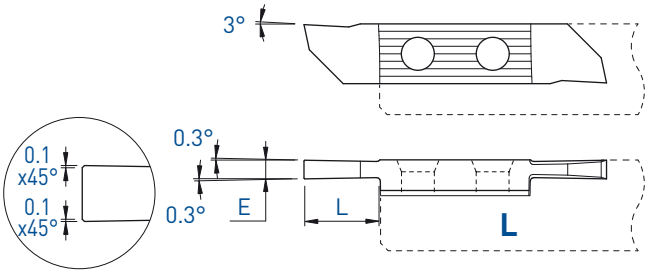
Coupe déportée
Versetztes Schneiden
Cut off line

Tronçonnage
Abstechen
Parting off

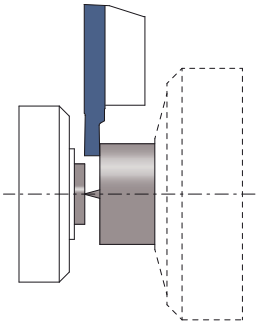
Cut L



Cut R



R (L) Coupe à gauche déportée Versetztes Linksschneiden Left cut off line										L (R) Coupe à droite déportée Versetztes Rechtsschneiden Right cut off line									
E	L	Art. N°	P M N S	P M N	P S	P M N S	P M N	P N S	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	P M N S	P M N	P S	P M N S	P M N	P N S	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)
2.0	10	**761NXF-2.0**	●	●	●	●		●							**751NXF-2.0**	●	●	●	●		●						
2.5	10	**761NXF-2.5**	●	●	●										**751NXF-2.5**	●	●	●									
3.0	10	**761NXF-3.0**	●	●	●										**751NXF-3.0**	●	●	●									

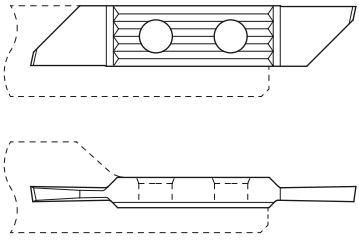


Tronçonnage
Abstechen
Parting off

Coupe déportée
Versetztes Schneiden
Cut off line

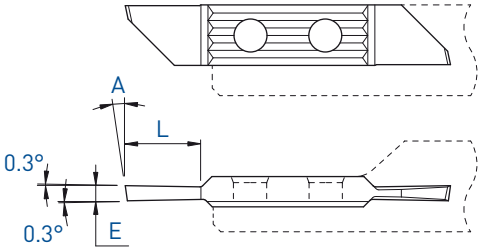
761LD / 751RD

Cut L

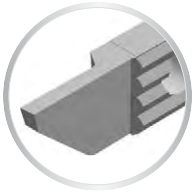


R

Cut R



L



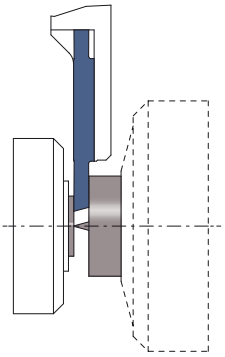
R (L)

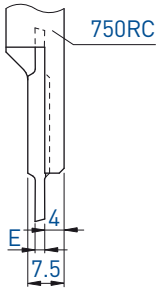
Coupe à gauche déportée
Versetztes Linksschneiden
Left cut off line

L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

E	A	L	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)
				P M N S	P M N	P S	P M N S	P M N	P N S		P M N S	P M N	P S	P M N S	P M N	P N S
1.0	8°	5	**761LD-1.0-8°**	●	●	●	●		●	**751RD-1.0-8°**	●	●	●	●		●
1.0	15°	5	**761LD-1.0-15°**	●	●	●	●		●	**751RD-1.0-15°**	●	●	●	●		●
1.2	8°	5	**761LD-1.2-8°**	●	●	●				**751RD-1.2-8°**	●	●	●	●	●	●
1.5	8°	8	**761LD-1.5-8°**	●	●	●				**751RD-1.5-8°**	●	●	●	●	●	●
1.5	15°	8	**761LD-1.5-15°**	●	●	●				**751RD-1.5-15°**	●	●	●	●		●
1.6	8°	8	**761LD-1.6-8°**	●	●	●				**751RD-1.6-8°**	●	●	●			
1.8	8°	10	**761LD-1.8-8°**	●	●	●				**751RD-1.8-8°**	●	●	●	●		●
2.0	8°	10	**761LD-2.0-8°**	●	●	●				**751RD-2.0-8°**	●	●	●	●		●
2.0	15°	10	**761LD-2.0-15°**	●	●	●	●		●	**751RD-2.0-15°**	●	●	●	●		●
2.5	8°	10	-							**751RD-2.5-8°**	●	●	●	●		●



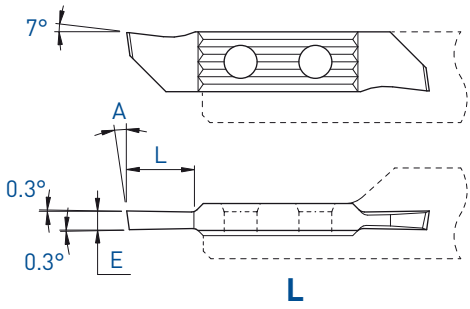


751RAS

Coupe déportée
Versetztes Schneiden
Cut off line

Tronçonnage
Abstechen
Parting off

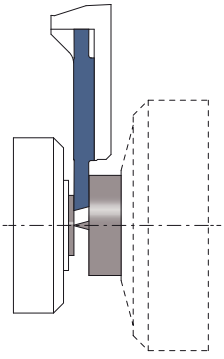
Cut R

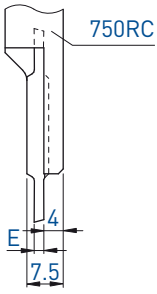


L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

E	A	L	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)
				P M N S	P M N	P S	P M N S	P M N	P N S
1.6	8°	7.5	**751RAS-1.6-8°**	●	●	●			
1.6	15°	7.5	**751RAS-1.6-15°**	●	●	●	●		●
2.0	8°	9	**751RAS-2.0-8°**	●	●	●	●		●
2.0	15°	9	**751RAS-2.0-15°**	●	●	●			
2.5	8°	9	**751RAS-2.5-8°**	●	●	●			
2.5	15°	9	**751RAS-2.5-15°**	●	●	●			



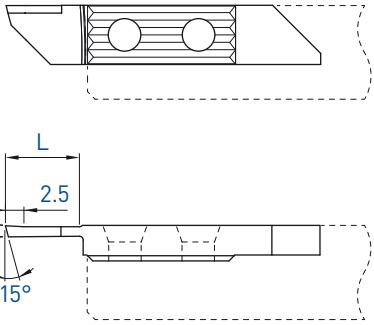


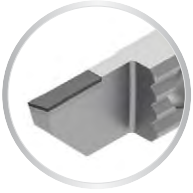
Tronçonnage
Abstechen
Parting off

Coupe déportée
Versetztes Schneiden
Cut off line

751R-PCD

Cut R





L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

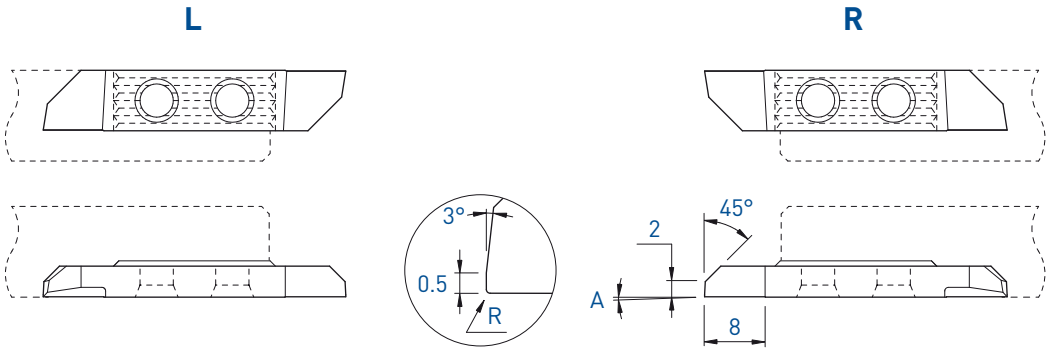
E	L	Art. N°	PCD
1.5	10	**751R-1.5-PCD**	●
2	11	**751R-2.0-PCD**	●
2.5	11	**751R-2.5-PCD**	●

7XX-XX-B

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

752 / 762

Tournage avant
Vorwärts drehen
Front turning

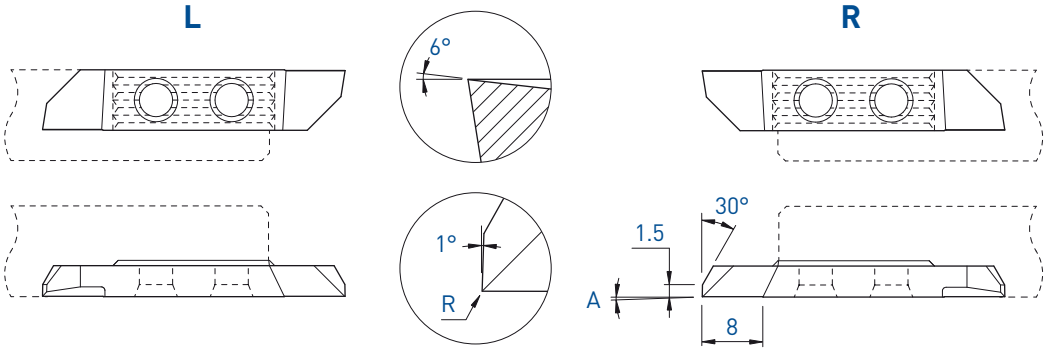


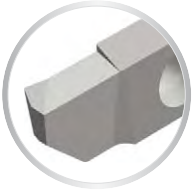
		L							R							
			P M N S	P M N	P S	P M N S	P M N	P N S		P M N S	P M N	P S	P M N S	P M N	P N S	
A	R	Art. N°	TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)	Art. N°	TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)	
0°	0	**752**	●	●	●	●		●	**762**	●	●	●	●		●	
0°	0.20	**-**							**762-R20**	●	●	●	●		●	
3°	0	**752-3°**	●	●	●	●		●	**762-3°**	●	●	●	●		●	
3°	0.20	**-**							**762-3°-R20**	●	●	●	●	●	●	

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

Tournage avant
Vorwärts drehen
Front turning

752PX / 762PX





		L				R			
A	R	Art. N°	TiAlN	TiN	N (µk20)	Art. N°	TiAlN	TiN	N (µk20)
0°	0	752PX	●	●	●	762PX	●	●	●

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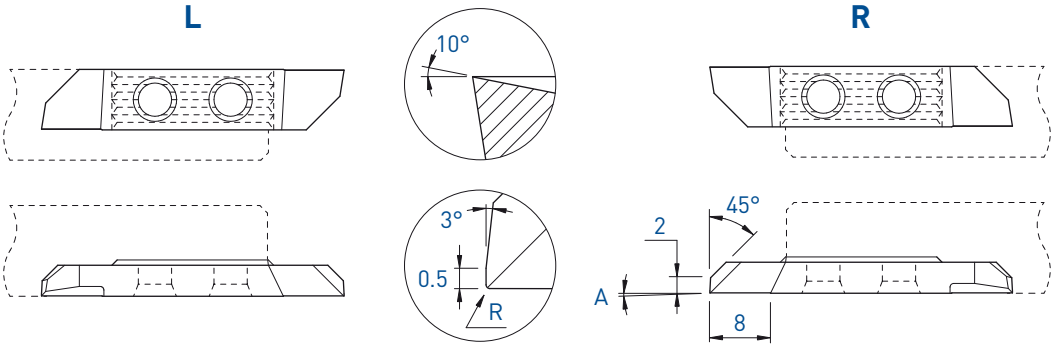
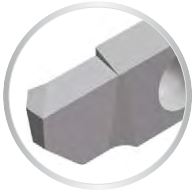
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

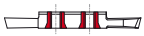
752X / 762X

Tournage avant
Vorwärts drehen
Front turning





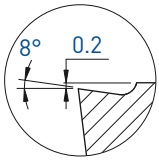
		L							R						
A	R	Art. N°	TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)	Art. N°	TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)
0°	0	**752X**	●	●	●	●	●	●	**762X**	●	●	●	●	●	●
0°	0.20	**752X-R20**	●	●	●				**762X-R20**	●	●	●	●	●	●
3°	0	-							**762X-3°**	●	●	●	●	●	●
3°	0.20	-							**762X-3°-R20**	●	●	●	●	●	●

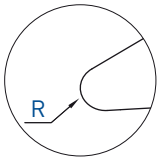


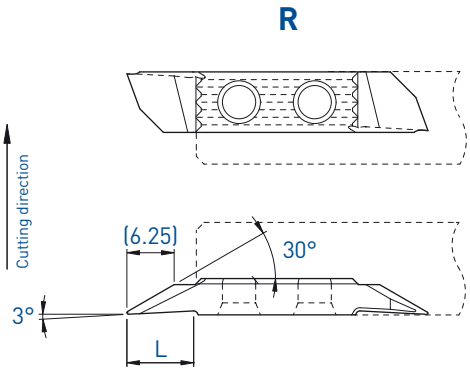
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

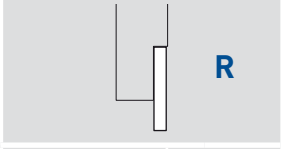
Tournage avant
Vorwärts drehen
Front turning

762VX-800









L	R	Art. N°	HTA	HTiN	HN (µk10)
9	0.15	**762VX-800-R15**	●		●

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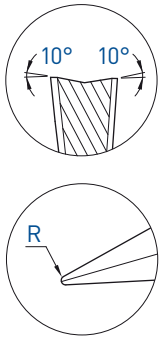
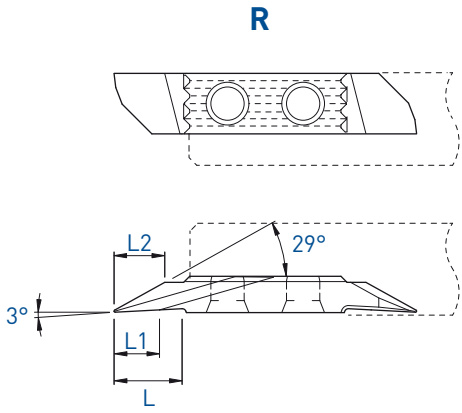
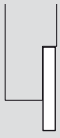
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

762VUX

Tournage avant
Vorwärts drehen
Front turning







R

L	L1	L2	R	Art. N°	TiAlN	N (μk20)	HTA	HN (μk10)
9	6	6.9	0.08	**762VUX10-29°-R08**	●	●	●	●
9	6	6.7	0.15	**762VUX10-29°-R15**	●	●	●	●
9	6	6.1	0.35	**762VUX10-29°-R35**	●	●	●	●
9	6	4.9	0.75	**762VUX10-29°-R75**	●	●	●	●

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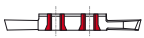
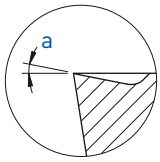
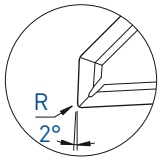


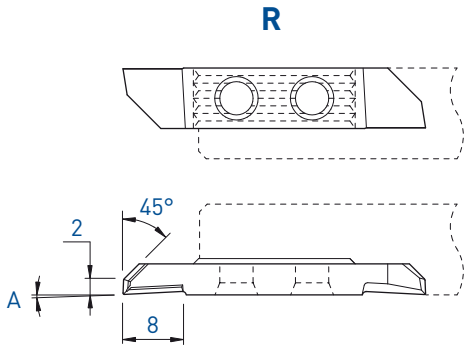
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

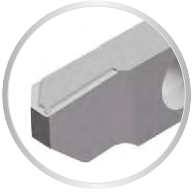
Tournage avant
Vorwärts drehen
Front turning

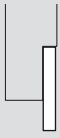
762ZX











R

a	A	R	Art. N°	P M N S TiAlN	P M N TiN	P S N (µk20)
10°	3°	0.08	**762ZX10-R08**	●		
	3°	0.20	**762ZX10-R20**	●	●	

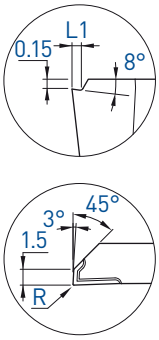
Arête de coupe honée
Gehonte Schneidkante
Honed edge

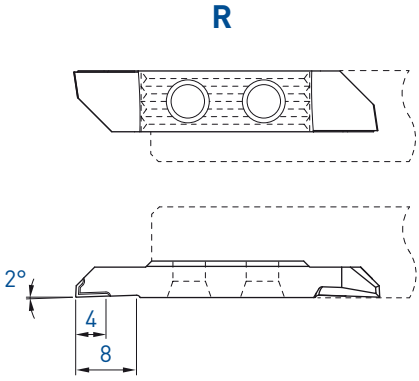
f min: 0.02 mm/U

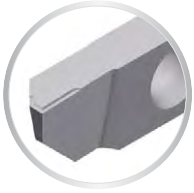
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

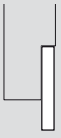
762ZF-X

Tournage avant
Vorwärts drehen
Front turning









R

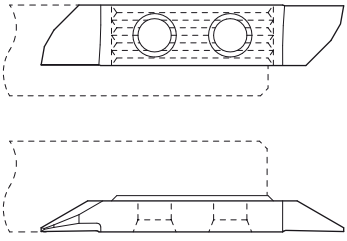
L1	R	Art . N°	KCR	KN (µk10-20)
			N S	P M N S
0.24	0.03	**762ZF-X824-R03**	●	●
0.36	0.08	**762ZF-X836-R08**	●	●
0.48	0.08	**762ZF-X848-R08**	●	●

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

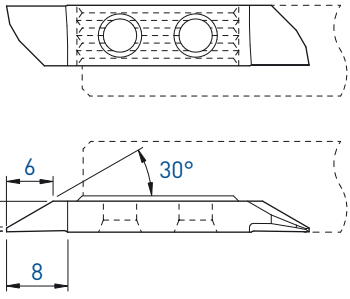
Tournage multifonction
Mehrzweck Drehen
Multifunction turning

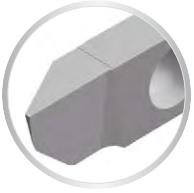
752S / 762S

L



R





Tournage avant
Vorwärts drehen
Front turning

L							R							
Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiAlX	TiN	N (µk20)	HTA	HTiN	HN (µk10)
752S05	●	●	●	●		●	762S05	●	●	●	●	●	●	●

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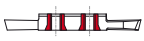
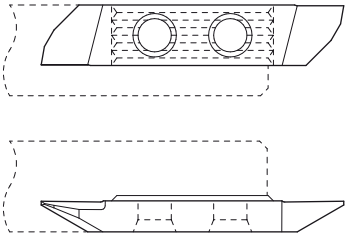


Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

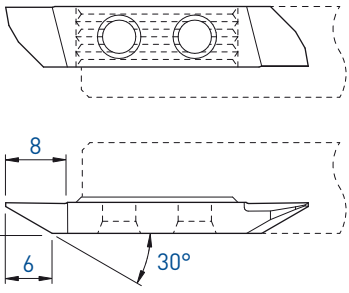
753S / 763S

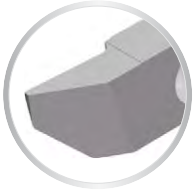
Tournage multifonction
Mehrzweck Drehen
Multifunction turning

L



R





Tournage arrière
Rückwärts drehen
Back turning

L								R							
Art. N°	TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)		Art. N°	TiAlN	TiAlX	TiN	N (µK20)	HTA	HTiN	HN (µK10)
753S05	●	●	●	●	●	●		763S05	●	●	●	●	●	●	●

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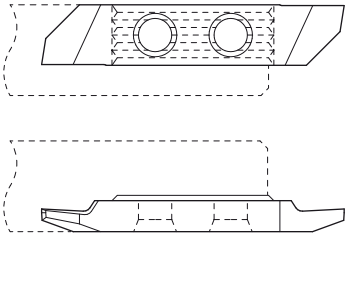
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

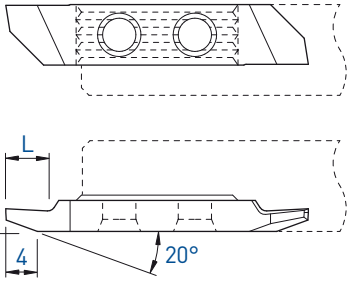
Tournage arrière
Rückwärts drehen
Back turning

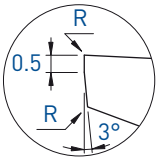
753 / 763

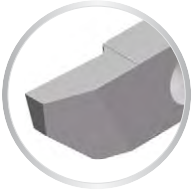
L



R







L										R								
E	L	R	Art. N°	P M N S TiAlN	P M N TiN	P S N (µk20)	P M N S HTA	P M N HTiN	P N S HN (µk10)	Art. N°	P M N S TiAlN	P M N TiN	P S N (µk20)	P M N S HTA	P M N HTiN	P N S HN (µk10)
1.0	5	0	**753-1.0**	●	●	●	●		●	**763-1.0**	●	●	●	●	●	●
1.0	5	0.08	**753-1.0-R08**	●	●	●				**763-1.0-R08**	●	●	●	●		●
1.5	6	0	**753-1.5**	●	●	●				**763-1.5**	●	●	●	●		●
2.0	7.5	0	**753-2.0**	●	●	●				**763-2.0**	●	●	●	●		●
2.5	9	0	**753-2.5**	●	●	●				**763-2.5**	●	●	●	●		●

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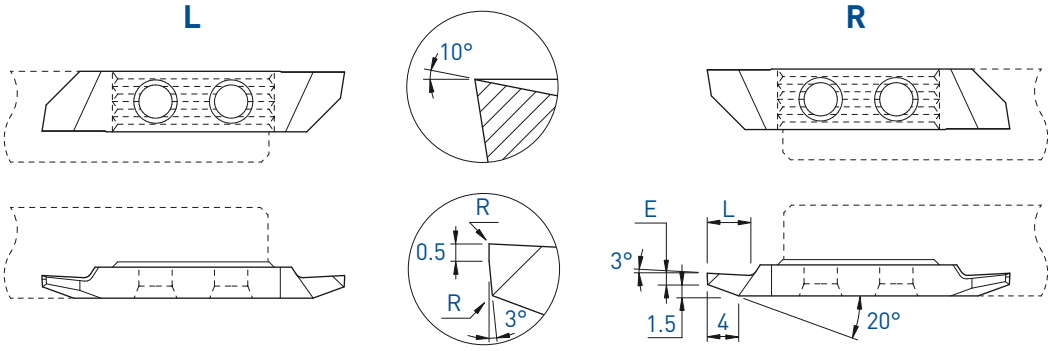
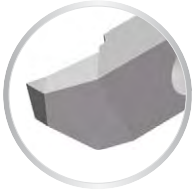
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

753X / 763X

Tournage arrière
Rückwärts drehen
Back turning





L										R								
E	L	R	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)
1.0	5	0	**753X-1.0**	●	●	●				**763X-1.0**	●	●	●	●		●
1.0	5	0.08	**753X-1.0-R08**	●	●	●	●		●	**763X-1.0-R08**	●	●	●	●		●
1.0	5	0.20	**753X-1.0-R20**	●	●	●				**763X-1.0-R20**	●	●	●			
1.5	6	0	**753X-1.5**	●	●	●				**763X-1.5**	●	●	●	●		●
1.5	6	0.20	**753X-1.5-R20**	●	●	●				**763X-1.5-R20**	●	●	●			
2.0	7.5	0	**753X-2.0**	●	●	●				**763X-2.0**	●	●	●			
2.0	7.5	0.20	**753X-2.0-R20**	●	●	●				**763X-2.0-R20**	●	●	●			
2.5	9	0	**753X-2.5**	●	●	●				**763X-2.5**	●	●	●			
2.5	9	0.20	**753X-2.5-R20**	●	●	●				**763X-2.5-R20**	●	●	●			

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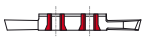
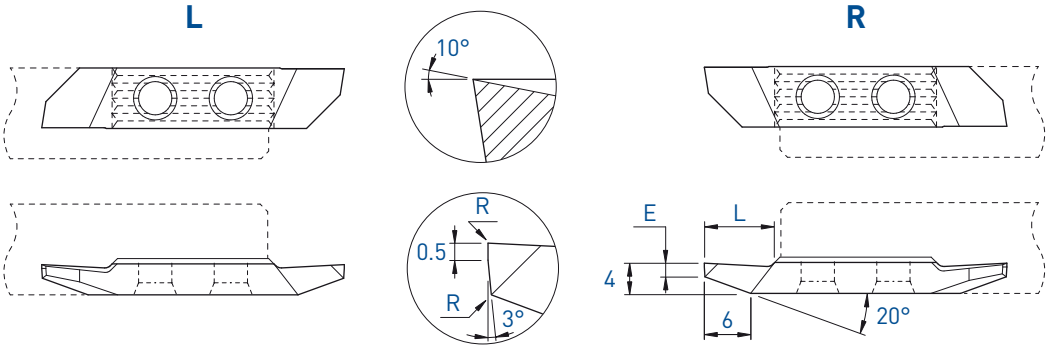
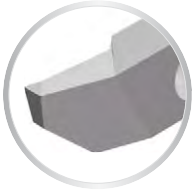


Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

Tournage arrière
Rückwärts drehen
Back turning

753XS / 763XS





			L							R						
E	L	R	Art. N°	P M N S TiAlN	P M N TiN	P S N (µk20)	P M N S HTA	P M N HTiN	P N S HN (µk10)	Art. N°	P M N S TiAlN	P M N TiN	P S N (µk20)	P M N S HTA	P M N HTiN	P N S HN (µk10)
1.8	9	0	**753XS-1.8**	●	●	●				**763XS-1.8**	●	●	●	●		●
1.8	9	0.20	**753XS-1.8-R20**	●	●	●				**763XS-1.8-R20**	●	●	●			

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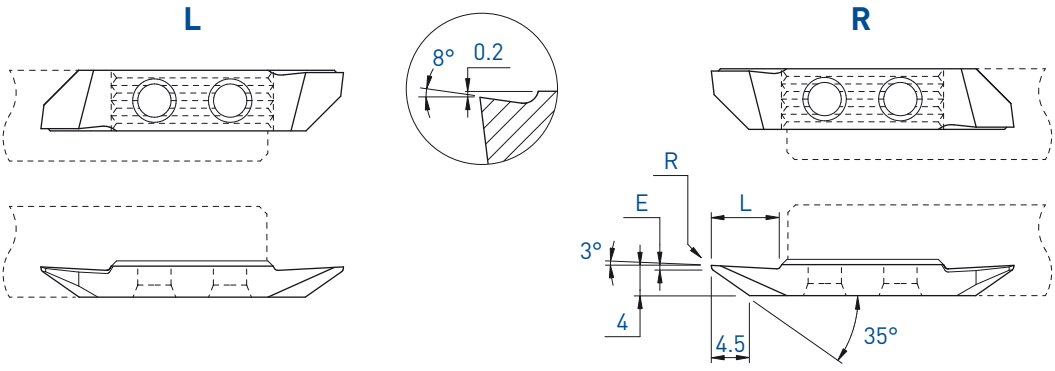
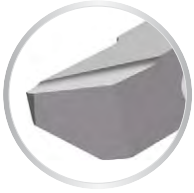
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

753VX-8° / 763VX-8°

Tournage arrière
Rückwärts drehen
Back turning





			L							R						
E	L	R	Art. N°	P M N S	P M N	P S	P M N S	P M N	P N S	Art. N°	P M N S	P M N	P S	P M N S	P M N	P N S
				TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)		TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)
1.0	9	0	**753VX-8°**	●	●	●				**763VX-8°**	●	●	●	●	●	●
1.0	9	0.08	**753VX-8°-R08**	●	●	●				**763VX-8°-R08**	●	●	●	●		●
1.0	9	0.20	-							**763VX-8°-R20**	●	●	●			

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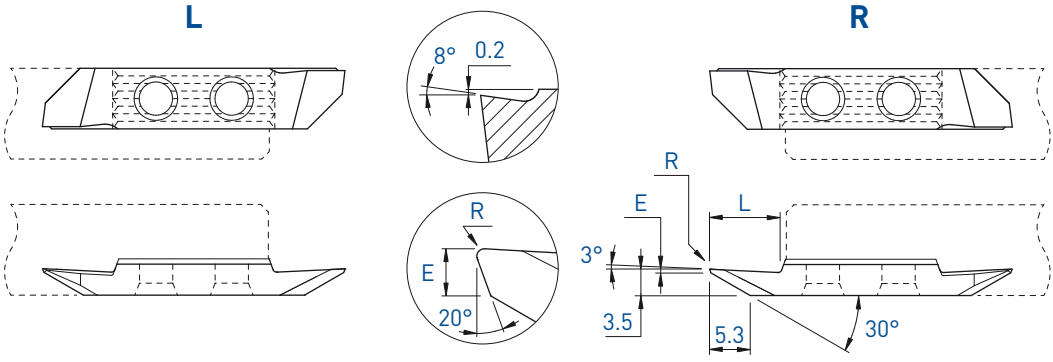
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

Tournage arrière
Rückwärts drehen
Back turning

753VX-805 / 763VX-805



E	L	R	L Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	R Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)
0.5	9	0.08	**753VX-805-R08**	●	●	●	●		●	**763VX-805-R08**	●	●	●	●		●

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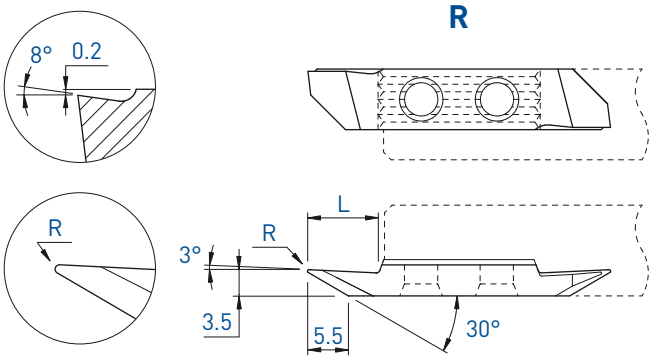
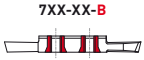
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

763VX-800

Tournage arrière
Rückwärts drehen
Back turning



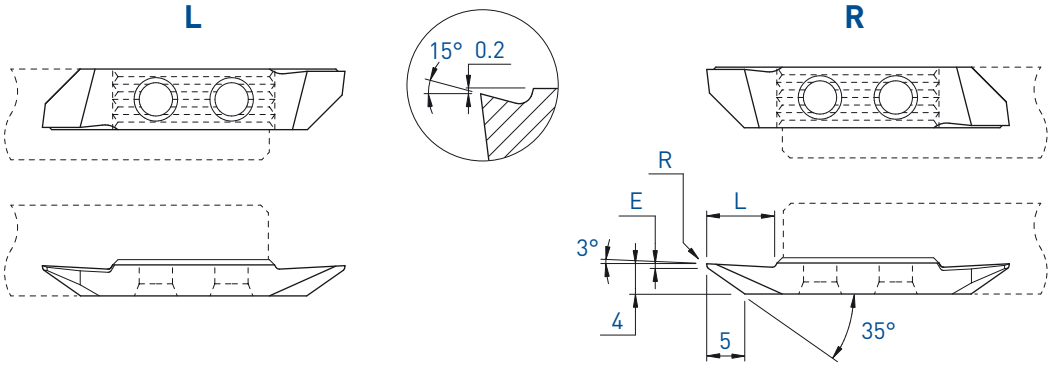
			R						
			P M N S	P M N	P S	P M N S	P M N	P N S
L	R	Art. N°	TiAlN	TiN	N (μK20)	HTA	HTiN	HN (μK10)
9	0.08	**763VX-800-R08**	●	●	●	●		●
9	0.20	**763VX-800-R20**	●	●	●	●		●

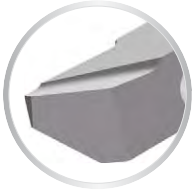


Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

Tournage arrière
Rückwärts drehen
Back turning

753VX-15° / 763VX-15°





			L							R						
				P M N S	P M N	P S	P M N S	P M N	P N S		P M N S	P M N	P S	P M N S	P M N	P N S
E	L	R	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)
0.6	9	0	**753VX-15°**	●	●	●				**763VX-15°**	●	●	●	●		●
0.6	9	0.08	**753VX-15°-R08**	●	●	●				**763VX-15°-R08**	●	●	●	●		●

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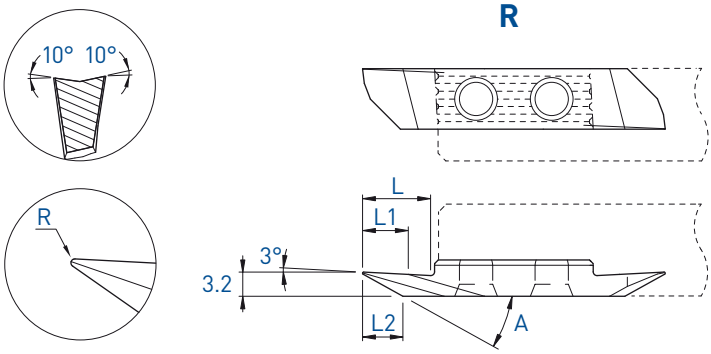
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

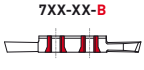
763VUX

Tournage arrière
Rückwärts drehen
Back turning



R

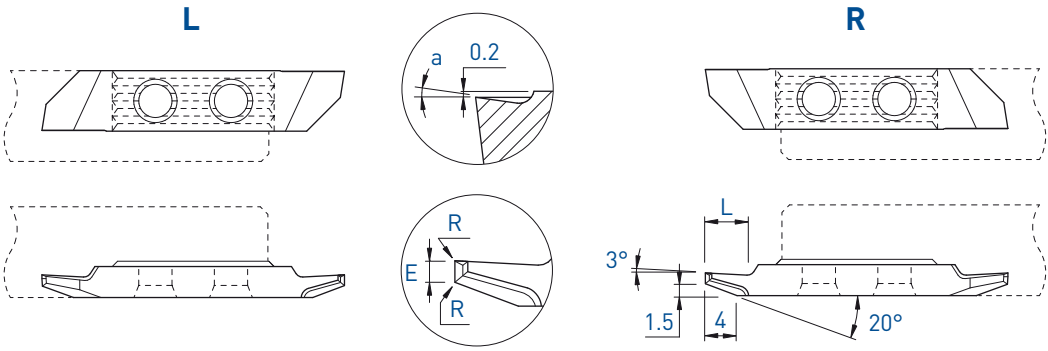
L	L1	L2	A	R	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)
9	6	5.6	29°	0.05	**763VUX10-29°-R05**	●	●	●	●
9	6	5.5	29°	0.08	**763VUX10-29°-R08**	●	●	●	●
9	6	5.3	29°	0.15	**763VUX10-29°-R15**	●	●	●	●
9	6	4.7	29°	0.35	**763VUX10-29°-R35**	●	●	●	●
9	6	3.6	29°	0.75	**763VUX10-29°-R75**	●	●	●	●
9	6	4.2	35°	0.15	**763VUX10-35°-R15**	●	●	●	●
9	6	3.8	35°	0.35	**763VUX10-35°-R35**	●	●	●	●



Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

Tournage arrière
Rückwärts drehen
Back turning

753ZX / 763ZX



Pour un meilleur contrôle des copeaux
Für eine bessere Spankontrolle
For a better chip-control

a	E	L	R	L Art. N°	TiAlN	TiN	N (µk20)	R Art. N°	TiAlN	TiN	N (µk20)
10°	1.0	5	0.01	753ZX10-1.0	●			763ZX10-1.0	●	●	
	1.0	5	0.08	-				763ZX10-1.0-R08	●	●	
	1.0	5	0.20	-				763ZX10-1.0-R20	●	●	

Arête de coupe honée
Gehonte Schneidkante
Honed edge

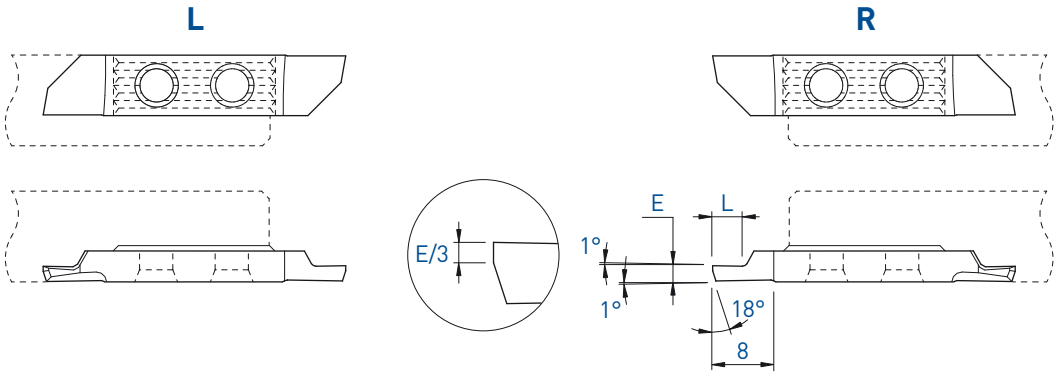
f min: 0.02 mm/U

7XX-XX-B

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

753P / 763P

Tournage arrière / pré-coupe
Rückwärts drehen / vorstechen
Back turning / pre-parting off



		L				R			
E	L	Art. N°	TiAlN	TiN	N (µK20)	Art. N°	TiAlN	TiN	N (µK20)
1.5	3	**753P-1.5**	●	●	●	**763P-1.5**	●	●	●
1.8	3.5	**753P-1.8**	●	●	●	**763P-1.8**	●	●	●
2.0	4	**753P-2.0**	●	●	●	**763P-2.0**	●	●	●
2.2	5	**753P-2.2**	●	●	●	**763P-2.2**	●	●	●
2.5	6	**753P-2.5**	●	●	●	**763P-2.5**	●	●	●
3.0	6	**753P-3.0**	●	●	●	**763P-3.0**	●	●	●

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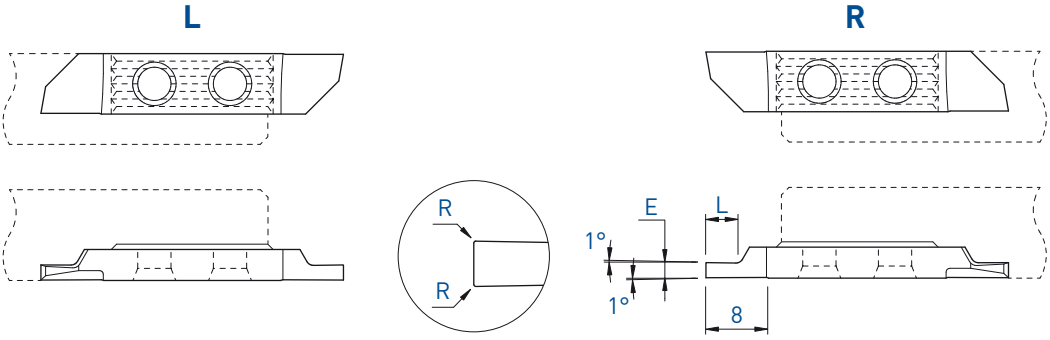
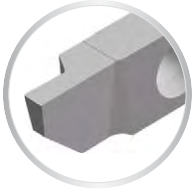
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

Fonçage-tournage
Einstechen und drehen
Grooving and turning

754 / 764

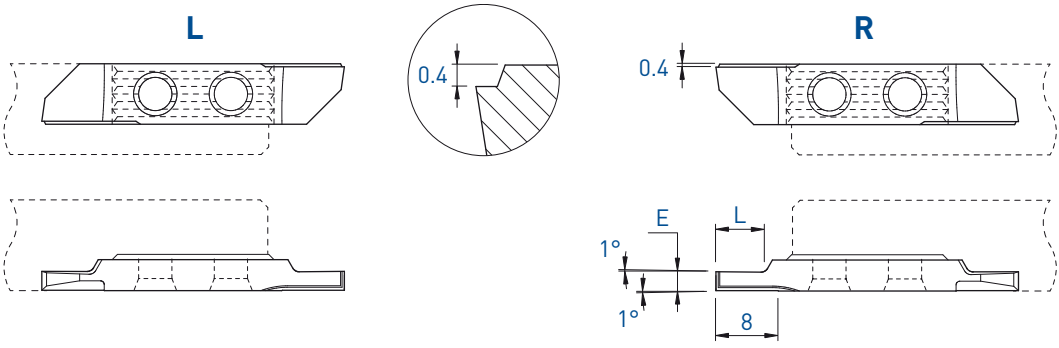




L										R								
E	L	R	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiAlX	TiN	N (µk20)	HTA	HTiN	HN (µk10)
0.5	1.5	0	**754-0.5**	●	●	●				**764-0.5**	●	●	●	●	●	●	●
0.75	2	0	**754-0.75**	●	●	●				**764-0.75**	●	●	●	●			
0.8	2	0	-							**764-0.8**	●	●	●	●	●		●
0.95	3	0	**754-0.95**	●	●	●	●		●	**764-0.95**	●	●	●	●			
1.0	2.5	0	**754-1.0**	●	●	●	●		●	**764-1.0**	●	●	●	●	●	●	●
1.0	2.5	0.08	**754-1.0-R08**	●	●	●				**764-1.0-R08**	●	●	●	●	●		●
1.2	3	0	**754-1.2**	●	●	●				**764-1.2**	●	●	●	●	●		●
1.5	3	0	**754-1.5**	●	●	●	●		●	**764-1.5**	●	●	●	●	●	●	●
1.5	3	0.08	**754-1.5-R08**	●	●	●	●		●	**764-1.5-R08**	●	●	●	●	●		●
1.5	3	0.15	-							**764-1.5-R15**	●	●		●	●		●
1.5	3	0.20	-							**764-1.5-R20**	●	●	●	●	●	●	●
1.8	4	0	**754-1.8**	●	●	●				**764-1.8**	●	●	●	●			
2.0	4	0	**754-2.0**	●	●	●	●	●	●	**764-2.0**	●	●	●	●	●	●	●
2.0	4	0.08	**754-2.0-R08**	●	●	●	●		●	**764-2.0-R08**	●	●	●	●	●		●
2.0	4	0.15	-							**764-2.0-R15**	●	●		●	●		●
2.0	4	0.20	**754-2.0-R20**	●	●	●				**764-2.0-R20**	●	●	●	●	●	●	●
2.5	6	0	**754-2.5**	●	●	●				**764-2.5**	●	●	●	●	●		●
2.5	6	0.15	-							**764-2.5-R15**	●	●		●	●		●
2.5	6	0.20	-							**764-2.5-R20**	●	●	●	●	●		●
3.0	6	0	**754-3.0**	●	●	●	●		●	**764-3.0**	●	●	●	●	●		●
3.0	6	0.08	**754-3.0-R08**	●	●	●				**764-3.0-R08**	●	●	●	●	●		●
3.0	6	0.15	-							**764-3.0-R15**	●	●		●	●		●
3.0	6	0.20	**754-3.0-R20**	●	●	●	●		●	**764-3.0-R20**	●	●	●	●			
4.0	8	0	**754-4.0**	●	●	●	●	●	●	**764-4.0**	●	●	●	●	●		●

754VS / 764VS

Fonçage-tournage
Einstechen und drehen
Grooving and turning



		L							R						
E	L	Art. N°	TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)	Art. N°	TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)
1.0	2	**754VS-1.0**	●	●	●				**764VS-1.0**	●	●	●			
1.2	2.5	**754VS-1.2**	●	●	●	●		●	**764VS-1.2**	●	●	●			
1.5	3	**754VS-1.5**	●	●	●				**764VS-1.5**	●	●	●			
2.0	4	**754VS-2.0**	●	●	●				**764VS-2.0**	●	●	●			
2.5	6	**754VS-2.5**	●	●	●				**764VS-2.5**	●	●	●	●		●
3.0	6	**754VS-3.0**	●	●	●				**764VS-3.0**	●	●	●			

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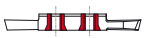
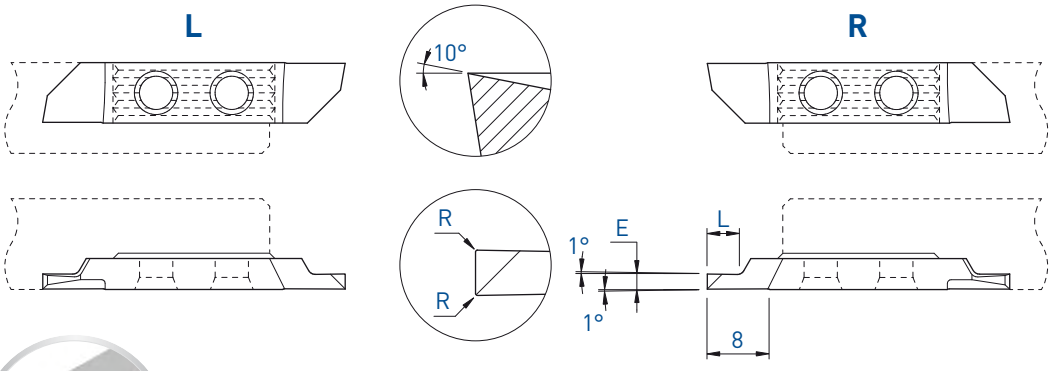
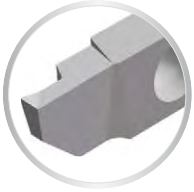


Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

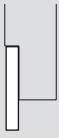
Fonçage-tournage
Einstechen und drehen
Grooving and turning

754X / 764X





L

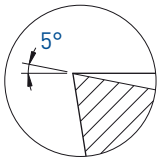


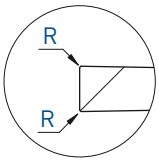
R

E	L	R	Art. N°	P M N S	P M N	P S	P M N S	P M N	P N S	Art. N°	P M N S	P M N S	P M S	P M N	P S	P M N S	P M N	P N S
				TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)		ST	TiAlN	TiAlX	TiN	N (µK20)	HTA	HTiN	HN (µK10)
1.0	2.5	0	**754X-1.0**	●	●	●	●	●	●	**764X-1.0**		●	●	●	●	●		●
1.0	2.5	0.08	**754X-1.0-R08**	●	●	●	●		●	**764X-1.0-R08**	●	●	●	●	●	●	●	●
1.0	2.5	0.20	-							**764X-1.0-R20**	●	●	●	●	●			
1.2	3	0	**754X-1.2**	●	●	●				**764X-1.2**		●	●	●	●	●		●
1.2	3	0.08	-							**764X-1.2-R08**	●	●	●	●	●			
1.5	3	0	**754X-1.5**	●	●	●	●		●	**764X-1.5**		●	●	●	●	●	●	●
1.5	3	0.08	**754X-1.5-R08**	●	●	●	●		●	**764X-1.5-R08**	●	●	●	●	●	●		●
1.5	3	0.15	-							**764X-1.5-R15**	●	●	●		●	●		●
1.5	3	0.20	**754X-1.5-R20**	●	●	●				**764X-1.5-R20**	●	●	●	●	●	●	●	●
1.8	4	0	**754X-1.8**	●	●	●				**764X-1.8**		●	●	●	●	●		●
1.8	4	0.20	-							**764X-1.8-R20**	●	●	●	●	●			
2.0	4	0	**754X-2.0**	●	●	●	●		●	**764X-2.0**		●	●	●	●	●	●	●
2.0	4	0.08	**754X-2.0-R08**	●	●	●	●		●	**764X-2.0-R08**	●	●	●	●	●	●	●	●
2.0	4	0.15	-							**764X-2.0-R15**	●	●	●		●	●		●
2.0	4	0.20	**754X-2.0-R20**	●	●	●	●		●	**764X-2.0-R20**	●	●	●	●	●	●		●
2.0	4	0.35	-							**764X-2.0-R35**	●	●	●		●	●		●
2.5	6	0	**754X-2.5**	●	●	●	●	●	●	**764X-2.5**		●	●	●	●	●	●	●
2.5	6	0.15	-							**764X-2.5-R15**	●	●	●		●	●		●
2.5	6	0.20	**754X-2.5-R20**	●	●	●	●		●	**764X-2.5-R20**	●	●	●	●	●	●		●
2.5	6	0.35	-							**764X-2.5-R35**	●	●	●		●	●		●
3.0	6	0	**754X-3.0**	●	●	●				**764X-3.0**		●	●	●	●	●		●
3.0	6	0.08	**754X-3.0-R08**	●	●	●				**764X-3.0-R08**	●	●	●	●	●	●		●
3.0	6	0.15	-							**764X-3.0-R15**	●	●	●	●	●	●		●
3.0	6	0.20	**754X-3.0-R20**	●	●	●				**764X-3.0-R20**	●	●	●	●	●	●		●
3.0	6	0.35	-							**764X-3.0-R35**	●	●	●		●	●		●
4.0	8	0	**754X-4.0**	●	●	●				**764X-4.0**		●	●	●	●	●		●
4.0	8	0.20	**754X-4.0-R20**	●	●	●				**764X-4.0-R20**	●	●	●	●	●	●		●
4.0	8	0.35	-							**764X-4.0-R35**	●	●	●		●	●		●

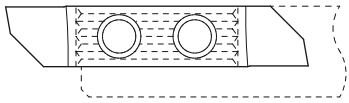
764X5-EP

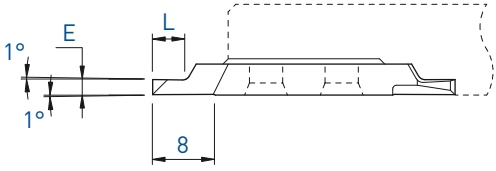
Fonçage-tournage
Einstechen und drehen
Grooving and turning

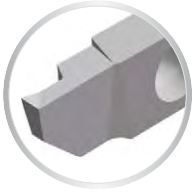




R





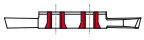


R

E	L	R	Art. N°	ST	TiAlN	TiAlX	TiN	N (µK20)
1.5	3	0.08	**764X5-1.5-R08-EP**	●	●	●	●	●
2.0	4	0.08	**764X5-2.0-R08-EP**	●	●	●	●	●
2.5	6	0.08	**764X5-2.5-R08-EP**	●	●	●	●	●
2.5	6	0.15	**764X5-2.5-R15-EP**	●	●	●	●	●
3.0	6	0.08	**764X5-3.0-R08-EP**	●	●	●	●	●
3.0	6	0.15	**764X5-3.0-R15-EP**	●	●	●	●	●
4.0	8	0.15	**764X5-4.0-R15-EP**	●	●	●	●	●
4.0	8	0.35	**764X5-4.0-R35-EP**	●	●	●	●	●

Arête de coupe honée
Gehonte Schneidkante
Honed edge

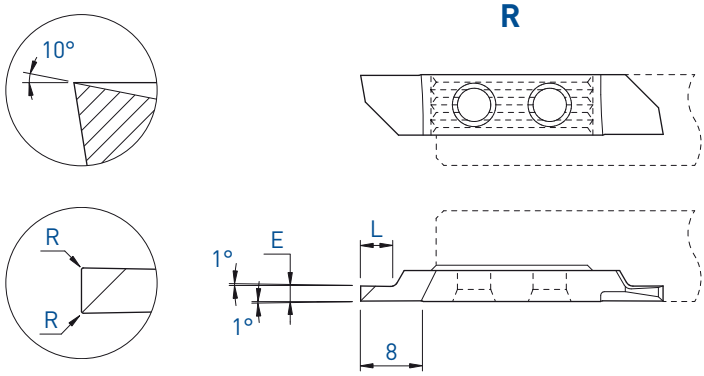
f min: 0.02 mm/U

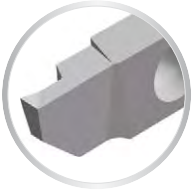


Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

Fonçage-tournage
Einstechen und drehen
Grooving and turning

764X10-EP





R

E	L	R	Art. N°	ST	TiAlN	TiAlX	TiN	N (µK20)
				P M N S	P M N S	P M S	P M N	P S
1.5	3	0.08	**764X10-1.5-R08-EP**	●	●	●	●	●
2.0	4	0.08	**764X10-2.0-R08-EP**	●	●	●	●	●
2.5	6	0.08	**764X10-2.5-R08-EP**	●	●	●	●	●
2.5	6	0.15	**764X10-2.5-R15-EP**	●	●	●	●	●
3.0	6	0.08	**764X10-3.0-R08-EP**	●	●	●	●	●
3.0	6	0.15	**764X10-3.0-R15-EP**	●	●	●	●	●
4.0	8	0.15	**764X10-4.0-R15-EP**	●	●	●	●	●
4.0	8	0.35	**764X10-4.0-R35-EP**	●	●	●	●	●

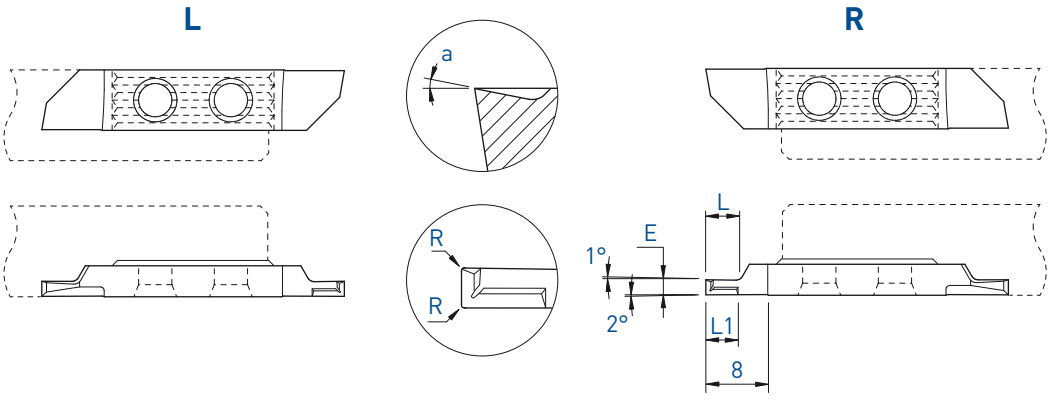
Arête de coupe honée
Gehonte Schneidkante
Honed edge

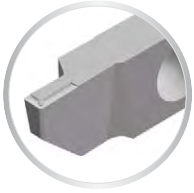
f min: 0.02 mm/U

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

754ZX / 764ZX

Fonçage-tournage
Einstechen und drehen
Grooving and turning





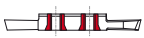
Pour un meilleur contrôle des copeaux
Für eine bessere Spankontrolle
For a better chip-control

Arête de coupe honée
Gehonte Schneidkante
Honed edge

f min: 0.02 mm/U

					L								R							
a	E	L	L1	R	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HAC	HN (µk10)	Art. N°	TiAlN	TiAlX	TiN	N (µk20)	HTA	HTiN	HAC	HN (µk10)
10°	1.5	4	4	0.03	**754ZX10-1.5-R03**	●							**764ZX10-1.5-R03**	●	●	●					
	1.5	4	4	0.08	**754ZX10-1.5-R08**	●							**764ZX10-1.5-R08**	●	●	●					
	2.0	4	4	0.08	**754ZX10-2.0-R08**	●							**764ZX10-2.0-R08**	●	●	●					
	2.0	4	4	0.20	-								**764ZX10-2.0-R20**	●	●	●					
	2.5	5	5	0.08	**754ZX10-2.5-R08**	●	●						**764ZX10-2.5-R08**	●	●	●					
	2.5	5	5	0.20	-								**764ZX10-2.5-R20**	●	●	●					
	3.0	6	6	0.08	**754ZX10-3.0-R08**	●							**764ZX10-3.0-R08**	●	●	●					
	3.0	6	6	0.20	-								**764ZX10-3.0-R20**	●	●	●					
	4.0	6	6	0.20	-								**764ZX10-4.0-R20**	●	●						
25°	2.0	4	4	0.08	-								**764ZX25-2.0-R08**					●		●	
	2.0	4	4	0.20	-								**764ZX25-2.0-R20**					●		●	
	2.5	5	5	0.08	-								**764ZX25-2.5-R08**					●		●	
	2.5	5	5	0.20	-								**764ZX25-2.5-R20**					●		●	

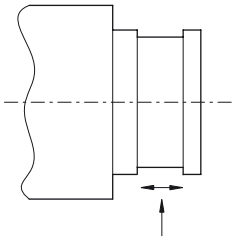
7XX-XX-B

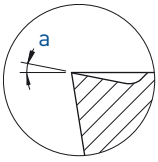


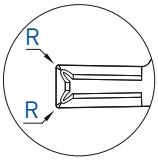
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

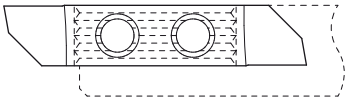
Fonçage-tournage
Einstechen und drehen
Grooving and turning

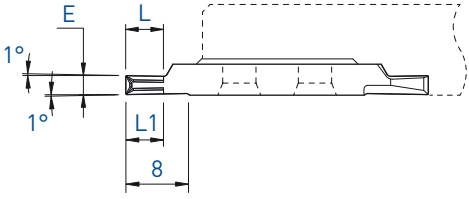
764ZXB





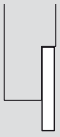




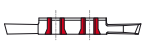


Arête de coupe honée
Gehonte Schneidkante
Honed edge

f min: 0.02 mm/U



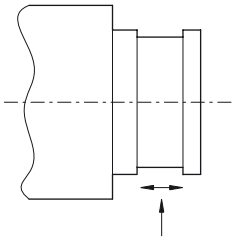
a	E	L	L1	R	Art. N°	ST	TiAlN	TiAlX	TiN	N (µK20)
10°	1.5	4	4	0.08	**764ZXB10-1.5-R08**	●	●	●		
	2.0	4	4	0.08	**764ZXB10-2.0-R08**	●	●	●		
	2.0	4	4	0.15	**764ZXB10-2.0-R15**	●	●	●		
	2.0	4	4	0.35	**764ZXB10-2.0-R35**	●	●	●		
	2.5	5	5	0.08	**764ZXB10-2.5-R08**	●	●	●		
	2.5	5	5	0.15	**764ZXB10-2.5-R15**	●	●	●		
	2.5	5	5	0.35	**764ZXB10-2.5-R35**	●	●	●		
	3.0	6	6	0.08	**764ZXB10-3.0-R08**	●	●	●		
	3.0	6	6	0.15	**764ZXB10-3.0-R15**	●	●	●		
	3.0	6	6	0.35	**764ZXB10-3.0-R35**	●	●	●		

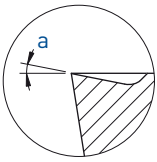


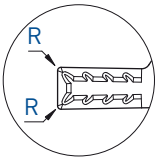
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

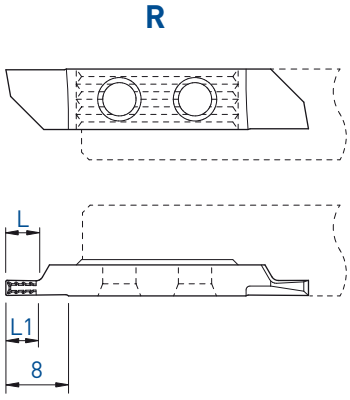
754ZXT / 764ZXT

Fonçage-tournage
Einstechen und drehen
Grooving and turning





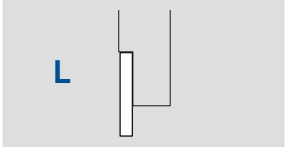


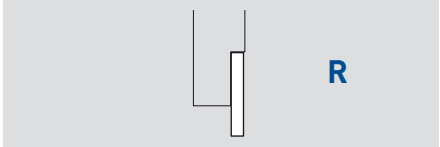


Pour un meilleur contrôle des copeaux
Für eine bessere Spankontrolle
For a better chip-control

Arête de coupe honée
Gehonte Schneidkante
Honed edge

f min: 0.02 mm/U



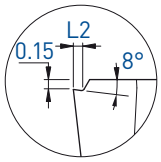


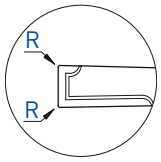
a	E	L	L1	R	Art. N°	TiAlN	TiN	N (µk20)	Art. N°	ST	TiAlN	TiAlX	TiN	N (µk20)	HTA	HN (µk10)
	1.5	4	4	0.03	-				764ZXT10-1.5-R03	●	●	●				
	1.5	4	4	0.08	754ZXT10-1.5-R08	●			764ZXT10-1.5-R08	●	●	●	●			
	1.5	4	4	0.20	754ZXT10-1.5-R20	●			-							
	2.0	4	4	0.08	754ZXT10-2.0-R08	●			764ZXT10-2.0-R08	●	●	●	●			
	2.0	4	4	0.20	754ZXT10-2.0-R20	●			764ZXT10-2.0-R20	●	●	●	●			
	2.0	4	4	0.40	-				764ZXT10-2.0-R40	●	●	●				
	2.5	5	5	0.08	754ZXT10-2.5-R08	●			764ZXT10-2.5-R08	●	●	●	●			
10°	2.5	5	5	0.20	754ZXT10-2.5-R20	●			764ZXT10-2.5-R20	●	●	●				
	2.5	5	5	0.40	-				764ZXT10-2.5-R40	●	●	●				
	3.0	6	6	0.08	754ZXT10-3.0-R08	●	●		764ZXT10-3.0-R08	●	●	●				
	3.0	6	6	0.20	-				764ZXT10-3.0-R20	●	●	●			●	
	3.0	6	6	0.40	-				764ZXT10-3.0-R40	●	●	●				
	4.0	8	8	0.20	-				764ZXT10-4.0-R20	●	●	●	●			
	4.0	8	8	0.40	-				764ZXT10-4.0-R40	●	●	●	●			
	4.0	8	8	0.80	-				764ZXT10-4.0-R80	●	●	●				

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

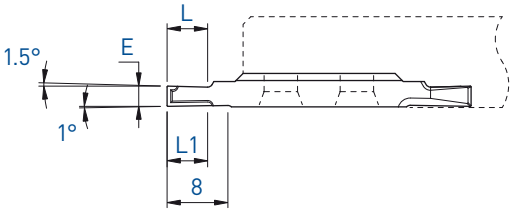
Fonçage-tournage
Einstechen und drehen
Grooving and turning

764ZF-X





R



R

E	L	L1	L2	R	Art. N°	KCR	KN (µk10-20)
						N S	P M N S
1.5	3	2.5	0.24	0.08	**764ZF-X824-1.5-R08**	●	●
1.5	3	2.5	0.36	0.08	**764ZF-X836-1.5-R08**	●	●
2.0	4	3	0.24	0.08	**764ZF-X824-2.0-R08**	●	●
2.0	4	3	0.36	0.08	**764ZF-X836-2.0-R08**	●	●
2.0	4	3	0.48	0.15	**764ZF-X848-2.0-R15**	●	●
2.5	6	4	0.24	0.08	**764ZF-X824-2.5-R08**	●	●
2.5	6	4	0.36	0.08	**764ZF-X836-2.5-R08**	●	●
2.5	6	4	0.48	0.15	**764ZF-X848-2.5-R15**	●	●
3.0	6	4	0.36	0.08	**764ZF-X836-3.0-R08**	●	●
3.0	6	4	0.48	0.15	**764ZF-X848-3.0-R15**	●	●

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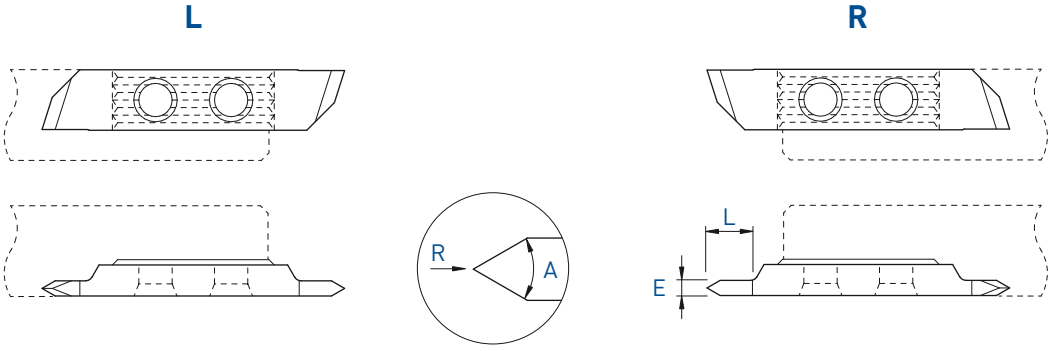
Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

756 / 766

Filetage
Gewinde drehen
Threading



Profil partiel
Teilprofil
Partial profile

L										R							
A	E	L	R	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)
60°	2.0	6	0	**756-60-2.0**	●	●	●				**766-60-2.0**	●	●	●			
60°	2.0	6	0.02	**756-60-2.0-R02**	●	●	●	●		●	**766-60-2.0-R02**	●	●	●	●		●
60°	3.0	8	0	**756-60-3.0**	●	●	●				**766-60-3.0**	●	●	●			
60°	3.0	8	0.02	**756-60-3.0-R02**	●	●	●	●		●	**766-60-3.0-R02**	●	●	●	●		●
55°	2.0	6	0	**756-55-2.0**	●	●	●				**766-55-2.0**	●	●	●			
55°	2.0	6	0.02	**756-55-2.0-R02**	●	●	●				**766-55-2.0-R02**	●	●	●			
55°	3.0	8	0	**756-55-3.0**	●	●	●				**766-55-3.0**	●	●	●			
55°	3.0	8	0.02	**756-55-3.0-R02**	●	●	●				**766-55-3.0-R02**	●	●	●			

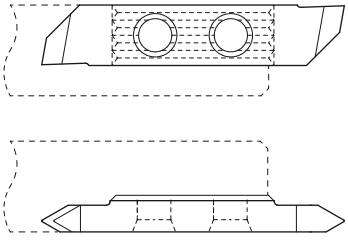
7XX-XX-B

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

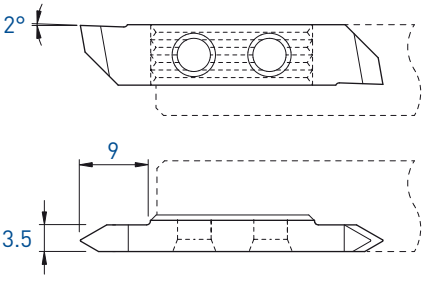
Filetage
Gewinde drehen
Threading

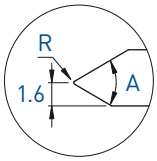
756-AG60° / 766-AG60°
756-G60° / 766-G60°

L



R

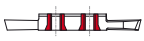




Profil partiel
Teilprofil
Partial profile

L							R				
A	R	Pas Steigung Pitch P	Art. N°	TiAlN	TiN	N (µk20)	Art. N°	TiAlN	TiN	N (µk20)
60°	0.06	0.50-1.50	**756-AG60°**	●	●	●	**766-AG60°**	●	●	●
60°	0.20	1.75-3.00	**756-G60°**	●	●	●	**766-G60°**	●	●	●

7XX-XX-B

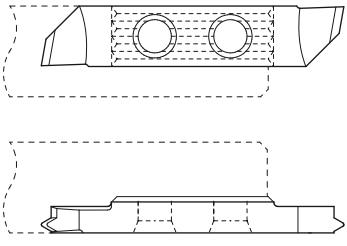


Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

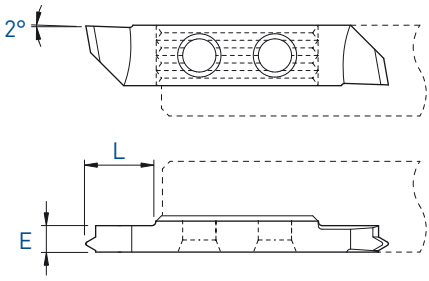
756-M / 766-M

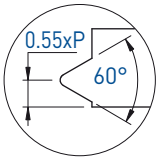
Filetage
Gewinde drehen
Threading

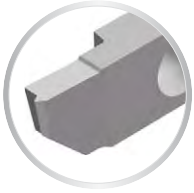
L



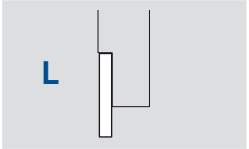
R

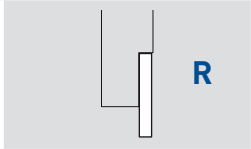






Profil complet métrique
Metrisches Vollprofil
Metric full profile

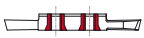




E	L	Pas Steigung Pitch P	Art. N°	P M N S TiAlN	P M N TiN	P S N (µk20)	Art. N°	P M N S TiAlN	P M N TiN	P S N (µk20)
2.5	8	0.80	**756-M-0.80**	●	●	●	**766-M-0.80**	●	●	●
2.5	8	1.00	**756-M-1.00**	●	●	●	**766-M-1.00**	●	●	●
2.5	8	1.25	**756-M-1.25**	●	●	●	**766-M-1.25**	●	●	●
3.5	9	1.50	**756-M-1.50**	●	●	●	**766-M-1.50**	●	●	●
3.5	9	1.75	**756-M-1.75**	●	●	●	**766-M-1.75**	●	●	●
3.5	9	2.00	**756-M-2.00**	●	●	●	**766-M-2.00**	●	●	●

Pour de plus petits pas, voir page 1.86
Für kleinere Steigungen, siehe Seite 1.86
For smaller pitches, see page 1.86

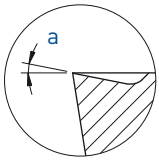
7XX-XX-B

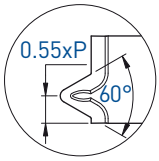


Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

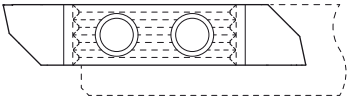
Filetage
Gewinde drehen
Threading

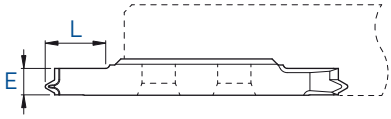
766ZX





R





Profil partiel
Teilprofil
Partial profile

R

a	E	L	P	Art. N°	ST	TiAlN
10°	2.5	8	0.80	**766ZX10-M-0.80**	●	●
	2.5	8	1.00	**766ZX10-M-1.00**	●	●
	2.5	8	1.25	**766ZX10-M-1.25**	●	●
	3.5	9	1.50	**766ZX10-M-1.50**	●	●
	3.5	9	1.75	**766ZX10-M-1.75**	●	●
	3.5	9	2.00	**766ZX10-M-2.00**	●	●

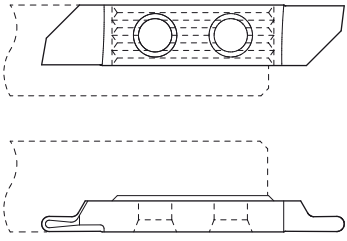
Arête de coupe honée
Gehonte Schneidkante
Honed edge

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

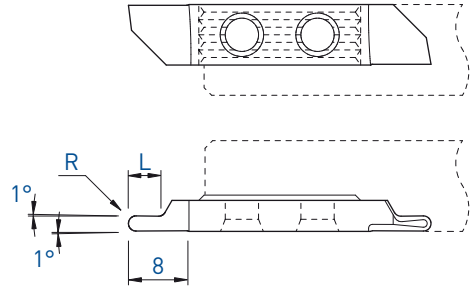
757 / 767

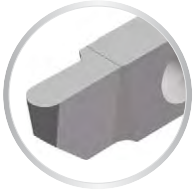
Plaquettes à rayon
Radius Wendeplatten
Radius inserts

L



R



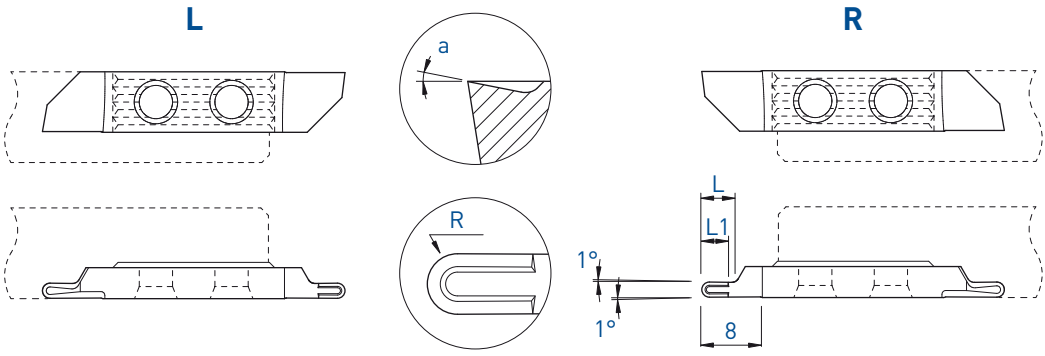


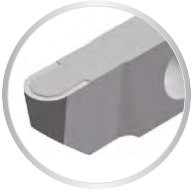
		L				R			
R	L	Art. N°	TiAlN	TiN	N (µK20)	Art. N°	TiAlN	TiN	N (µK20)
0.5	2.5	**757-R0.5**	●	●	●	**767-R0.5**	●	●	●
1.0	4	**757-R1.0**	●	●	●	**767-R1.0**	●	●	●
1.5	6	**757-R1.5**	●	●	●	**767-R1.5**	●	●	●
2.0	8	**757-R2.0**	●	●	●	**767-R2.0**	●	●	●

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

Plaquettes à rayon
Radius Wendeplatten
Radius inserts

757ZX / 767ZX



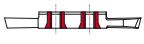


Pour un meilleur contrôle des copeaux
Für eine bessere Spankontrolle
For a better chip-control

				L				R					
a	R	L	L1	Art. N°	TiAlN	TiN	N (µK20)	Art. N°	TiAlN	TiN	N (µK20)	HTA	HN (µK10)
10°	1.0	4	3.5	**757ZX10-R1.0**	●			**767ZX10-R1.0**	●	●			
	1.5	6	4.0	**757ZX10-R1.5**	●			**767ZX10-R1.5**	●	●			
	2.0	8	4.5	**757ZX10-R2.0**	●			**767ZX10-R2.0**	●	●		●	

Arête de coupe honée
Gehonte Schneidkante
Honed edge

f min: 0.02 mm/U

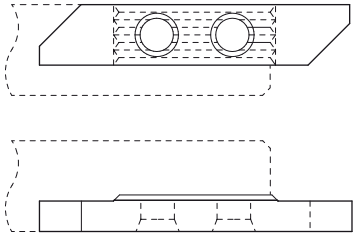


Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

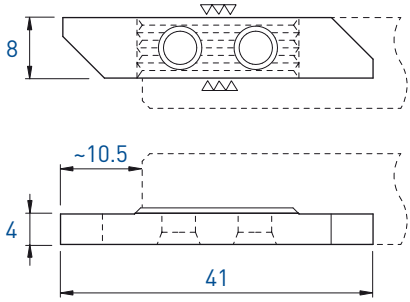
751-E / 761-E

Plaquettes ébauches
WSP-Rohlinge
Blank inserts

L



R



L			R		
Art. N°	N (µK20)	HN (µK10)	Art. N°	N (µK20)	HN (µK10)
751-E	●	●	761-E	●	●

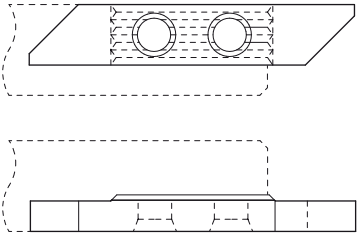
7XX-XX-B

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

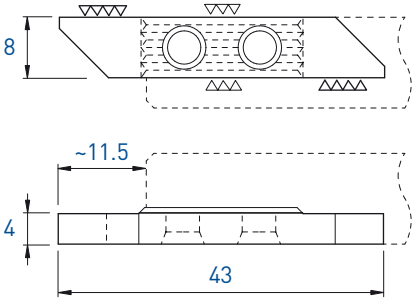
Plaquettes ébauches
WSP-Rohlinge
Blank inserts

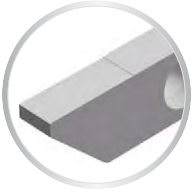
751-EP / 761-EP

L



R





Face de coupe polie
Polierte Schneidfläche
Polished cutting face

L							R						
Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)	Art. N°	TiAlN	TiN	N (µk20)	HTA	HTiN	HN (µk10)
751-EP	●	●	●	●		●	761-EP	●	●	●	●		●

7XX-XX-B

Sur demande pour serrage type B, voir page 1.05
Auf Anfrage für B-Spannsystem, siehe Seite 1.05
On request for B clamping system, see page 1.05

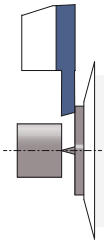
L

Type		Page
770	770	1.166
	770-JET	1.167
	770RC	1.168
771	771	1.169
	771-E	1.175
	771R	1.171
	771RD	1.174
	771RU	1.172
	771RXF	1.173
	771XF	1.170

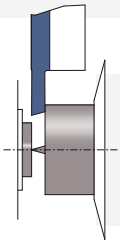
R

Type		Page
780	780	1.167
	780-JET	1.167
781	781	1.169
	781-E	1.175
	781L	1.171
	781LXF	1.173
	781XF	1.170

770 / 780
Porte-outils
Halter
Holders
> 1.166



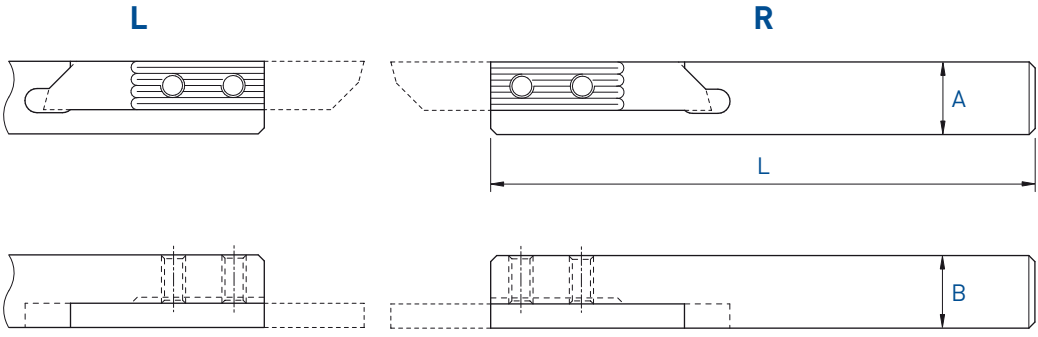
771 / 781
Tronçonnage
Abstechen
Parting off
> 1.169



781L / 771R
Tronçonnage - coupe déportée
Abstechen - versetztes Schneiden
Parting off - cut off line
> 1.171

770 / 780

Porte-outils
Halter
Holders

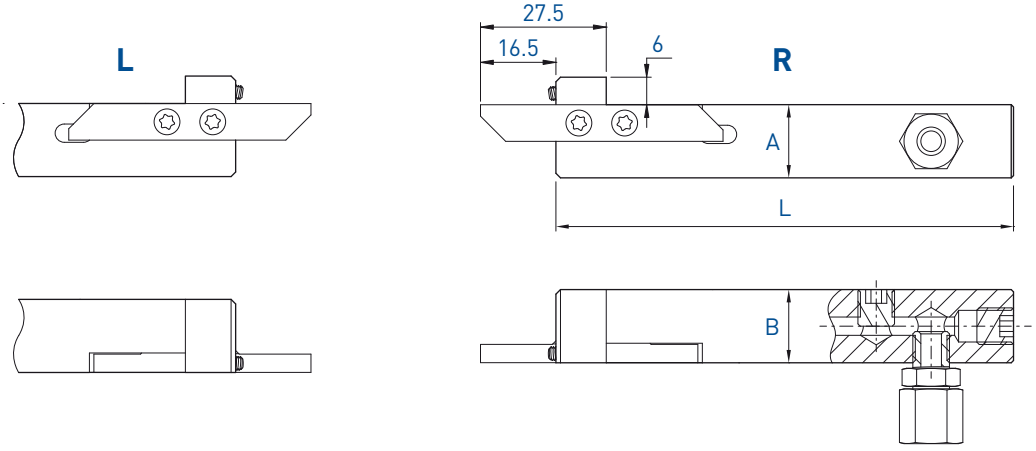


A x B	L	Serrage Spannsystem Clamping	L Art. N°	R Art. N°
10 x 10	115	A	**770-10**	**780-10**
12 x 12	130	A	**770-12**	**780-12**
12 x 12	90	A	**770-12-90**	**780-12-90**
12.7 x 12.7	130	A	**770-12.7**	**780-12.7**
14 x 14	130	A	**770-14**	**780-14**
16 x 16	130	A	**770-16**	**780-16**
16 x 16	75	A	**770-16-75**	**780-16-75**
20 x 20	120	A	**770-20**	**780-20**
25 x 25	140	A	**770-25**	**780-25**

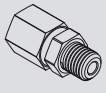
Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

Porte-outils avec arrosage intégré
Halter mit integrierter Kühlmittelzufuhr
Holders with integrated coolant supply

770-JET / 780-JET



A x B	L	Serrage Spannsystem Clamping	L Art. N°	R Art. N°
16 x 16	100	A	**770-16-JET**	**780-16-JET**

Pièces de rechange Ersatzteile Spare parts			Buses Düsen Nozzles
	Art. N°	**Art. N°**	**Art. N°**
770-JET / 780-JET	**J-M8X1-D6**	**JB-M8X1**	**JJ-M3X6-D1.5**
			More option see JET-Line

Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

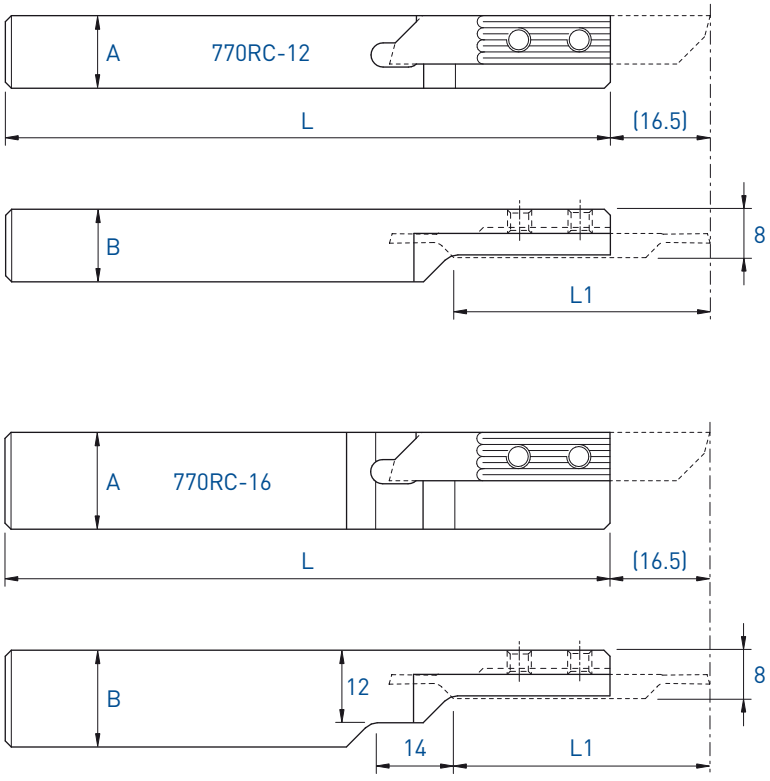
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.

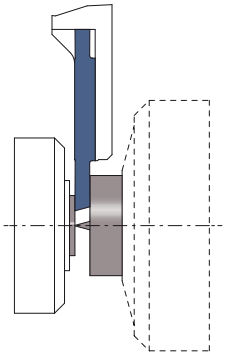
Each holder is supplied with one or more screws.
The keys must be ordered separately.

770RC

Coupe déportée
Versetztes Schneiden
Cut off line

Porte-outils
Halter
Holders





Utiliser des plaquettes type 771R
WSP Typ 771R verwenden
Use inserts type 771R

Voir pages 1.171 - 1.174
Siehe Seiten 1.171 - 1.174
See pages 1.171 - 1.174

L (R)

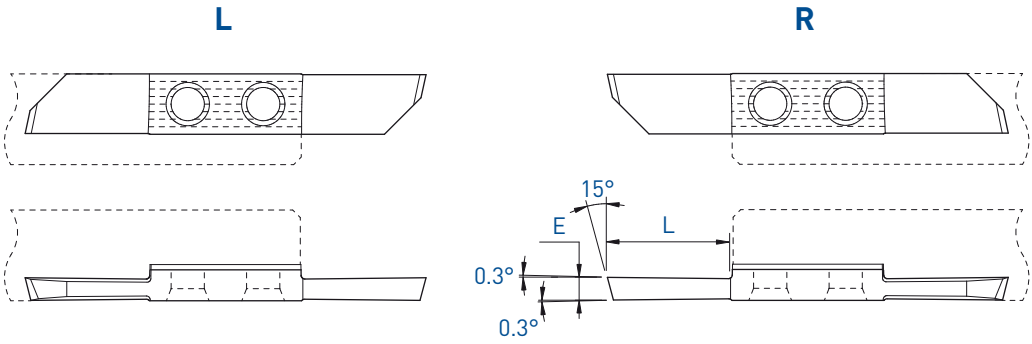
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

A x B	L	L1	Serrage Spannsystem Clamping	Art. N°
12 x 12	130	42	A	**770RC-12**
16 x 16	130	42	A	**770RC-16**

Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

Tronçonnage
Abstechen
Parting off

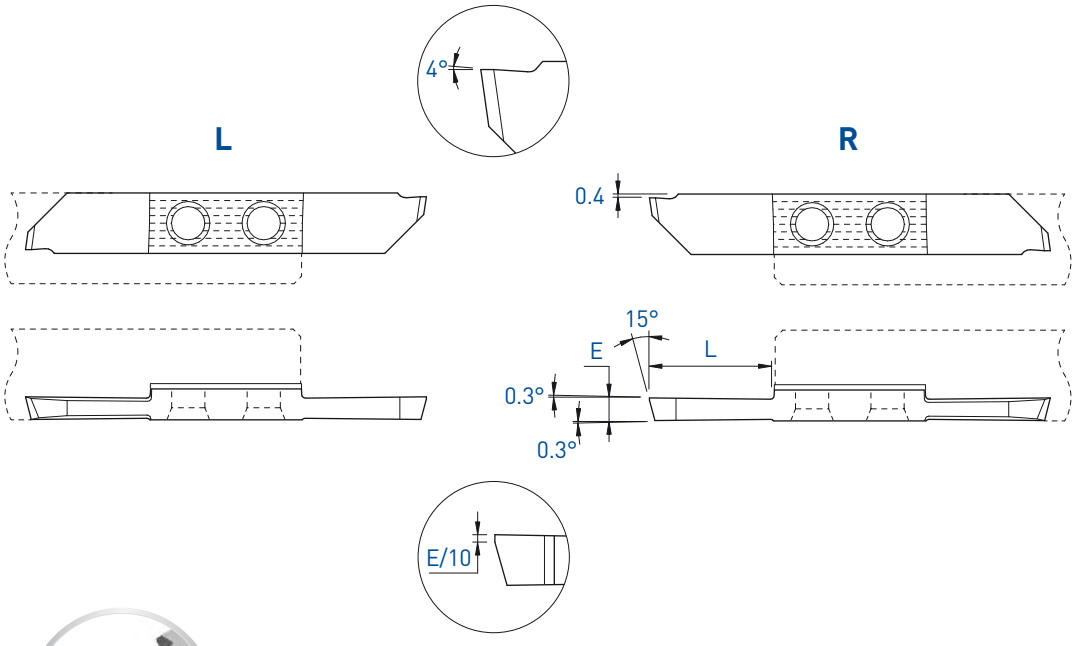
771 / 781



		L				R			
E	L	Art. N°	P M N S TiAlN	P M N TiN	P S N (µk20)	Art. N°	P M N S TiAlN	P M N TiN	P S N (µk20)
1.5	16	-				**781-1.5**	●	●	●
2.0	16	**771-2.0**	●	●	●	**781-2.0**	●	●	●
2.5	16	**771-2.5**	●	●	●	**781-2.5**	●	●	●
3.0	16	**771-3.0**	●	●	●	**781-3.0**	●	●	●
3.5	16	**771-3.5**	●	●	●	**781-3.5**	●	●	●

771XF / 781XF

Tronçonnage
Abstechen
Parting off



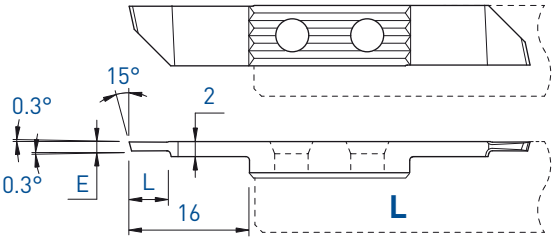
		L				R			
E	L	Art. N°	P M N S TiAlN	P M N TiN	P S N (µk20)	Art. N°	P M N S TiAlN	P M N TiN	P S N (µk20)
2.0	16	-				781XF-2.0	●	●	●
2.5	16	771XF-2.5	●	●	●	781XF-2.5	●	●	●
3.0	16	771XF-3.0	●	●	●	781XF-3.0	●	●	●
3.5	16	771XF-3.5	●	●	●	781XF-3.5	●	●	●

Tronçonnage
Abstechen
Parting off

Coupe déportée
Versetztes Schneiden
Cut off line

781L / 771R

Cut R

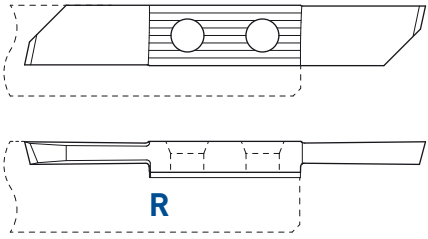


L (R)

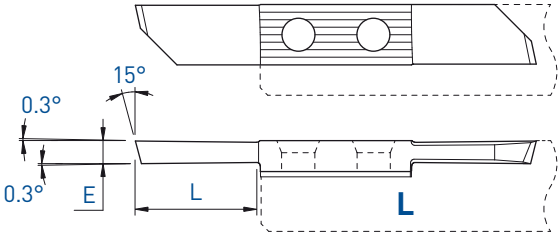
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

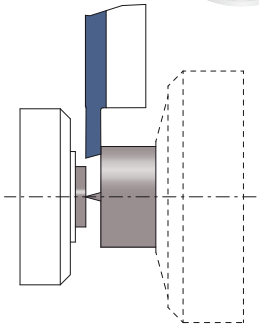
E	L	Art. N°	TiAlN	TiN	N (µk20)
1.0	5	**771R-1.0**	●	●	●
1.2	5	**771R-1.2**	●	●	●
1.5	8.5	**771R-1.5**	●	●	●

Cut L



Cut R





R (L)

Coupe à gauche déportée
Versetztes Linksschneiden
Left cut off line

L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

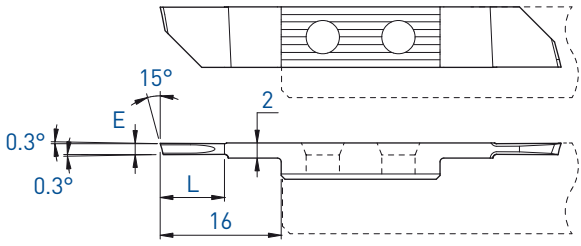
E	L	Art. N°	TiAlN	TiN	N (µk20)	Art. N°	TiAlN	TiN	N (µk20)
2.0	16	**781L-2.0**	●	●	●	**771R-2.0**	●	●	●
2.5	16	**781L-2.5**	●	●	●	**771R-2.5**	●	●	●
3.0	16	**781L-3.0**	●	●	●	**771R-3.0**	●	●	●
3.5	16	**781L-3.5**	●	●	●	**771R-3.5**	●	●	●

771RU

Coupe déportée
Versetztes Schneiden
Cut off line

Tronçonnage
Abstechen
Parting off

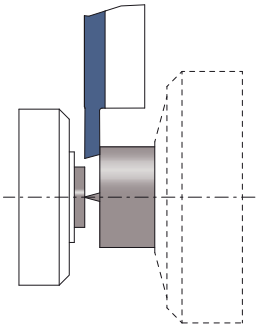
Cut R



L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

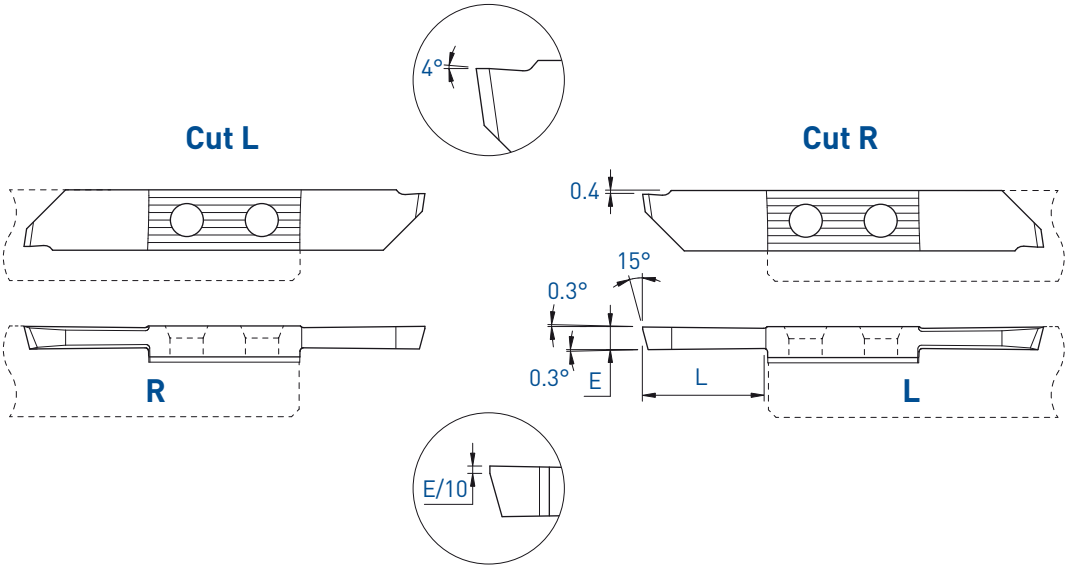
E	L	Art. N°	P M N S TiAlN	P M N TiN	P S N (µk20)
1.0	5	**771RU-1.0**	●		●
1.5	8.5	**771RU-1.5**	●		●

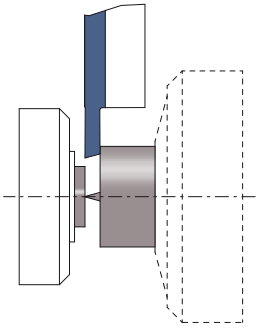


Tronçonnage
Abstechen
Parting off

Coupe déportée
Versetztes Schneiden
Cut off line

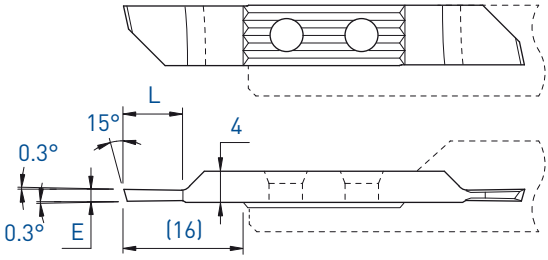
781LXF / 771RXF

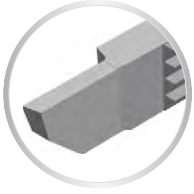




		R (L) Coupe à gauche déportée Versetztes Linksschneiden Left cut off line				L (R) Coupe à droite déportée Versetztes Rechtsschneiden Right cut off line			
E	L	Art. N°	TiAlN	TiN	N (µk20)	Art. N°	TiAlN	TiN	N (µk20)
2.0	16	-				771RXF-2.0	●	●	●
2.5	16	781LXF-2.5	●	●	●	771RXF-2.5	●	●	●
3.0	16	781LXF-3.0	●	●	●	771RXF-3.0	●	●	●
3.5	16	781LXF-3.5	●	●	●	771RXF-3.5	●	●	●

Cut R

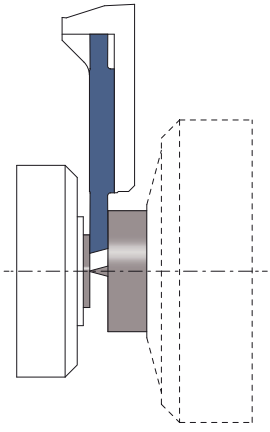


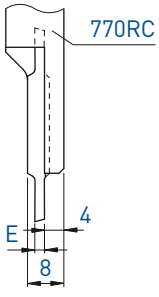


L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

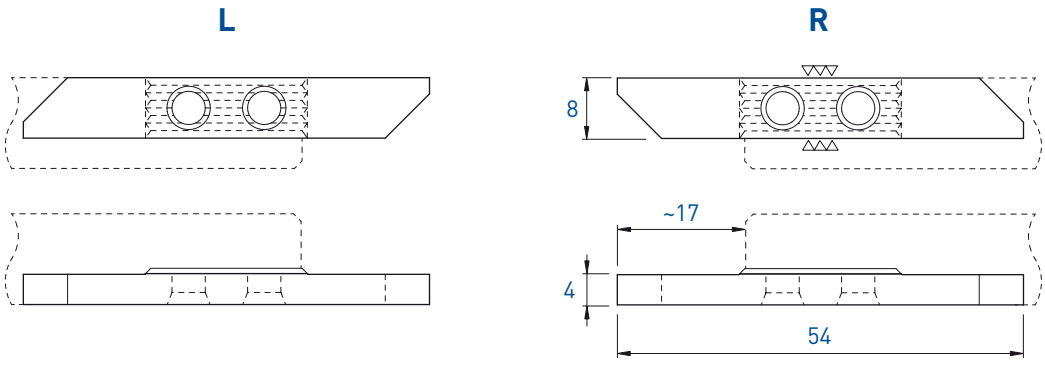
E	L	Art. N°	TiAlN	TiN	N (µk20)
1.2	5	**771RD-1.2**	●	●	●
1.5	7.5	**771RD-1.5**	●	●	●
2.0	10	**771RD-2.0**	●	●	●

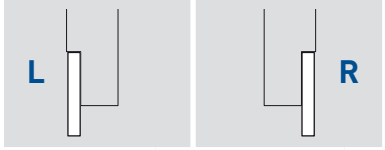




Plaquettes ébauches
WSP-Rohlinge
Blank inserts

771-E / 781-E





Art. N°	P S N (µk20)	Art. N°	P S N (µk20)
771-E	●	781-E	●

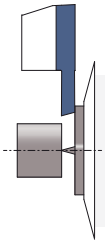
L

Type		Page
7050	7050	1.178
	7051	1.179
	7051-E	1.183
	7051R	1.181
	7051RXF	1.182
	7051XF	1.180

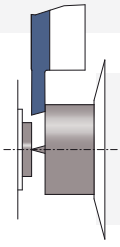
R

Type		Page
7060	7060	1.178
	7061	1.179
	7061-E	1.183
	7061L	1.181
	7061LXF	1.182
	7061XF	1.180

7050 / 7060
Porte-outils
Halter
Holders
> 1.178



7051 / 7061
Tronçonnage
Abstechen
Parting off
> 1.179

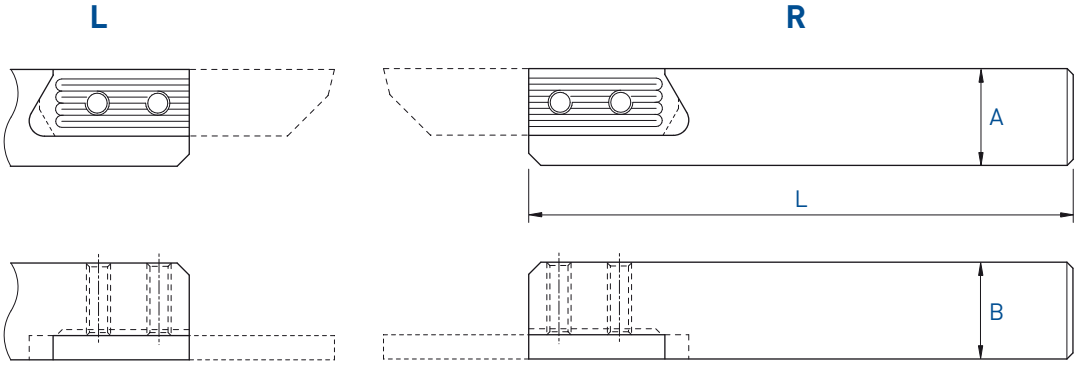


7051R / 7061L
Tronçonnage - coupe déportée
Abstechen - versetztes Schneiden
Parting off - cut off line
> 1.181

Plaquettes ébauches
WSP-Rohlinge
Blank inserts
> 1.183

7050 / 7060

Porte-outils
Halter
Holders

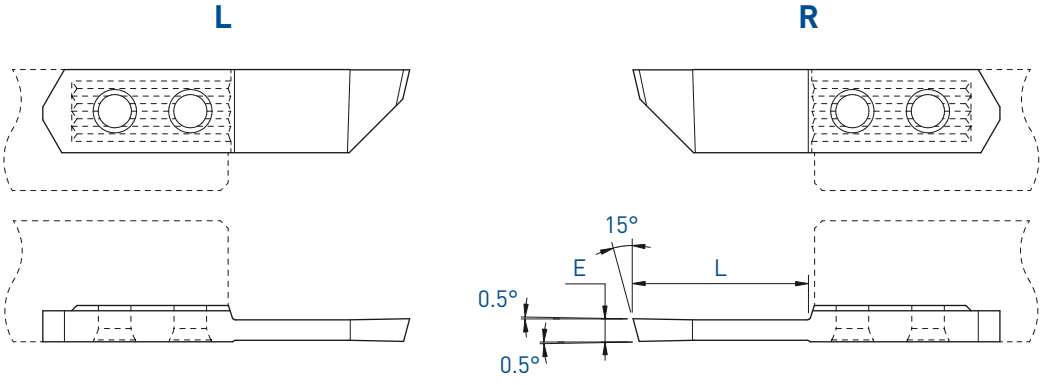


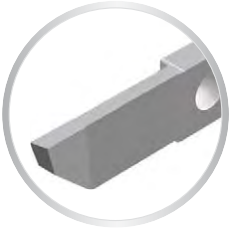
A x B	L	Serrage Spannsystem Clamping	L **Art. N°**	R **Art. N°**
16 x 16	130	A	**7050-16**	**7060-16**
16 x 16	75	A	**7050-16-75**	**7060-16-75**
20 x 20	120	A	**7050-20**	**7060-20**
25 x 25	140	A	**7050-25**	**7060-25**

Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

Tronçonnage
Abstechen
Parting off

7051 / 7061

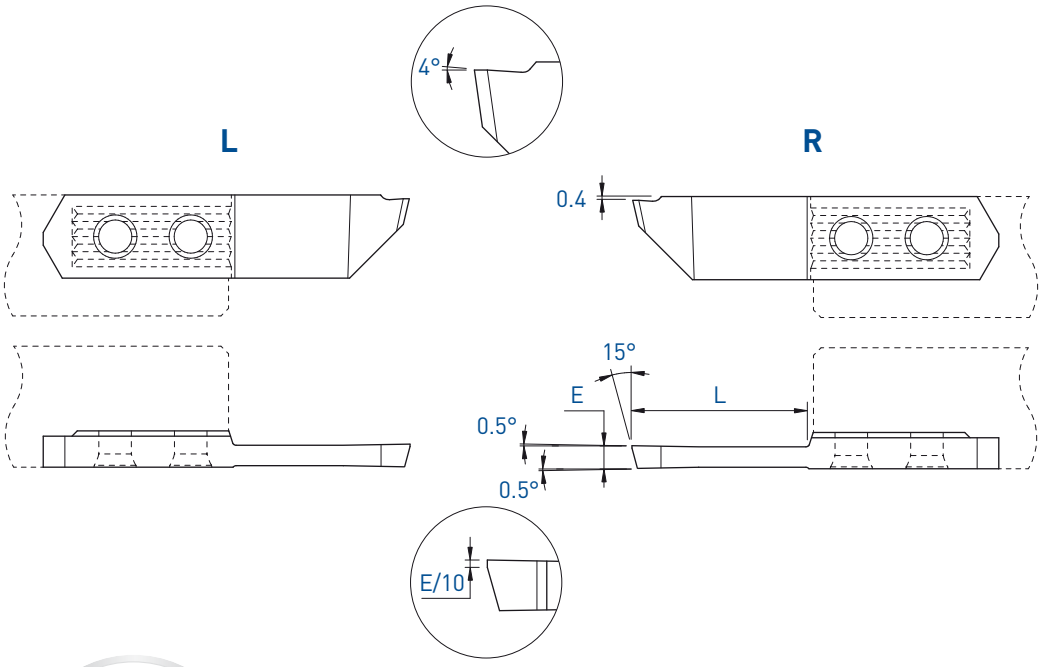




		L				R			
E	L	Art. N°	P M N S TiAlN	P M N TiN	P S N (µK20)	Art. N°	P M N S TiAlN	P M N TiN	P S N (µK20)
2.5	22	-				7061-2.5	●	●	●
3.0	22	7051-3.0	●	●	●	7061-3.0	●	●	●
3.5	22	-				7061-3.5	●	●	●

7051XF / 7061XF

Tronçonnage
Abstechen
Parting off



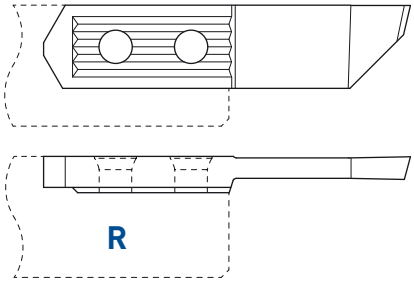
		L				R			
E	L	Art. N°	TiAlN	TiN	N (µk20)	Art. N°	TiAlN	TiN	N (µk20)
3.0	22	**7051XF-3.0**	●	●	●	**7061XF-3.0**	●	●	●

Tronçonnage
Abstechen
Parting off

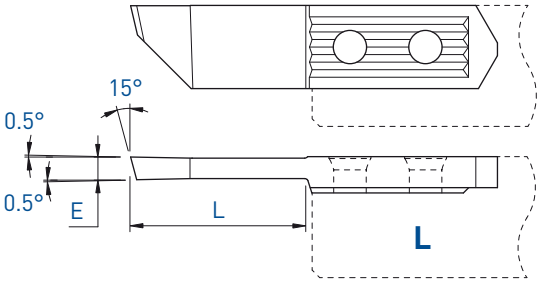
Coupe déportée
Versetztes Schneiden
Cut off line

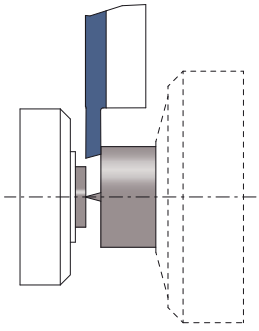
7061L / 7051R

Cut L



Cut R



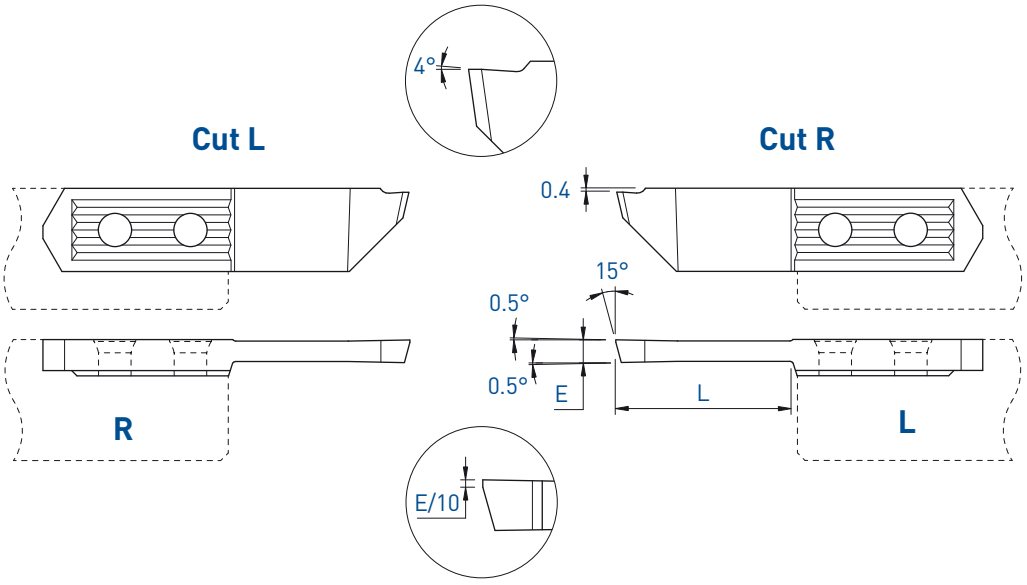


		R (L) Coupe à gauche déportée Versetztes Linksschneiden Left cut off line				L (R) Coupe à droite déportée Versetztes Rechtsschneiden Right cut off line			
E	L	Art. N°	P M N S TiAlN	P M N TiN	P S N (µK20)	Art. N°	P M N S TiAlN	P M N TiN	P S N (µK20)
2.5	22	-				**7051R-2.5**	●	●	●
3.0	22	**7061L-3.0**	●	●	●	**7051R-3.0**	●	●	●
3.5	22	-				**7051R-3.5**	●	●	●

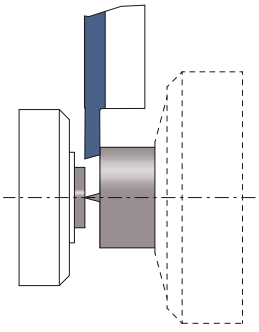
7061LXF / 7051RXF

Coupe déportée
Versetztes Schneiden
Cut off line

Tronçonnage
Abstechen
Parting off

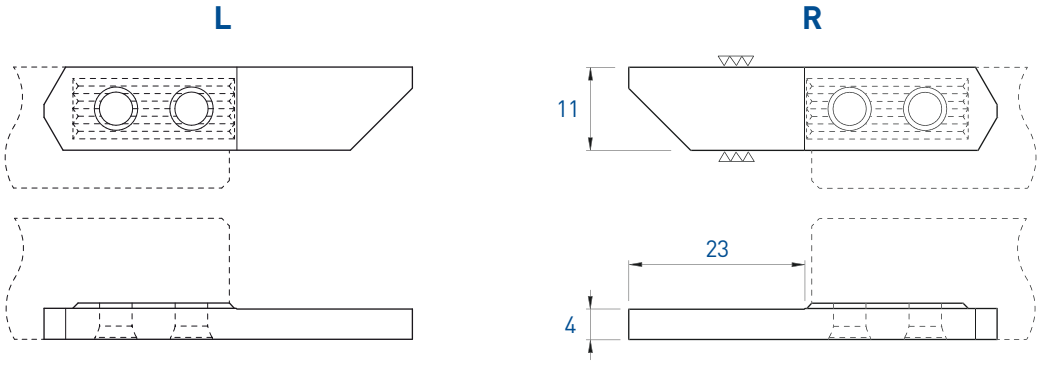


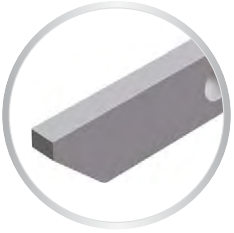
		R (L) Coupe à gauche déportée Versetztes Linksschneiden Left cut off line				L (R) Coupe à droite déportée Versetztes Rechtsschneiden Right cut off line			
E	L	Art. N°	TiAlN	TiN	N (µk20)	Art. N°	TiAlN	TiN	N (µk20)
3.0	22	**7061LXF-3.0**	●	●	●	**7051RXF-3.0**	●	●	●



Plaquettes ébauches
WSP-Rohlinge
Blank inserts

7051-E / 7061-E





L		R	
Art. N°	N (µk20)	Art. N°	N (µk20)
7051-E	●	7061-E	●

L

Type		Page
W750	W750	1.186
	W750-JET	1.187
W751	W751-E5	1.188
	W751-E6	1.190
	W751-EP5	1.189
	W751-EP6	1.191

R

Type		Page
W760	W760	1.186
	W760-JET	1.187
W761	W761-E5	1.188
	W761-E6	1.190
	W761-EP5	1.189
	W761-EP6	1.191

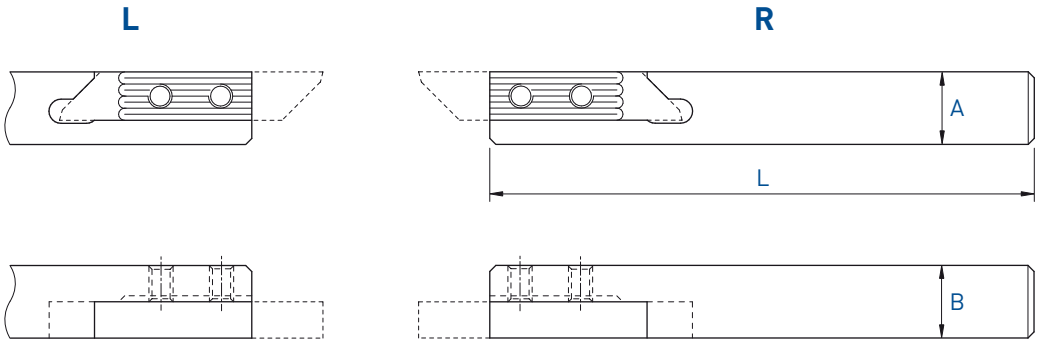
W750 / W760
Porte-outils
Halter
Holders
> 1.186

W750-JET / W760-JET
Porte-outils avec arrosage intégré
Halter mit integrierter Kühlmittelzufuhr
Holders with integrated coolant supply
> 1.187

W751-E / W761-E
Plaquettes ébauches
WSP-Rohlinge
Blank inserts
> 1.188

W750 / W760

Porte-outils
Halter
Holders

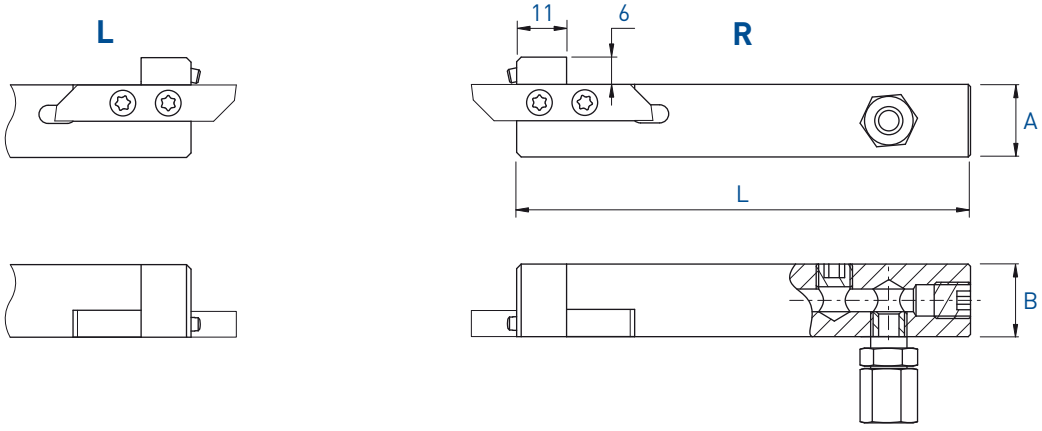


			L	R
A x B	L	Serrage Spannsystem Clamping	**Art. N°**	**Art. N°**
12 x 12	130	A	**W750-12**	**W760-12**
16 x 16	130	A	**W750-16**	**W760-16**
20 x 20	120	A	**W750-20**	**W760-20**

Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

Porte-outils avec arrosage intégré
Halter mit integrierter Kühlmittelzufuhr
Holders with integrated coolant supply

W750-JET / W760-JET

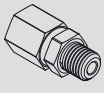


A x B	L	Serrage Spannsystem Clamping	L Art. N°	R Art. N°
16 x 16	100	A	**W750-16-JET**	**W760-16-JET**
20 x 20	100	A	**W750-20-JET**	**W760-20-JET**

Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.

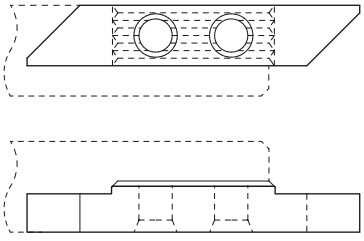
Each holder is supplied with one or more screws.
The keys must be ordered separately.

Pièces de rechange Ersatzteile Spare parts	 Art. N°	Art. N°	Buses Düsen Nozzles Art. N°
W750-JET / W760-JET	**J-M8X1-D6**	**JB-M8X1**	**JJ-M3X6-D1.5**
			More option see JET-Line

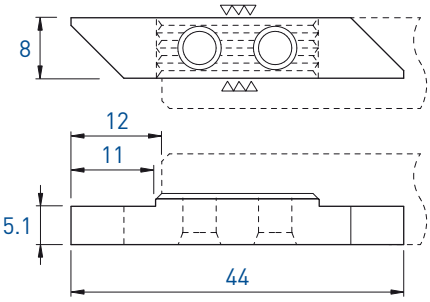
W751-E5 / W761-E5

Plaquettes ébauches
WSP-Rohlinge
Blank inserts

L



R

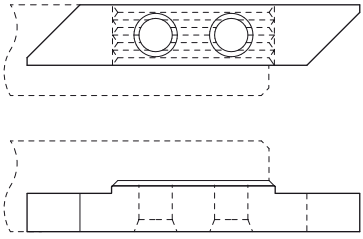


L	R				
Art. N°	P S	N (µk20)	Art. N°	P S	N (µk20)
W751-E5		●	W761-E5		●

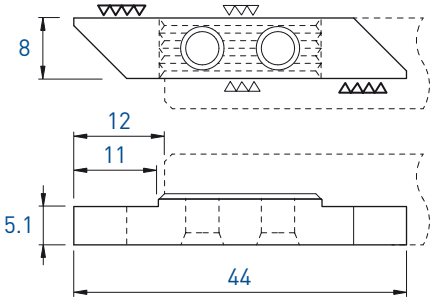
Plaquettes ébauches
WSP-Rohlinge
Blank inserts

W751-EP5 / W761-EP5

L



R

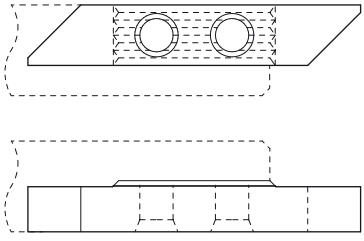


L			R		
Art. N°	P S	N (µK20)	Art. N°	P S	N (µK20)
W751-EP5		●	W761-EP5		●

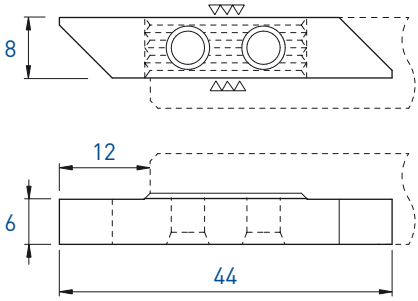
W751-E6 / W761-E6

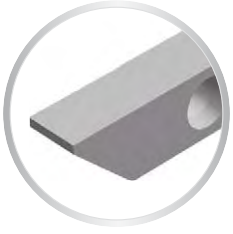
Plaquettes ébauches
WSP-Rohlinge
Blank inserts

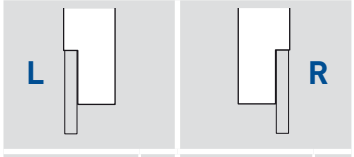
L



R





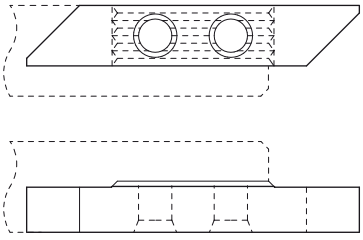


Art. N°	P S	N (µK20)	Art. N°	P S	N (µK20)
W751-E6		●	W761-E6		●

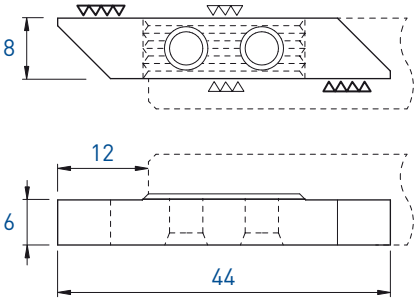
Plaquettes ébauches
WSP-Rohlinge
Blank inserts

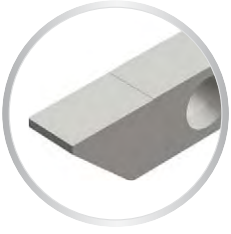
W751-EP6 / W761-EP6

L



R





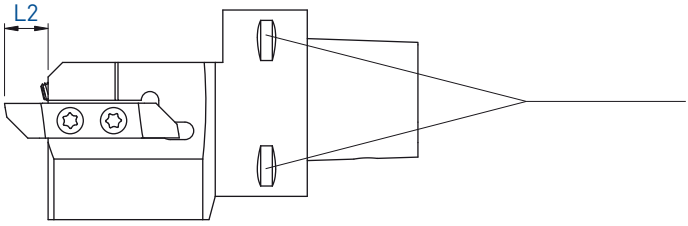
L			R		
Art. N°	P S	N (µk20)	Art. N°	P S	N (µk20)
W751-EP6		●	W761-EP6		●

Polygonal interface PSC3 / PSC4 / HSK			> 1.193
740Z / 760Z	Porte-outils pour usinage déporté Halter für versetzte Bearbeitung Tool holder for off line machining		> 1.200
Star	**SL7/10-JET**		> 1.201
Tornos	**DECO 7/10 - EvoDECO 10**	**R**	> 1.202
	DECO 7/10 - EvoDECO 10	**L**	> 1.204
	DECO 13 - EvoDECO 16 **DECO 20 - EvoDECO 20/32**		> 1.206
	MultiSwiss 6x16		> 1.208
	AS14 / SAS16		> 1.209
	SwissNano		> 1.210
Schütte			> 1.211
Arno			> 1.212

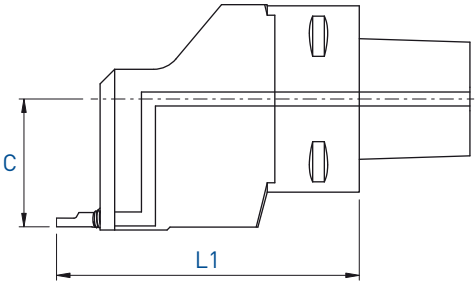
Interfaces polygonales PSC
Polygonale Schnittstellen PSC
Polygonal interfaces PSC

R

PSC3 / PSC4



Porte-outils pour changeur automatique
Halter für Werkzeugwechsler
Holder for automatic changer



Type	Plaquettes type WSP Typ Insert type	Pages Seiten Pages	L1	C	L2	Art. N°	Buses Düsen Nozzles Art. N°
PSC3	740	> 1.43	52	22	7.5	**PSC3-740-22052-G**	**JJ-M3X6-D1.5**
PSC3	760	> 1.101	59	22	10	**PSC3-760-22059-G**	
PSC4	740	> 1.43	62	27	7.5	**PSC4-740-27062-G**	
PSC4	760	> 1.101	67	27	10	**PSC4-760-27067-G**	

Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.

Each holder is supplied with one or more screws.
The keys must be ordered separately.

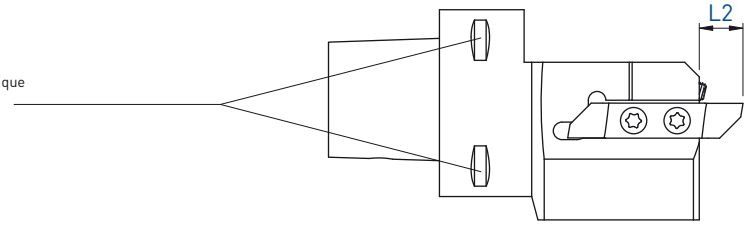
Options	
Art. N°	**Art. N°**
HSK-40-JET-M12X1	**C-HSK-40-JET**

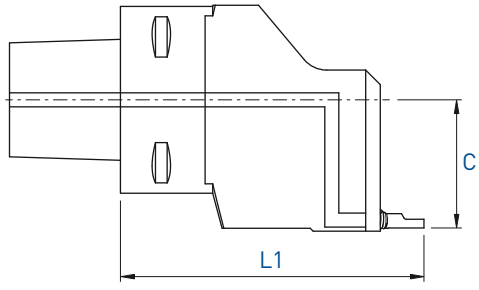
PSC3 / PSC4

L

Interface polygonale PSC
Polygonal Schnittstelle PSC
Polygonal interface PSC

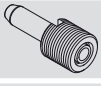
Porte-outils pour changeur automatique
Halter für Werkzeugwechsler
Holder for automatic changer





Type	Plaquettes type WSP Typ Insert type	Pages Seiten Pages	L1	C	L2	Art. N°	Buses Düsen Nozzles Art. N°
PSC3	730	> 1.43	52	22	7.5	**PSC3-730-22052-G**	**JJ-M3X6-D1.5**
PSC3	750	> 1.101	59	22	10	**PSC3-750-22059-G**	
PSC4	730	> 1.43	62	27	7.5	**PSC4-730-27062-G**	
PSC4	750	> 1.101	67	27	10	**PSC4-750-27067-G**	

Options



Art. N°	Art. N°
HSK-40-JET-M12X1	**C-HSK-40-JET**

Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.

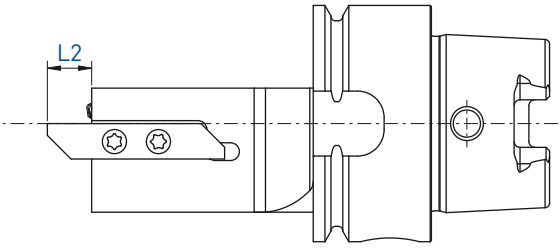
Each holder is supplied with one or more screws.
The keys must be ordered separately.

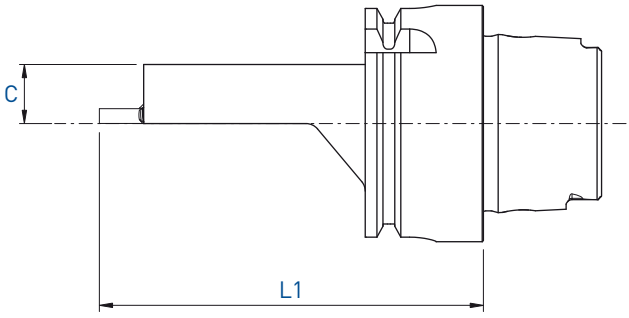
Porte-outils
Halter
Holders

Bumotec

R

HSK-A40-S191





Utilisable sur toutes les machines avec broches HSK-T ou HSK-A

Einsetzbar auf allen Maschinen, mit HSK-T oder HSK-A Pin

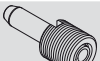
Usable on all machines with HSK-T or HSK-A spindles

Plaquettes type WSP Typ Insert type	Pages Seiten Pages	L1	L2	C	Art. N°	Buses Düsen Nozzles Art. N°
740	> 1.43	65	7.5	15	**HSK-A40-S191-740-0065-JET**	**JJ-M3X6-D1.5**
760	> 1.101	70	10	15	**HSK-A40-S191-760-0070-JET**	**JJ-M3X6-D1.5**

Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.

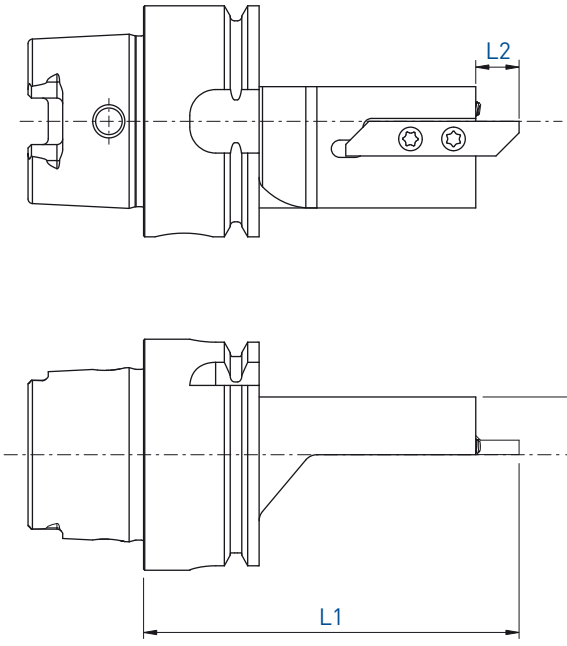
Each holder is supplied with one or more screws.
The keys must be ordered separately.

Options	
	
Art. N°	**Art. N°**
HSK-40-JET-M12X1	**C-HSK-40-JET**

HSK-T40

L

Porte-outils
Halter
Holders



Utilisable sur toutes les machines avec broches HSK-T ou HSK-A

Einsetzbar auf allen Maschinen, mit HSK-T oder HSK-A Pin

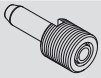
Usable on all machines with HSK-T or HSK-A spindles

Plaquettes type WSP Typ Insert type	Pages Seiten Pages	L1	L2	C	Art. N°	Buses Düsen Nozzles Art. N°
730	> 1.43	65	7.5	10	**HSK-T40-730-0065-JET**	**JJ-M3X6-D1.5**

Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.

Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.

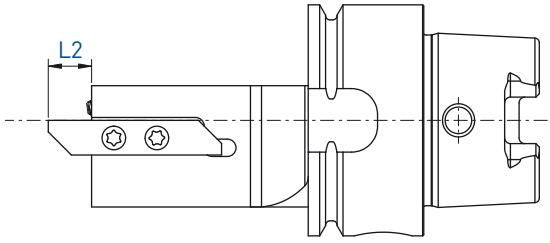
Each holder is supplied with one or more screws. The keys must be ordered separately.

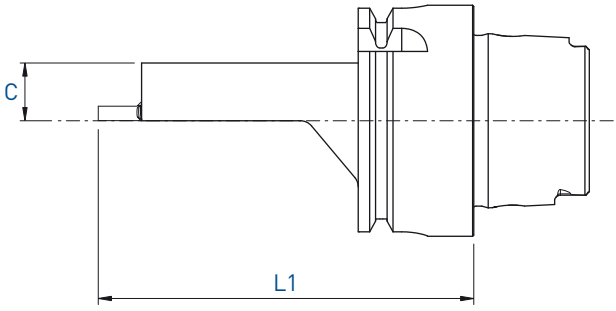
Options	
	
Art. N°	**Art. N°**
HSK-40-JET-M12X1	**C-HSK-40-JET**

Porte-outils
Halter
Holders

R

HSK-T40





Utilisable sur toutes les machines avec broches HSK-T ou HSK-A

Einsetzbar auf allen Maschinen, mit HSK-T oder HSK-A Pin

Usable on all machines with HSK-T or HSK-A spindles

Plaquettes type WSP Typ Insert type	Pages Seiten Pages	L1	L2	C	Art. N°	Buses Düsen Nozzles Art. N°
740	> 1.43	65	7.5	10	**HSK-T40-740-0065-JET**	**JJ-M3X6-D1.5**
760	> 1.101	70	10	15	**HSK-T40-760-0070-JET**	**JJ-M3X6-D1.5**

Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.

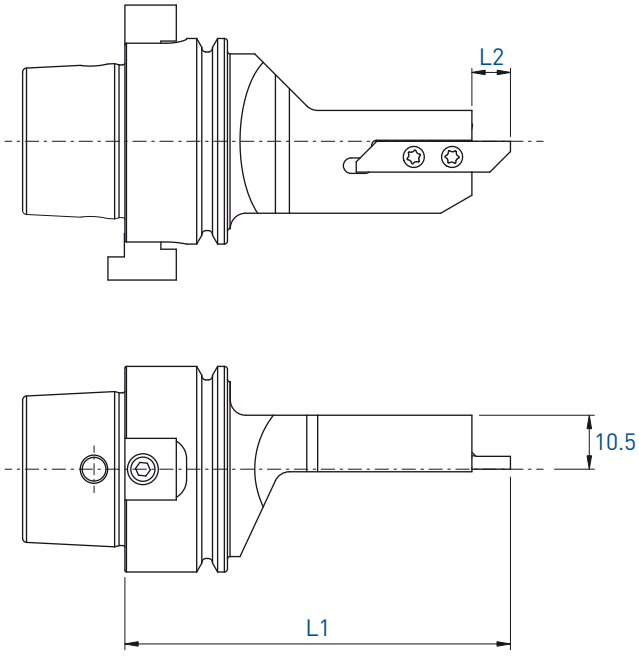
Each holder is supplied with one or more screws.
The keys must be ordered separately.

Options	
Art. N°	**Art. N°**
HSK-40-JET-M12X1	**C-HSK-40-JET**

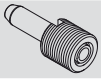
HSK-E40-WM

L

Porte-outils pour machines Willemin-Macodel
Halter für Willemin Macodel-Maschine
Holders for Willemin Macodel-machine



Plaquettes type WSP Typ Insert type	Pages Seiten Pages	L1	L2	Art. N°	Buses Düsen Nozzles Art. N°
730	> 1.43	75	7.5	**HSK-E40-730-0075-JET-WM**	**JJ-M3X6-D1.5**
750	> 1.101	75	10	**HSK-E40-750-0075-JET-WM**	**JJ-M3X6-D1.5**

Pièces de rechange Ersatzteile Spare parts	Options
	
Art. N°	**Art. N°**
HSK-40-JET-M12X1	**C-HSK-40-JET**

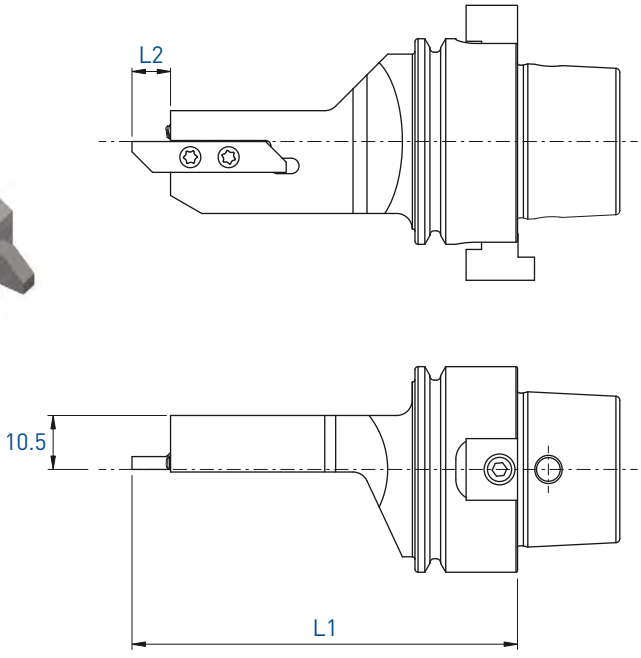
Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.

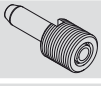
Each holder is supplied with one or more screws.
The keys must be ordered separately.

Porte-outils pour machines Willemin-Macodel
Halter für Willemin Macodel-Maschine
Holders for Willemin Macodel-machine

R | **HSK-E40-WM**



Plaquettes type WSP Typ Insert type	Pages Seiten Pages	L1	L2	Art. N°	Buses Düsen Nozzles Art. N°
740	> 1.43	75	7.5	**HSK-E40-740-0075-JET-WM**	**JJ-M3X6-D1.5**
760	> 1.101	75	10	**HSK-E40-760-0075-JET-WM**	**JJ-M3X6-D1.5**

Pièces de rechange Ersatzteile Spare parts	Options
	
Art. N°	**Art. N°**
HSK-40-JET-M12X1	**C-HSK-40-JET**

Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

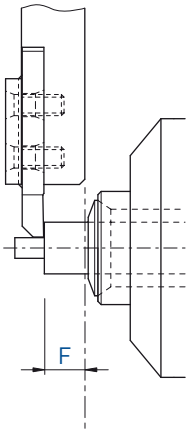
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.

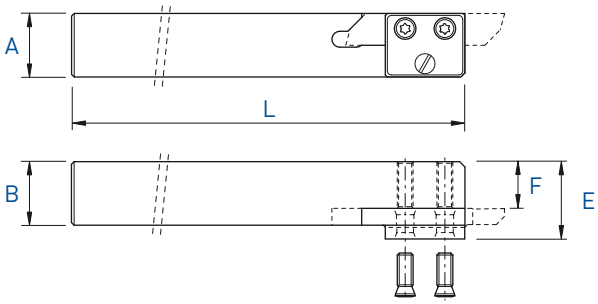
Each holder is supplied with one or more screws.
The keys must be ordered separately.

740Z / 760Z

R

Porte-outils pour usinage déporté
Halter für versetzte Bearbeitung
Holders for shifted machining





740 Series

A x B	L	F	E	**Art. N°**	Plaquettes type WSP Typ Inserts type	Pages Seiten Pages
12 x 12	130	9.5	14.5	**740Z-12**	741 - 747	> 1.43
16 x 16	130	13.5	18.5	**740Z-16**	741 - 747	> 1.43

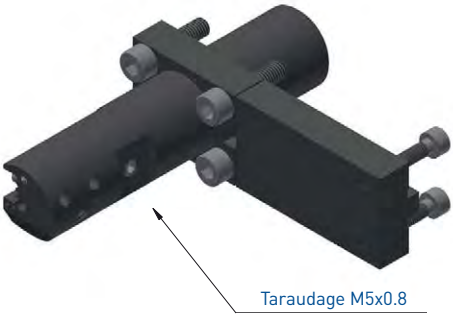
760 Series

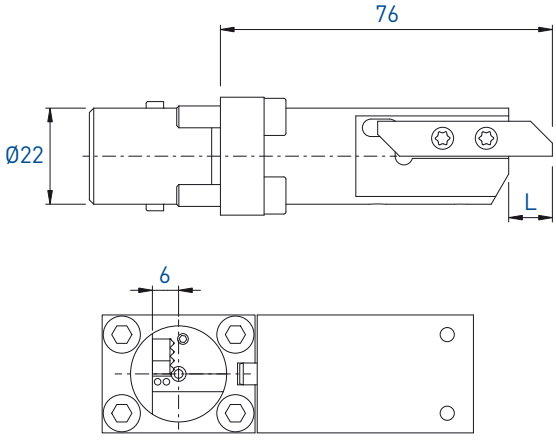
A x B	L	F	E	**Art. N°**	Plaquettes type WSP Typ Inserts type	Pages Seiten Pages
12 x 12	130	8	15	**760Z-12**	761 - 767	> 1.101
16 x 16	130	12	19	**760Z-16**	761 - 767	> 1.101

Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

Porte-outils pour machine Star avec arrosage intégré
Halter für Star Maschine mit intergrierter Kühlmittelzufuhr
Holders for Star machine with integrated coolant supply

SL7/10-JET





Art. N°	Plaquettes type WSP Typ Inserts type	Pages Seiten Pages
740-SL7/10-JET	740	> 1.43
760-SL7/10-JET	760	> 1.101

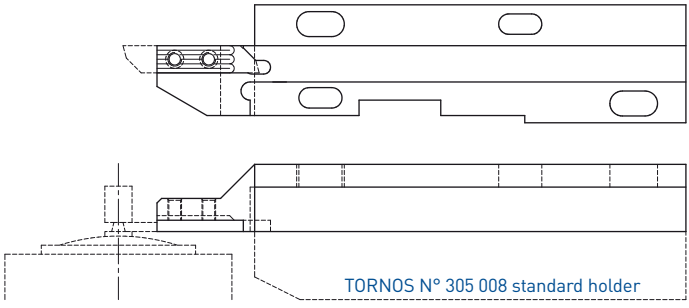
Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

DECO 7/10
EvoDECO 10

R

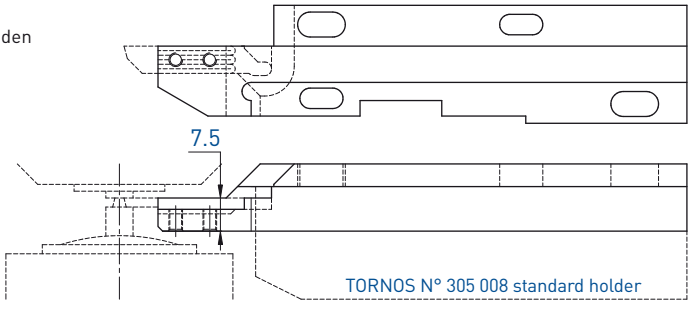
Porte-outils pour machine Tornos
Halter für Tornos Maschine
Holders for Tornos machine

Coupe à droite
Rechtsschneiden
Right hand cut



Art. N°	Plaquettes type WSP Typ Inserts type	Pages Seiten Pages
740-DECO10	741 - 747	> 1.43

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line



Art. N°	Plaquettes type WSP Typ Inserts type	Pages Seiten Pages
730R-DECO10	731R / 731N	1.51 - 1.58

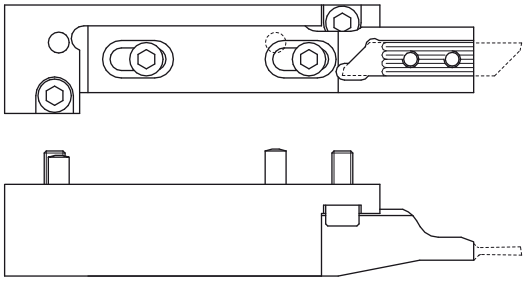
Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

Porte-outils pour machine Tornos
Halter für Tornos Maschine
Holders for Tornos machine

R

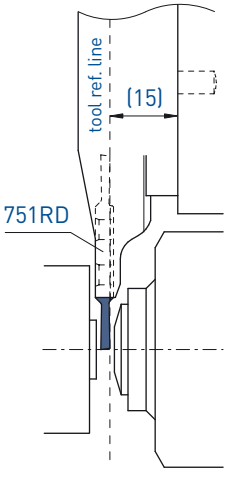
DECO 7/10
EvoDECO 10

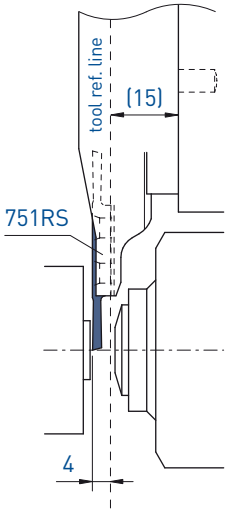
Pour le tronçonnage de petites pièces
Zum Abstechen von kleinen Werkstücken
For small parts parting off



Réglable en longueur
Längseinstellbar
Adjustable length

Art. N°	Plaquettes type WSP Typ Inserts type	Pages Seiten Pages
750R-DECO10	751R / 751N	> 1.104





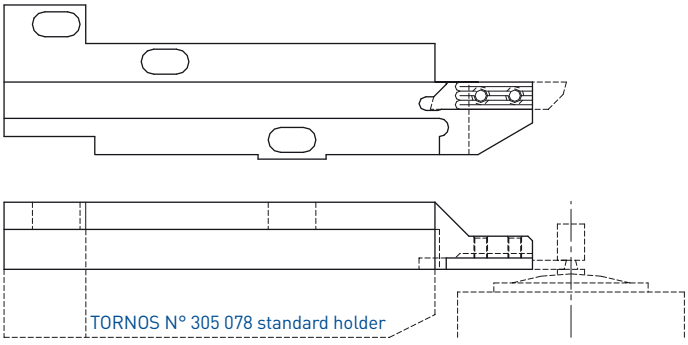
Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

DECO 7/10
EvoDECO 10

L

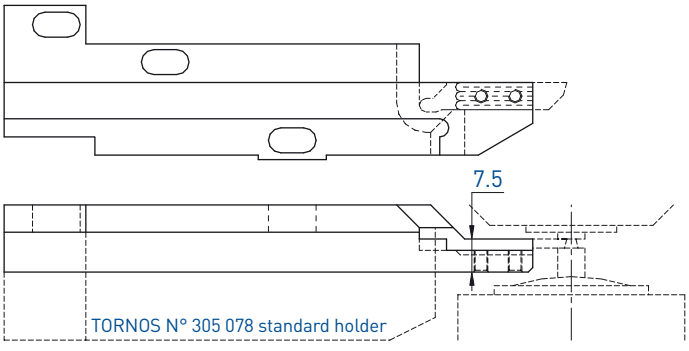
Porte-outils pour machine Tornos
Halter für Tornos Maschine
Holders for Tornos machine

Coupe à gauche
Linksschneiden
Left hand cut



Art. N°	Plaquettes type WSP Typ Inserts type	Pages Seiten Pages
730-DECO10	731 - 737	> 1.43

Coupe à gauche déportée
Versetztes Linksschneiden
Left cut off line



Art. N°	Plaquettes type WSP Typ Inserts type	Pages Seiten Pages
740L-DECO10	741L / 741N	> 1.49

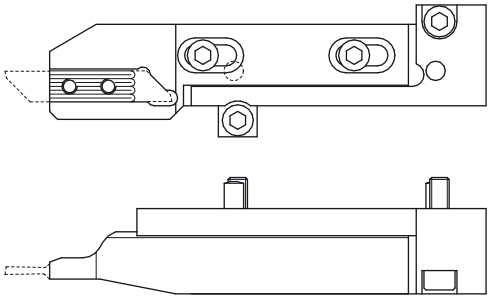
Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

Porte-outils pour machine Tornos
Halter für Tornos Maschine
Holders for Tornos machine

L

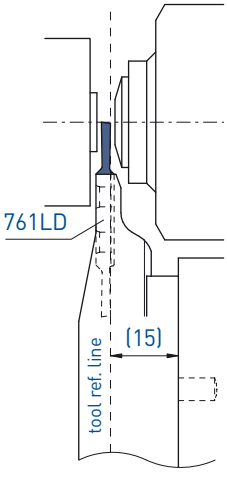
DECO 7/10
EvoDECO 10

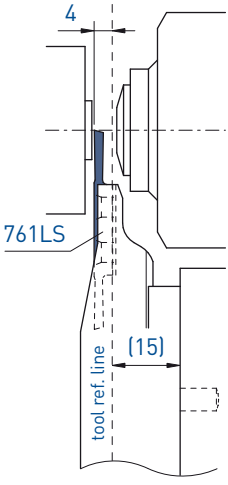
Pour le tronçonnage de petites pièces
Zum Abstechen von kleinen Werkstücken
For small parts parting off



Réglable en longueur
Längseinstellbar
Adjustable length

Art. N°	Plaquettes type WSP Typ Inserts type	Pages Seiten Pages
760L-DECO10	761L / 761N	1.104 - 1.125



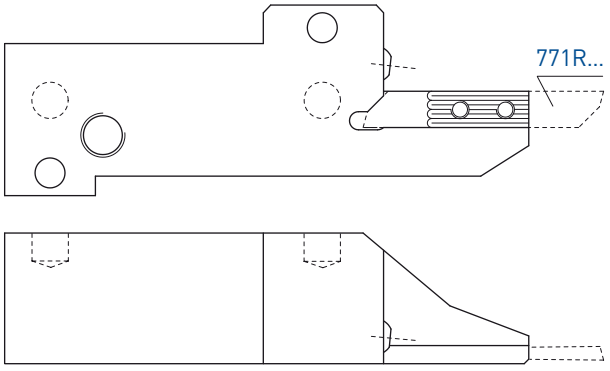


Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

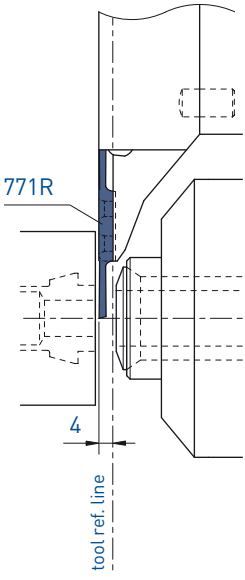
DECO 13
EvoDECO 16

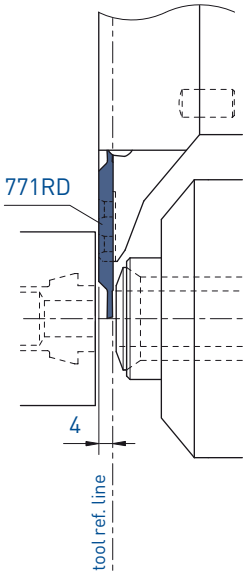
Porte-outils pour machine Tornos
Halter für Tornos Maschine
Holders for Tornos machine

Pour le tronçonnage de petites pièces
Zum Abstechen von kleinen Werkstücken
For small parts parting off



Art. N°	Plaquettes type WSP Typ Inserts type	Pages Seiten Pages
770R-DECO13	771R	1.171 - 1.174



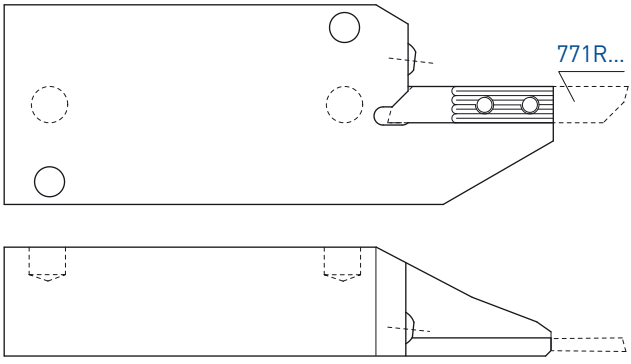


Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

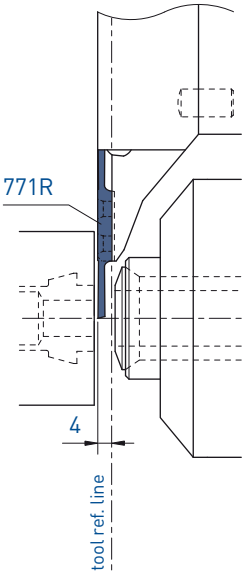
Porte-outils pour machine Tornos
Halter für Tornos Maschine
Holders for Tornos machine

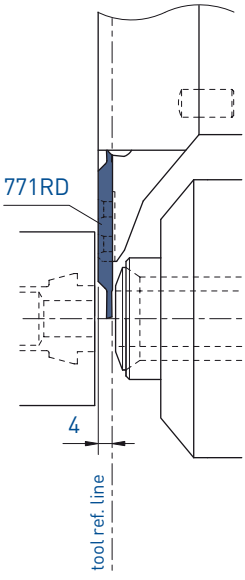
DECO 20
EvoDECO 20/32

Pour le tronçonnage de petites pièces
Zum Abstechen von kleinen Werkstücken
For small parts parting off



Art. N°	Plaquettes type WSP Typ Inserts type	Pages Seiten Pages
770R-DECO20	771R	1.171 - 1.174

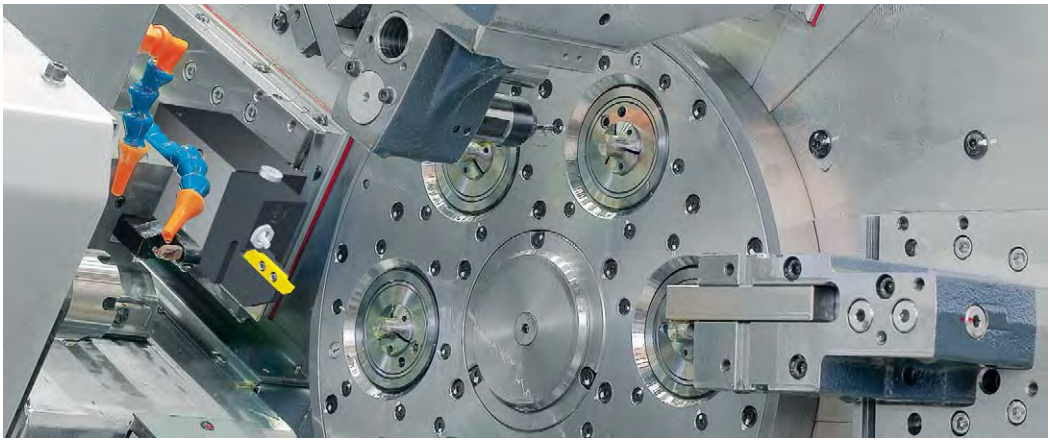


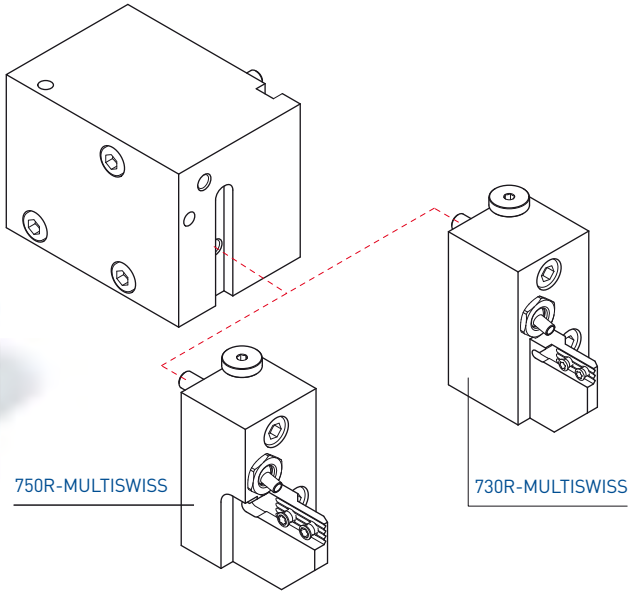


Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

MultiSwiss 6x16

Porte-outils pour machine Tornos
Halter für Tornos Maschine
Holders for Tornos machine



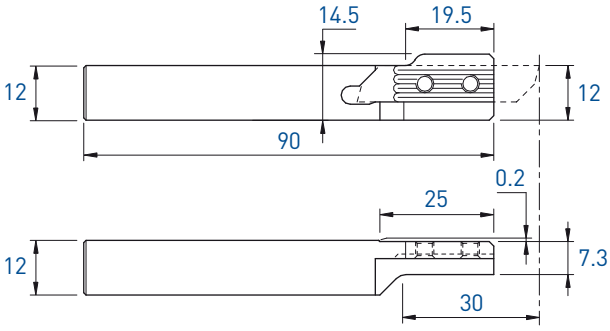


Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

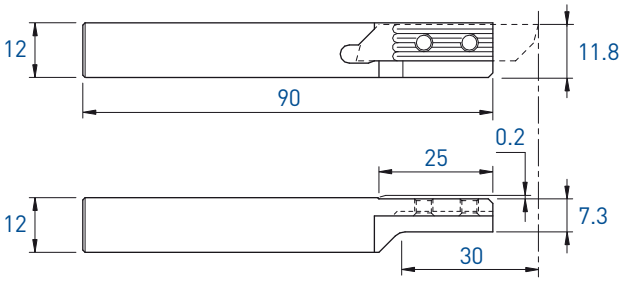
Jeder Halter wird mit einer oder mehreren Schrauben geliefert.
Die Schlüssel sind separat zu bestellen.

Each holder is supplied with one or more screws.
The keys must be ordered separately.

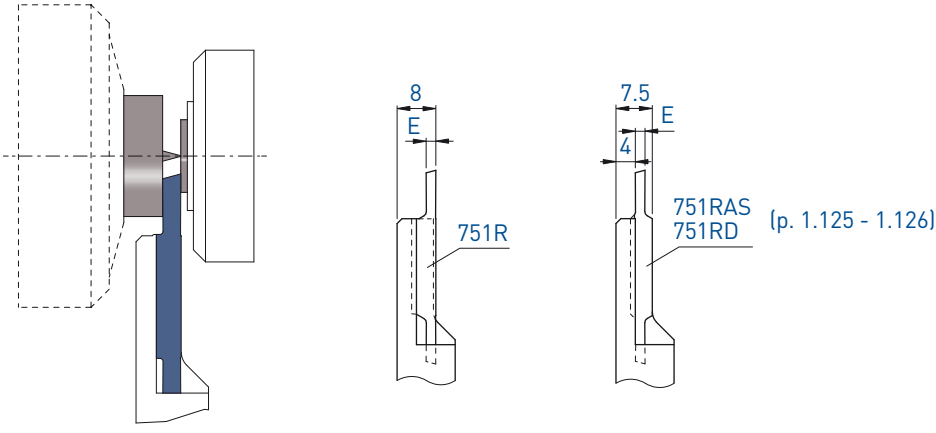
Art. N°	Plaquettes type WSP Typ Inserts type	Pages Seiten Pages
730R-MULTISWISS	731R / 731N	1.49 - 1.57
750R-MULTISWISS	751R / 751N	1.103 - 1.126



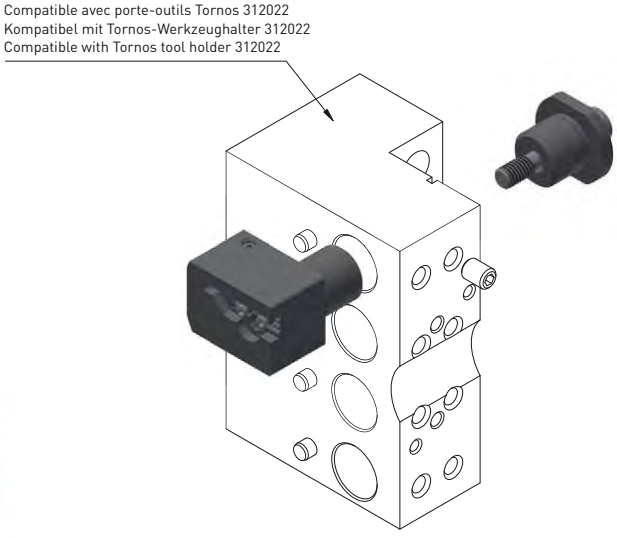
Art. N°	Plaquettes type WSP Typ Inserts type	Pages Seiten Pages
750RAS-12	751R	1.114 - 1.127



Art. N°	Plaquettes type WSP Typ Inserts type	Pages Seiten Pages
750RAS-12-H11.8	751R	1.114 - 1.127



Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.



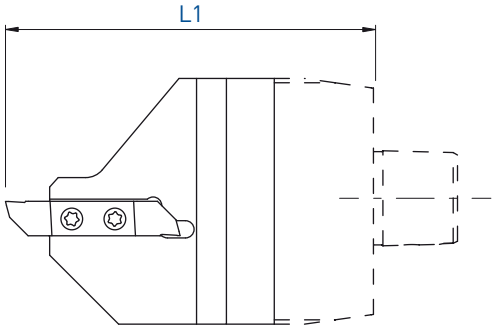
Art. N°	Plaquettes type WSP Typ Inserts type	Pages Seiten Pages
740-SN-312022	740	1.43 - 1.89

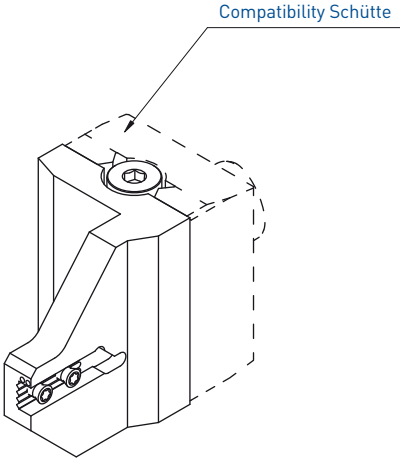
Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

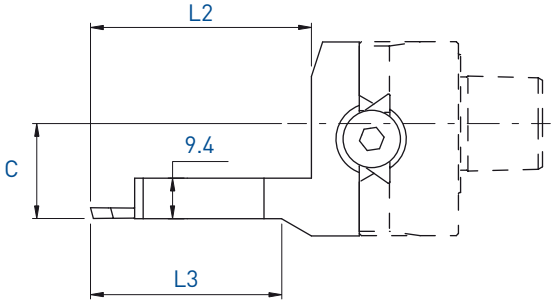
Porte-outils
Halter
Holders

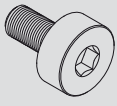
Schütte

DT20
DT30



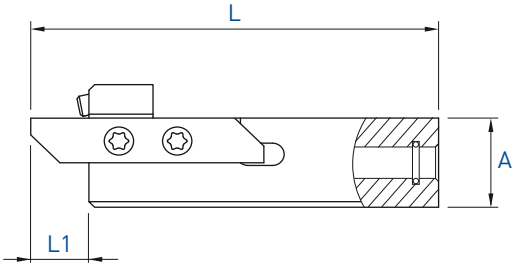


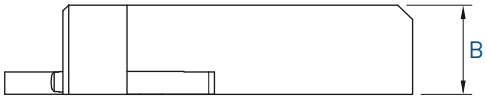


Plaquettes type WSP Typ Inserts type	Pages Seiten Pages	L1	C	L2	L3	Art. N°	Compatibility Schütte	 Art. N°
761-767	> 1.101	86	22	51	44	**DT20-760-JET**	***C3-75870949***	**V-M6X0.5-14-L18**
		83	27.5	48	–	**DT30-760-JET**	***C4-75836783***	

Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

AFC-740-JET / AFC-760-JET





À monter exclusivement avec les butées ARNO AHA...-UN...-AFC
Ausschließlich mit ARNO AHA...-UN...-AFC Anschlagssystemen montieren
To be assembled exclusively with ARNO AHA...-UN...-AFC stop systems

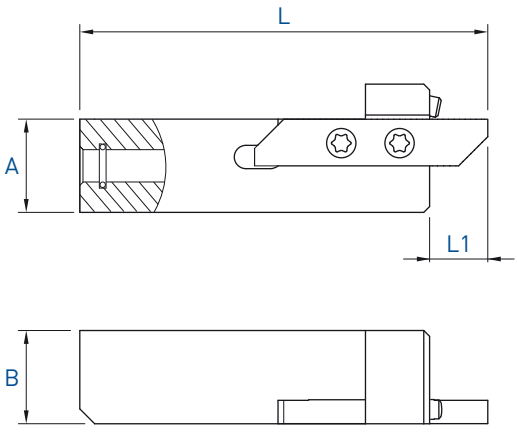
Plaquettes type WSP Typ Insert type	Pages Seiten Pages	AxB	L	L1	**Art. N°**	Buses Düsen Nozzles **Art. N°**
740	> 1.43	12x12	70	7.5	**AFC-740-12-JET**	**JJ-M3X6-D1.5**
740	> 1.43	16x16	70	7.5	**AFC-740-16-JET**	**JJ-M3X6-D1.5**
760	> 1.101	12x12	70	10	**AFC-760-12-JET**	**JJ-M3X6-D1.5**
760	> 1.101	16x16	70	10	**AFC-760-16-JET**	**JJ-M3X6-D1.5**
						More option see JET-Line

Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

Porte-outils
Halter
Holders

Arno

AFC-730R-JET / AFC-750R-JET



À monter exclusivement avec les butées ARNO AHA...-UN...-AFC
Ausschließlich mit ARNO AHA...-UN...-AFC Anschlagssystemen montieren
To be assembled exclusively with ARNO AHA...-UN...-AFC stop systems

Plaquettes type WSP Typ Insert type	Pages Seiten Pages	AxB	L	L1	**Art. N°**	Buses Düsen Nozzles **Art. N°**
730	> 1.43	12x12	70	7.5	**AFC-730R-12-JET**	**JJ-M3X6-D1.5**
730	> 1.43	16x16	70	7.5	**AFC-730R-16-JET**	**JJ-M3X6-D1.5**
750	> 1.101	12x12	70	10	**AFC-750R-12-JET**	**JJ-M3X6-D1.5**
750	> 1.101	16x16	70	10	**AFC-750R-16-JET**	**JJ-M3X6-D1.5**
						More option see JET-Line

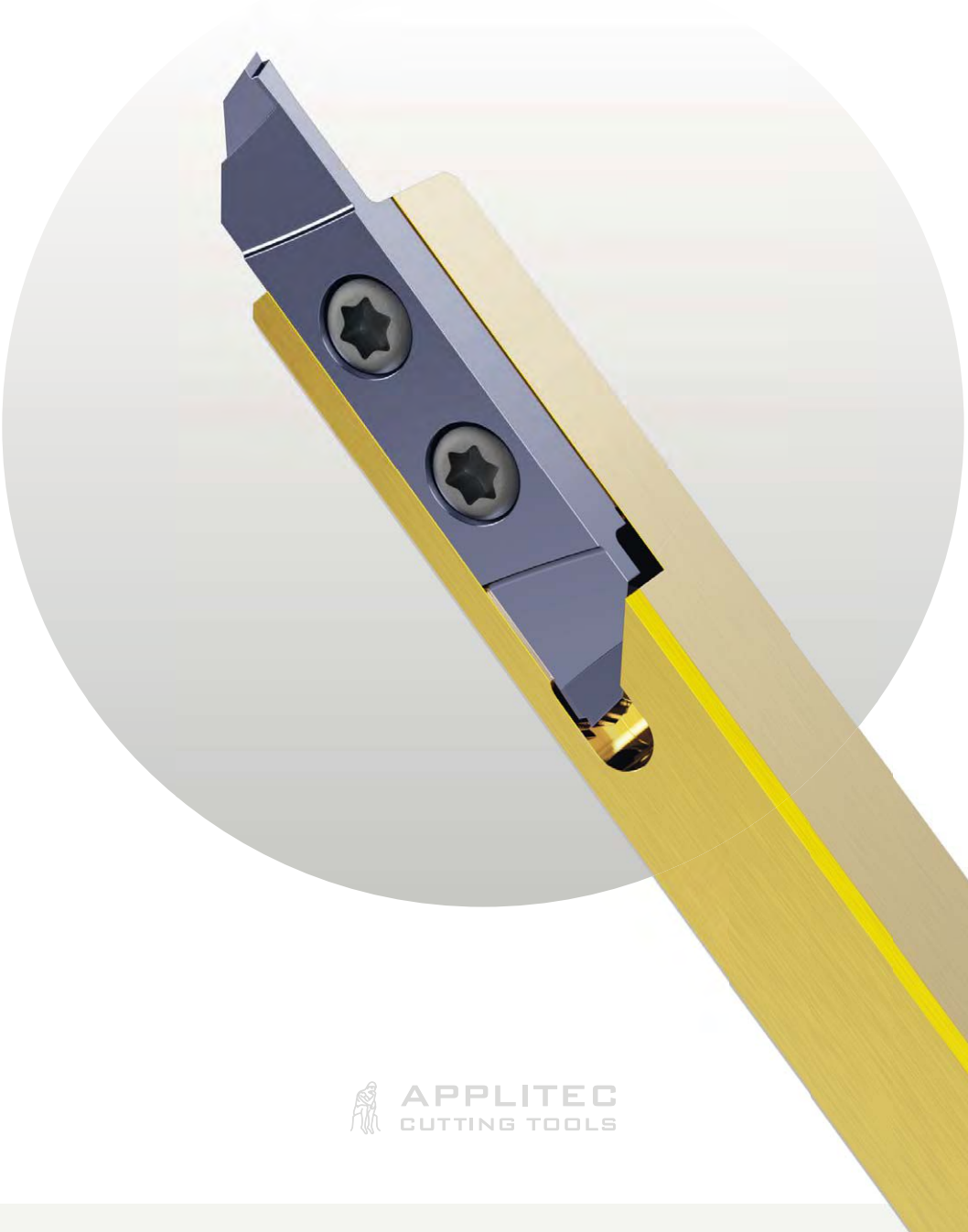
Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

	Porte-outils Halter Holders	Serrage standard (A) Standard Spannsystem (A) Standard clamping system (A)	Options	Serrage type B Spannsystem Typ B Clamping system type B	Options
710	710-6 / - NOVIBRA	**V-M2.5X5.8-T8**	**C-T8**	-	-
	710-7 / - NOVIBRA	**V-M2.5X6.5-T8**			
	710-8 / - NOVIBRA 710-10 - 710-12	**V-M2.5X7.8-T8**			
720	720-7	**V-M2.5X6.5-T8**	**C-T8**	-	-
	720-8 - 720-12	**V-M2.5X7.8-T8**			
730	730-7 /- JET / -NOVIBRA	**V-M3X7-T8**	**C-T8**	-	-
	730-8 / -NOVIBRA			**V-M2.5X7.8-T8**	**C-T8**
	730-9.52 - 730-20			-	-
	730-DECO10				
	730R-DECO10				
	730RC	**V-M3X5.5-T8**			
740	740-7 /-JET /-NOVIBRA	**V-M3X7-T8**	**C-T8**	-	-
	740-8 /-NOVIBRA - 740-12 /-JET /-NOVIBRA			**V-M2.5X7.8-T8**	**C-T8**
	740-16 - 740-20			-	-
	740/730-D				
	740-C	**V-M3X5.5-T8**			
	740-D-JET				
	740-DECO10	**V-M3X7-T8**			
	740L-DECO10				
	740-Z	**V-M3X9-T8**			

	Porte-outils Halter Holders	Serrage standard (A) Standard Spannsystem (A) Standard clamping system (A)	Options	Serrage type B Spannsystem Typ B Clamping system type B BN11 BN21	
750	750-10 - 750-12 /-JET	**V-M4X9-T15**	**C-T15**	-	-
	750-10-AB			**V-M3X10-BN21**	**C-6P-2.0**
	750-12-AB			**V-M3X8-BN11**	**C-6P-2.5**
	750-12.7 - 750-14			**V-M3X10-BN11**	
	750-16			**V-M3X12-BN11**	
	750-20			**V-M3X16-BN11**	
	750RAS - 750-RC	**V-M4X7.3-T15**		-	-
	750R-DECO10	**V-M4X5.6-T15**			
760	760-10 - 760-12 /-JET / -NOVIBRA / 760/750	**V-M4X9-T15**	**C-T15**	-	-
	760-10-AB			**V-M3X10-BN21**	**C-6P-2.0**
	760-12-AB			**V-M3X8-BN11**	**C-6P-2.5**
	760-12.7 - 760-14			**V-M3X10-BN11**	
	760-16			**V-M3X12-BN11**	
	760-20			**V-M3X16-BN11**	
	760-D-JET			-	-
	760LC	**V-M4X7.3-T15**			
	760L-DECO10	**V-M4X5.6-T15**			
	760-Z	**V-M4X12-T15**			

	Porte-outils Halter Holders	Serrage standard (A) Standard Spannsystem (A) Standard clamping system (A)	Options	Serrage type B Spannsystem Typ B Clamping system type B	
770	770 / -JET	**V-M4X9-T15**	**C-T15**	-	-
	770RC	**V-M4X7.3-T15**			
780	780 / -JET	**V-M4X9-T15**	**C-T15**	-	-
7050	7050	**V-M4X9-T15**	**C-T15**	-	-
	7051				
7060	7060	**V-M4X9-T15**	**C-T15**	-	-
	7061				
W	W750 / W760 /-JET	**V-M4X11.5-T15**	**C-T15**	-	-
PSC3	PSC3-730	**V-M3X7-T8**	**C-T8**	-	-
	PSC3-740				
	PSC3-750				
	PSC3-760	**V-M4X9-T15**	**C-T15**		
PSC4	PSC4-730	**V-M4X9-T15**	**C-T15**	-	-
	PSC4-740				
	PSC4-750				
	PSC4-760				
HSK	HSK-A40-E40-T40-740	**V-M3X7-T8**	**C-T8**	-	-
	HSK-A40-E40-T40-760	**V-M4X9-T15**	**C-T15**		
STAR	SL7/10-JET	**V-M3X7-T8**	**C-T8**	-	-
DECO 7/10 EvoDECO 10	730-DECO10	**V-M3X5.5-T8**	**C-T8**	-	-
	730R-DECO10				
	740-DECO10				
	740L-DECO10				
	750R-DECO10				
	760L-DECO10				
DECO 13 EvoDECO 16	770R-DECO13	**V-M3X5.5-T8**	**C-T8**	-	-
DECO 20 EvoDECO 20/32	770R-DECO20	**V-M3X5.5-T8**	**C-T8**	-	-
MultiSwiss	730R-MULTISWISS	**V-M3X5.5-T8**	**C-T8**	-	-
	750R-MULTISWISS	**V-M4X7.3-T15**	**C-T15**		
SwissNano	740-SN-312022	**V-M3X5.5-T8**	**C-T8**	-	-
Schütte	DT20-760-JET	**V-M4X9-T15**	**C-T15**	-	-
	DT30-760-JET				
Arno	AFC-730R	**V-M3X5.5-T8**	**C-T8**	-	-
	AFC-740				
	AFC-750R				
	AFC-760				

TOP-Watch



APPLITEC
CUTTING TOOLS

SF Series

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Codification
Kodifizierung
Coding guide > 2.04

Infos et avantages
Infos und Vorteile
Infos and advantages > 2.05

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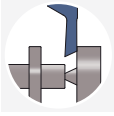
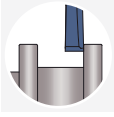
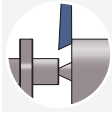
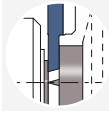
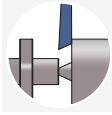
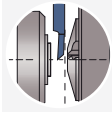
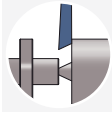
Sorten
Grades > 2.06

	pour machines à cames für kurvengesteuerte Maschinen for cam driven machines	pour machines CNC für CNC-Maschinen for CNC driven machines	
	L	L	R
	710 710-SF 710-NOVIBRA > 2.13	730 730-NOVIBRA	740 740SF 740-NOVIBRA > 2.23
	711SF > 2.16		741SF > 2.27
	712SF > 2.18		742SF > 2.32
	713SF > 2.20		743SF > 2.37
			744SF > 2.43
		736SF	746SF > 2.44
			748SF > 2.46
			749SF > 2.47

	pour machines à cames für kurvengesteuerte Maschinen for cam driven machines	pour machines CNC für CNC-Maschinen for CNC driven machines	
	L	L	R
	711-ESF > 2.22	731-ESF	741-ESF > 2.48

Coupe à droite déportée | Versetztes Rechtsschneiden | Right cut off line

	730RC	> 2.49
	731NSF	> 2.50
	731RSF	> 2.51
	750RC	> 2.54
	751RDSF	> 2.55
	770-SN-SF	> 2.56
	771RVSF	> 2.58

Porte-outils pour SwissNano
Halter für SwissNano
Holder for SwissNano
MODU-Line **ML12** > 2.59

Pièces de rechange et accessoires
Ersatzteile und Zubehöre
Spare parts and accessories
> 2.59

Codification
Kodifizierung
Coding guide

7	4	4	SF	–	X412	–	0.8	–	HTAXF

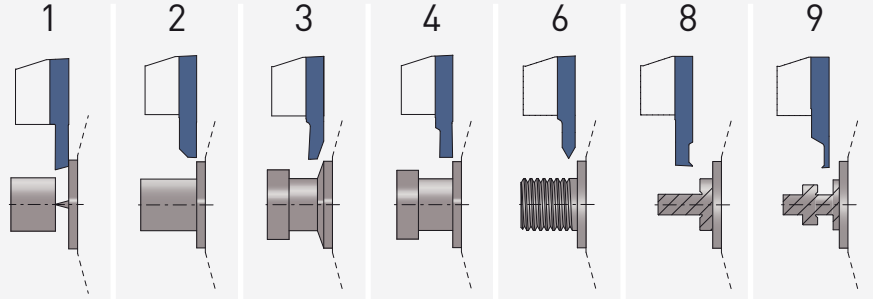
Super finish

Dimension
Abmessung
Dimension

Nuance
Sorte
Grade

Géométrie de coupe / Brise-copeaux / Particularités
Schneidgeometrie / Spanbrecher / Sondereigenschaften
Cutting geometry / Chip breaker / Special features

Géométrie d'usinage
Bearbeitungsgeometrie
Machining geometry

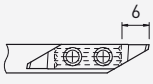


Gamme de produit
Produktserie
Product series

définit la compatibilité des plaquettes avec le porte-outil
definiert die Kompatibilität der Wendeschneidplatten mit dem Werkzeughalter
define the compatibility of the inserts with the toolholder

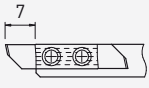
L = 1, 3, 5, 7 (chiffre impair / ungerade Zahl / uneven number)
R = 4 (chiffre pair / gerade Zahl / even number)

L 710



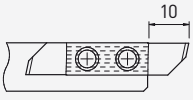
pour machines à cames
für kurvengesteuerte Maschinen
for cam driven machines

L 730 | R 740



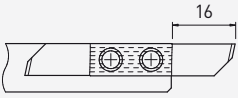
main series
small type

L 750



main series
large type

L 770



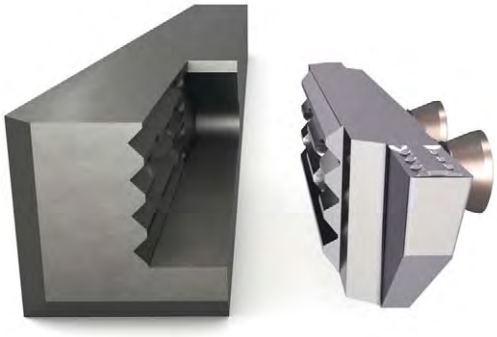
tronçonnage uniquement
nur für abstechen
only for parting off

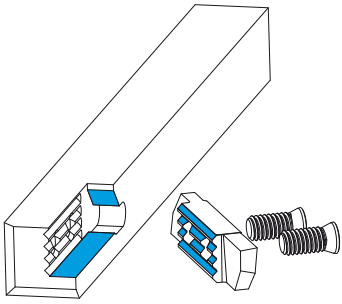
Applitec série 700 Système de serrage à denture décalée avec 2 vis de fixation
Applitec 700 Serie Spannsystem mit 2 Schrauben und verschobener Verzahnung
Applitec 700 series Shifted teeth clamping system with 2 screws

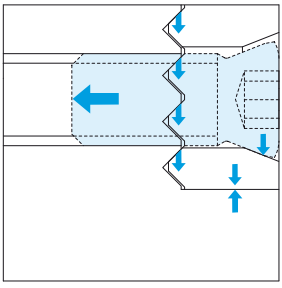
L'outil de référence pour le décolletage
Hochwertiges Wendeplattensystem für Langdrehautomaten
Top class turning tool for automatic lathes

100% rigid!

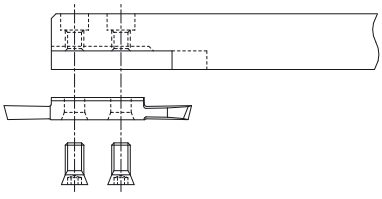
Système de serrage Applitec à denture décalée
Applitec-Spannsystem mit verschobener Verzahnung
Applitec clamping system with shifted teeth

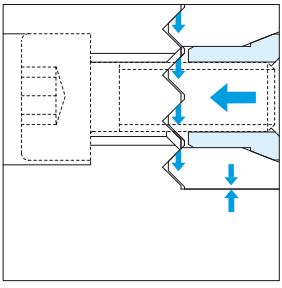






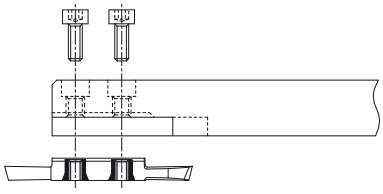
Serrage standard (A)
Standard Spannsystem (A)
Standard clamping system (A)





Serrage type B*
Spannsystem Typ B*
Clamping system type B*

ajouter -B après le numéro d'article
-B nach der Artikelreferenz hinzufügen
add -B after the article number



Changement de la plaquette possible dans la machine, sans démontage du porte-outil
WSP-Austauschmöglichkeit in der Maschine ohne Halterausbau
The insert can be changed in the machine without removing the tool holder

* = sur demande / auf Anfrage / on request

µK20

N

K20

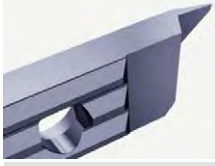
Non revêtu
Unbeschichtet
Uncoated

P ★☆☆☆☆
M ★☆☆☆☆
N ★★★☆☆
S ★★★☆☆

- nuance micro-grain tenace, résistante aux conditions défavorables, recommandée pour des opérations de coupe dans des matières ne nécessitant aucun revêtement
- zähe Feinkornsorte, in ungünstige Bearbeitungskonditionen widerstandsfähig, für Schnittbearbeitung von Stahl und rostfreiem Stahl empfohlen
- tough micro-grain grade, suitable for unfavorable machining conditions, suitable for cutting in material that not necessitate any tool coating

µK20

TAF



K20

µK20 + revêtement PVD
µK20 + PVD Beschichtung
µK20 + PVD coating

TF **F** M E

P ★★★★☆
M ★★★★☆
N ★★★★☆
S ★★★★☆

- nuance très résistante aux conditions défavorables, recommandée pour des opérations de coupes dans les aciers et aciers inoxydables
- zähe widerstandsfähige Sorte in ungünstigen Bearbeitungskonditionen, für Schnittbearbeitung von Stahl und rostfreiem Stahl empfohlen
- tough grade, resistant to unfavorable machining conditions, suitable for cutting of steel and stainless steel

µK20

TAF-RE

K20

µK20 + revêtement PVD
µK20 + PVD Beschichtung
µK20 + PVD coating

TF F M E

P ★★★★☆
M ★★★★☆
N ★★★★☆
S ★★★★☆

- nuance identique à TAF avec dépouilles rectifiées après revêtement pour des opérations de finition
- gleiche Sorte wie TAF nach der Beschichtung geschliffener Freiwinkel, für Schlichtbearbeitung empfohlen
- same grade as TAF, after coating grounded clearance, recommended for finishing

μK10 - μK20

KN

K10 - K20

Non revêtu
Unbeschichtet
Uncoated

P ★☆☆☆☆
M ★☆☆☆☆
N ★★★☆☆
S ★★★☆☆

- nuance de base non revêtue micro-grain, alliant une très bonne résistance à l'usure et une bonne ténacité
- recommandé pour l'usinage des matières ne nécessitant aucun revêtement, par exemple le titane pur

- verschleißfeste Feinkornsorte, unbeschichtet, mit hoher Zähigkeit und guter Widerstandsfähigkeit
- empfohlen für die Bearbeitung von Werkstoffen, die keine Beschichtung erfordern, zum Beispiel reines Titan

- wear-resistant micro-grain grade, uncoated, with high toughness and good resistance
- recommended for machining materials that do not require coating, such as pure titanium

μK10 - μK20

KSTF

K10 - K20

μK10 - μK20 + revêtement PVD
μK10 - μK20 + PVD Beschichtung
μK10 - μK20 + PVD coating

TF **F** M E

P ★★★★☆
M ★★★★★
N ★☆☆☆☆
S ★★★★★

- nuance très résistante à l'usure et à la température
- 1er choix pour les aciers > 50 HRC, les aciers à base de nickel, chrome-cobalt, inox et titane allié.

- verschleißfeste Sorte, beständig gegen hohe Temperaturen
- erste Wahl für Stähle > 50 HRC, Nickelbasislegierungen, Chrom-Kobalt, rostfreien Stahl und legiertes Titan

- wear-resistant grade, highly resistant to temperature
- first choice for steels > 50 HRC, nickel-based alloys, chrome-cobalt, stainless steel, and alloyed titanium

μK10 - μK20

KSTF-RE

K10 - K20

μK10 - μK20 + revêtement PVD
μK10 - μK20 + PVD Beschichtung
μK10 - μK20 + PVD coating

TF F M E

P ★★★★☆
M ★★★★★
N ★☆☆☆☆
S ★★★★★

- nuance identique à KSTF avec dépouilles rectifiées après revêtement pour des opérations de finition

- gleiche Sorte wie KSTF nach der Beschichtung geschliffener Freiwinkel, für Schlichtbearbeitung empfohlen

- same grade as KSTF, after coating grounded clearance, recommended for finishing,

Nuances
Sorten
Grades

µK10

HN

K10

Non revêtu
Unbeschichtet
Uncoated

P ★☆☆☆☆
M ★☆☆☆☆
N ★★★☆☆
S ★★★☆☆

- nuance micro-grain, bonne résistance à l'usure
- recommandé pour des opérations d'ébauche et de finition pour des matières ou usinages ne nécessitant aucun revêtement

- verschleissfeste Feinkornsorte
- für Schruppen und Schlichtbearbeitung empfohlen oder für Werkstoffe oder Bearbeitungen, die keine Beschichtung erfordern

- wear resistant micro-grain carbide
- recommended for roughing and finishing and for materials or operations that do not necessitate any tool coating

µK10

HTC

K10

µK10 + revêtement PVD
µK10 + PVD Beschichtung
µK10 + PVD coating

TF **F** M E

P ★★★★★
M ★★★★★
N ★★★★☆
S ★★★★☆

- nuance résistante à l'usure, faible coefficient de frottement, recommandée pour des opérations d'ébauche et de finition
- **conseillé pour l'usinage de la matière 20AP**

- verschleissfeste Sorte, geringer Reibwert, für Schruppen und Schlichtbearbeitung empfohlen
- **für Bearbeitung von 20AP geeignet**

- wear resistant grade, low friction ratio, recommended for roughing and finishing
- **suitable for machining of 20AP material**

µK10

HTC-RE

K10

µK10 + revêtement PVD
µK10 + PVD Beschichtung
µK10 + PVD coating

TF F M E

P ★★★★★
M ★★★★★
N ★★★★☆
S ★★★★☆

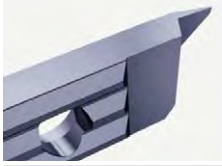
- nuance identique à HTC avec dépouilles rectifiées après revêtement pour des opérations de finition
- **conseillé pour l'usinage de la matière 20AP**

- gleiche Sorte wie HTC nach der Beschichtung geschliffener Freiwinkel, für Schlichtbearbeitung empfohlen
- **für Bearbeitung von 20AP geeignet**

- same grade as HTC, after coating grounded clearance, recommended for finishing
- **suitable for machining of 20AP material**

µK10

HTAF



K10

µK10 + revêtement PVD
µK10 + PVD Beschichtung
µK10 + PVD coating

TF **F** M E

P ★★★★★
M ★★★★★
N ★★★★☆
S ★★★★☆

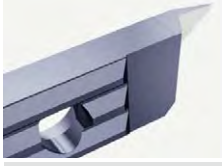
- nuance résistante à l'usure, recommandée pour des opérations d'ébauche et de finition
- **conseillé pour l'usinage des matières Finemac et inox 4c27a**

- verschleissfeste Sorte, für Schruppen und Schlichtbearbeitung empfohlen
- **für Bearbeitung von Finemac und 4c27a-Rostfreiem Stahl geeignet**

- wear resistant grade, recommended for roughing and finishing
- **suitable for machining of Finemac and 4c27a stainless steel**

µK10

HTAF-RE



K10

µK10 + revêtement PVD
µK10 + PVD Beschichtung
µK10 + PVD coating

TF F M E

P ★★★★★
M ★★★★★
N ★★★★☆
S ★★★★☆

- nuance identique à HTAF avec dépouilles rectifiées après revêtement pour des opérations de finition
- **recommandé pour les matières Finemac et inox 4c27a**

- gleiche Sorte wie HTAF nach der Beschichtung geschliffener Freiwinkel, für Schlichtbearbeitung empfohlen
- **für Bearbeitung von Finemac und 4c27a-Rostfreiem Stahl geeignet**

- same grade as HTAF, after coating grounded clearance, recommended for finishing
- **suitable for machining of Finemac and 4c27a stainless steel**

µK10

HTAXF

K10

µK10 + revêtement PVD
µK10 + PVD Beschichtung
µK10 + PVD coating

TF **F** M E

P ★★★★☆
M ★★★★★
N ★☆☆☆☆
S ★★★★★

- nuance complémentaire, résistante à l'usure et à la température pour l'usinage ébauche et finition des matières inox 304, 316L, 317L, 904, Phynox
  Aciers alliés contenant : chrome nickel, vanadium, molybdène...

- komplementäre Sorte, verschleissfest und temperaturbeständing. Für Schruppen und Schlichtbearbeitung von Materialien Inox 304, 316L, 317L, 904, Phynox
  Legierter Stahl enthaltend Chrom-Nickel, Vanadium, Molybdän...

- complementary grade, wear and temperature resistant four roughing and finishing of following materials : Inox 304, 316L, 317L, 904, Phynox
  Alloy steel containing Chrome-nickel, Vanadium, Molybdenum...

Nuances
Sorten
Grades

µK10

HTAXF-RE

K10

µK10 + revêtement PVD
µK10 + PVD Beschichtung
µK10 + PVD coating

TF F M E

P ★★★★☆
M ★★★★★
N ★☆☆☆☆
S ★★★★★

- nuance identique à HTAXF avec dépouilles rectifiées après revêtement pour des opérations de finition
- gleiche Sorte, wie HTAXF nach der Beschichtung geschliffener Freiwinkel, für Schlichtbearbeitung empfohlen
- same grade as HTAXF, after coating grounded clearance, recommended for finishing

µK10

HCR-TF

K10

µK10 + revêtement PVD
µK10 + PVD Beschichtung
µK10 + PVD coating

TF F M E

P ☆☆☆☆☆
M ☆☆☆☆☆
N ★★★★★
S ★★★★☆

- nuance spécifique aux matériaux non ferreux tels que cuivre, laiton, laiton sans plomb, bronze, maillechort. Réduit le collage. Alternative aux revêtements DLC pour certains domaines d'applications
- spezifische Sorte, für Nichteisenmetalle wie Kupfer, Messing, bleifreies Messing, Bronze, Neusilber. Verringerung des Klebens. Alternative zu DLC-Beschichtungen in gewissen Einsatzbereichen
- specific grade for non-ferrous materials such as copper, brass, lead-free brass, bronze and nickel silver. Reduces sticking. Alternative to DLC coatings for certain applications

µK10

HTiN

K10

µK10 + revêtement PVD
µK10 + PVD Beschichtung
µK10 + PVD coating

TF F M E

P ★★★★☆
M ★★★★☆
N ★★★☆☆
S ☆☆☆☆☆

- nuance résistante à l'usure, faible coefficient de frottement, recommandée pour des opérations d'ébauche et de finition
- verschleisste Sorte, geringer Reibwert, für Schruppen und Schlichtbearbeitung empfohlen
- wear resistant grade low friction ratio, recommended for roughing and finishing

µK01

XN

K01

Non revêtu
Unbeschichtet
Uncoated

P ★ ☆ ☆ ☆ ☆
M ★ ☆ ☆ ☆ ☆
N ★ ★ ★ ☆ ☆
S ★ ★ ★ ☆ ☆

- nuance micro-grain très résistante à l'usure, recommandée pour des opérations d'ébauche et de finition pour des matières ou usinages ne nécessitant aucun revêtement
- sehr verschleissfeste Sorte, für Schruppen und Schlichtbearbeitung empfohlen oder für Werkstoffe oder Bearbeitungen, die keine Beschichtung erfordern
- wear resistant micro-grain carbide, recommended for roughing and finishing and for materials or operations that do not necessitate any tool coating

µK01

XTC

K01

µK01 + revêtement PVD
µK01 + PVD Beschichtung
µK01 + PVD coating

TF **F** M E

P ★ ★ ★ ★ ★
M ★ ★ ★ ★ ★
N ★ ★ ★ ★ ☆
S ★ ★ ★ ★ ☆

- nuance très résistante à l'usure, faible coefficient de frottement, recommandée pour des opérations de finition
- sehr verschleissfeste Sorte, geringer Reibwert, für Schlichtbearbeitung empfohlen
- very wear resistant grade, recommended for finishing, suitable for machining of very abrasive materials

µK01

XTAF

K01

µK01 + revêtement PVD
µK01 + PVD Beschichtung
µK01 + PVD coating

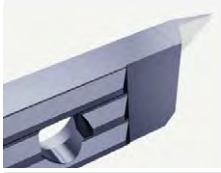
TF **F** M E

P ★ ★ ★ ★ ★
M ★ ★ ★ ★ ★
N ★ ★ ★ ★ ☆
S ★ ★ ★ ★ ☆

- nuance très résistante à l'usure, recommandée pour des opérations de finition, conseillée pour l'usinage des matières très abrasives
- sehr verschleissfeste Sorte, für Schlichtbearbeitung empfohlen, für die Bearbeitung von sehr abrasive Rohstoffe geeignet
- very wear resistant grade, recommended for finishing, suitable for machining of very abrasive materials

µK01

XTAF-RE



K01

µK01 + revêtement PVD
µK01 + PVD Beschichtung
µK01 + PVD coating

TF F M E

P ★★★★★
M ★★★★★
N ★★★★☆
S ★★★★☆

- nuance identique à HTAF avec dépouilles rectifiées après revêtement pour des opérations de finition
- gleiche Sorte wie XTAF nach der Beschichtung geschliffener Freiwinkel, für Schlichtbearbeitung empfohlen
- same grade as XTAF, after coating grounded clearance, recommended for finishing

µK01

XTAXF

K01

µK01 + revêtement PVD
µK01 + PVD Beschichtung
µK01 + PVD coating

TF **F** M E

P ★★★★☆
M ★★★★★
N ★☆☆☆☆
S ★★★★☆

- nuance complémentaire très résistante à l'usure et à la température pour la finition des matières inox 304, 316L, 317L, 904, Phynox
  Aciers alliés contenant : chrome nickel, vanadium, molybdène...
- komplementäre Sorte, sehr veschleissfest und temperaturbeständig. Für Schlichtbearbeitung von Materialien Inox 304, 316L, 317L, 904, Phynox
  Legierter Stahl enthaltend Chrom-Nickel, Vanadium, Molybdän...
- complementary grade, very wear and temperature resistant for finishing of following materials: Inox 304, 316L, 317L, 904, Phynox
  Alloy steel containing Chrome-nickel, Vanadium, Molybdenum...

µK01

XTAXF-RE

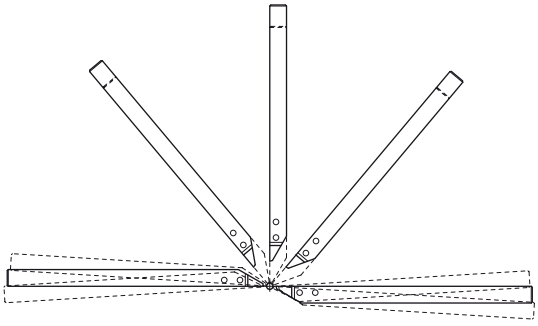
K01

µK01 + revêtement PVD
µK01 + PVD Beschichtung
µK01 + PVD coating

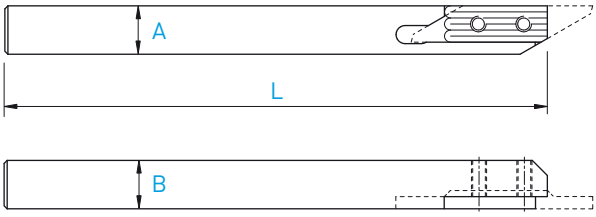
TF F M E

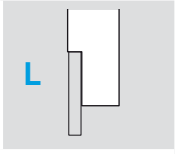
P ★★★★☆
M ★★★★★
N ★☆☆☆☆
S ★★★★★

- nuance identique à HTAXF avec dépouilles rectifiées après revêtement pour des opérations de finition
- gleiche Sorte wie XTAXF nach der Beschichtung geschliffener Freiwinkel, für Schlichtbearbeitung empfohlen
- same grade as XTAXF, after coating grounded clearance, recommended for finishing,



Porte-outils pour machines à cames à gauche
Halter für linksdrehende kurvengesteuerte Maschinen
Tool holders for left hand turning cam driven machines





A x B	L	Serrage Spannsystem Clamping	Art. N°
6 x 6	115	A	**710-6**
7 x 7	115	A	**710-7**
8 x 8	115	A	**710-8**
8 x 8	140	A	**710-8-140**
10 x 10	115	A	**710-10**
12 x 12	130	A	**710-12**

Porte-outils Halter Holders	Serrage standard (A) Standard Spannsystem (A) Standard clamping system (A)	Options
710-6	**V-M2.5X5.8-T8**	**C-T8**
710-7	**V-M2.5X6.5-T8**	
710-8		
710-10	**V-M2.5X7.8-T8**	
710-12		

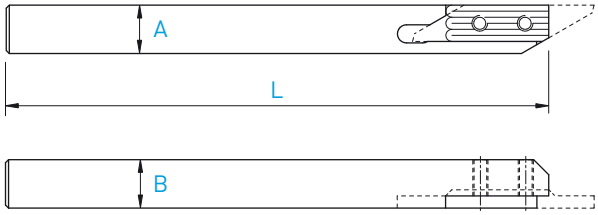
Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

Jeder Halter wird mit einer oder mehreren Schrauben geliefert.
Die Schlüssel sind separat zu bestellen.

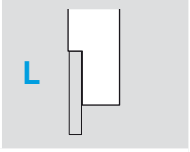
Each holder is supplied with one or more screws.
The keys must be ordered separately.

710-SF

Porte-outils
Halter
Holders



Super finition des 4 faces
4 seitig feinstgeschliffen
4 sides superfinish



A x B	L	Serrage Spannsystem Clamping	Art. N°
7 x 7	140	A	**710-7-140-SF**
8 x 8	140	A	**710-8-140-SF**

Porte-outils Halter Holders	Serrage standard (A) Standard Spannsystem (A) Standard clamping system (A)	Options
710-7-SF	**V-M2.5X6.5-T8**	**C-T8**
710-8-SF	**V-M2.5X7.8-T8**	

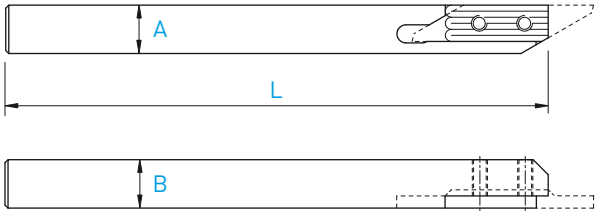
Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

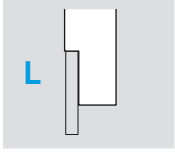
Jeder Halter wird mit einer oder mehreren Schrauben geliefert.
Die Schlüssel sind separat zu bestellen.

Each holder is supplied with one or more screws.
The keys must be ordered separately.

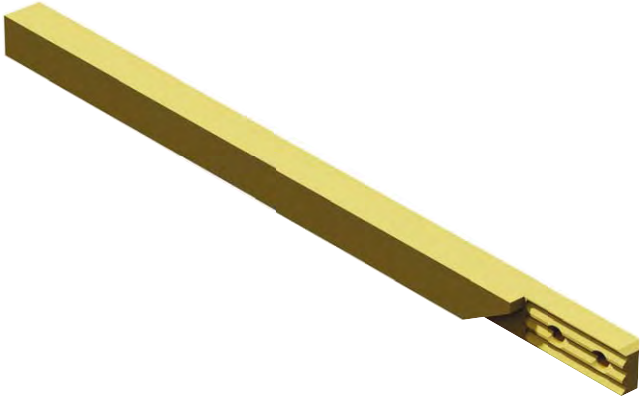
Porte-outils en métal lourd anti-vibratoire
Schwingungdämpfender Schwermetallhalter
Low vibration heavy metal holders

710-NOVIBRA





A x B	L	Serrage Spannsystem Clamping	Art. N°
6 x 6	115	A	**710-6-NOVIBRA**
7 x 7	115	A	**710-7-NOVIBRA**
8 x 8	115	A	**710-8-NOVIBRA**



Porte-outils Halter Holders	Serrage standard (A) Standard Spannsystem (A) Standard clamping system (A)	Options
710-6-NOVIBRA	**V-M2.5X5.8-T8**	
710-7-NOVIBRA	**V-M2.5X6.5-T8**	**C-T8**
710-8-NOVIBRA	**V-M2.5X7.8-T8**	

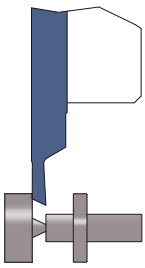
Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

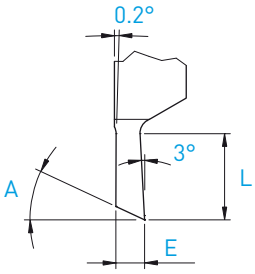
Jeder Halter wird mit einer oder mehreren Schrauben geliefert.
Die Schlüssel sind separat zu bestellen.

Each holder is supplied with one or more screws.
The keys must be ordered separately.

711SF

Tronçonnage
Abstechen
Parting off



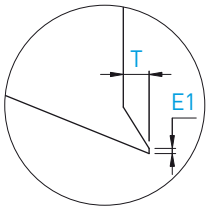


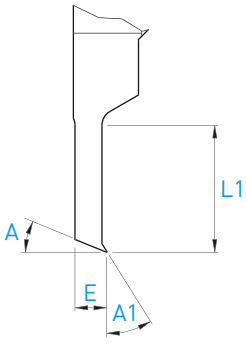
L

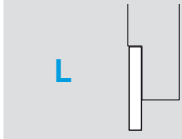
E	L	A	Art. N°	HTC	HTC-RE	HTAF	HTiN	HN (µK10)
				P	P	P M N S	P M N S	N S
0.8	3.0	25°	**711SF-0.8-25°**	●	●	●	●	●
1.0	3.0	25°	**711SF-1.0-25°**	●		●	●	●

Coupe rentrante
Abstechen Zentrumfrei
Pip-free back parting off

711SF-A



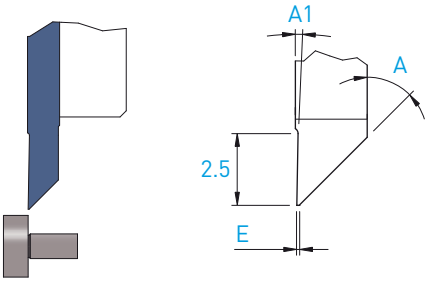




E1	E	A	A1	T	L1	Art. N°	N	TAF-RE
0.03	0.8	22°	32°	0.15	4	**711SF-0.8-22°-A3215**	●	●
0.03	1.0	22°	32°	0.15	4	**711SF-1.0-22°-A3215**	●	●

712SF

Tournage avant ébauche / finition
Vorwärts drehen schruppen / schlichten
Front turning for roughing / finishing

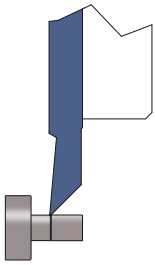


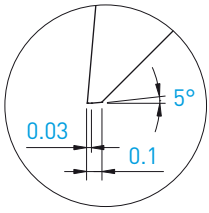
L

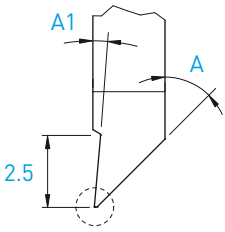
E	A	A1	Art. N°	HTC	HTC-RE	HTAF	HTiN	HN (µK10)
				P	P	P M N S	P M N S	N S
0.03	45°	3°	**712SF-3/3-45°**	●		●		●
0.08	45°	1°	**712SF-8/8-45°**	●	●	●	●	●

Tournage avant finition (pivotage)
Vorwärts drehen schlichten
Front turning for finishing

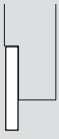
712SF-10/3







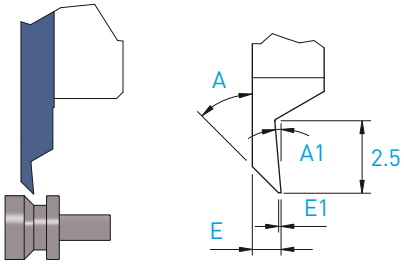
L



A	A1	Art. N°	HTC	HTC-RE	HTAF	HTiN	HN (µk10)
			P	P	P M N S	P M N S	N S
45°	3°	712SF-10/3	●	●	●	●	●

713SF

Tournage arrière ébauche / finition
Rückwärts drehen schruppen / schlichten
Back turning for roughing / finishing

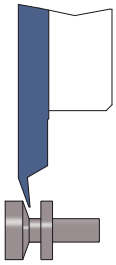


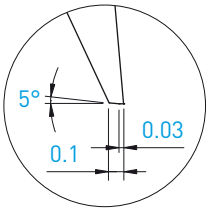
L

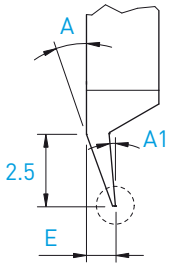
E1	E	A	A1	Art. N°	HTC	HTC-RE	HTAF	HTiN	HN (µK10)
					P M N S	P	P M N S	P M N S	N S
0.03	1.0	45°	5°	**713SF-3/3-45°-1.0**	●		●		●
0.10	1.0	45°	5°	**713SF-10/10-45°-1.0**	●		●		●

Tournage arrière finition
Rückwärts drehen schlichten
Back turning for finishing

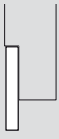
713SF-10/3







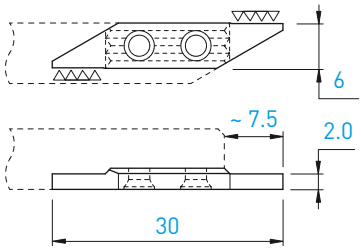
L

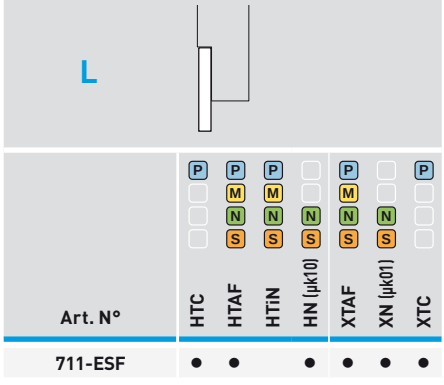


E	A	A1	Art. N°	HTC	HTC-RE	HTAF	HTiN	HN (µk10)
				P	P	P M N S	P M N S	N S
1.0	20°	5°	**713SF-10/3**	●		●	●	●

711-ESF

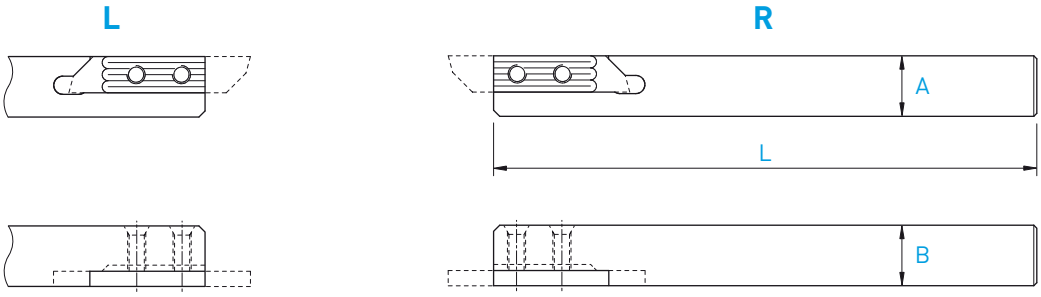
Plaquettes ébauches
WSP-Rohlinge
Blank inserts





Porte-outils
Halter
Holders

730 / 740



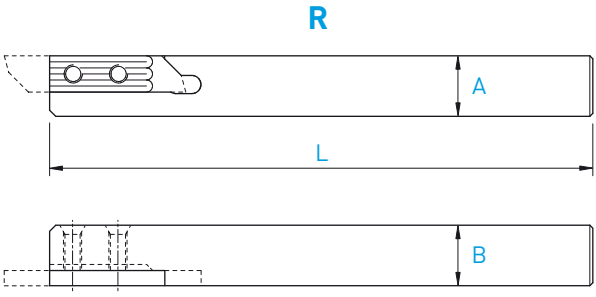
A x B	L	Serrage Spannsystem Clamping	L Art. N°	R Art. N°
7 x 7	115	A	**730-7**	**740-7**
8 x 8	115	A + B	**730-8**	**740-8**
8 x 8	140	A + B	**730-8-140**	**-**
10 x 10	115	A + B	**730-10**	**740-10**
12 x 12	130	A + B	**730-12**	**740-12**
12 x 12	90	A + B	**730-12-90**	**740-12-90**

Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.

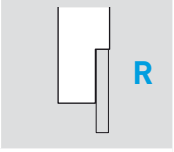
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.

Each holder is supplied with one or more screws. The keys must be ordered separately.

Porte-outils Halter Holders	Serrage standard (A) Standard Spannsystem (A) Standard clamping system (A)	Options	Serrage standard (B) Standard Spannsystem (B) Standard clamping system (B)	Options
730/740-7	**V-M3X7-T8**	**C-T8**	**-**	**-**
730/740-8			**V-M2.5X7.8-T8**	**C-T8**
730/740-10				
730/740-12				



Super finition des 4 faces
4 seitig feinstgeschliffen
4 sides superfinish



A x B	L	Serrage Spannsystem Clamping	Art. N°
7 x 7	90	A	**740-7-90-SF**
8 x 8	115	A + B	**740-8-SF**
8 x 8	90	A + B	**740-8-90-SF**
10 x 10	115	A + B	**740-10-SF**
10 x 10	90	A + B	**740-10-90-SF**
12 x 12	130	A + B	**740-12-SF**
12 x 12	90	A + B	**740-12-90-SF**

Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.

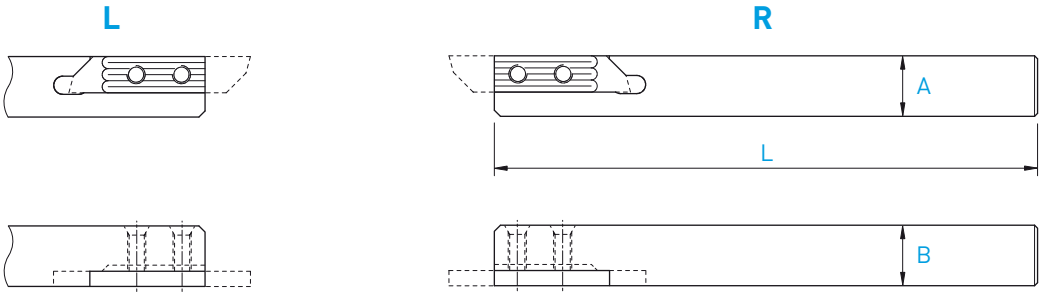
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.

Each holder is supplied with one or more screws. The keys must be ordered separately.

Porte-outils Halter Holders	Serrage standard (A) Standard Spannsystem (A) Standard clamping system (A)	Options	Serrage standard (B) Standard Spannsystem (B) Standard clamping system (B)	Options
740-SF-7	**V-M3X7-T8**	**C-T8**	-	-
740-SF-8			**V-M2.5X7.8-T8**	**C-T8**
740-SF-10				
740-SF-12				

Porte-outils en métal lourd anti-vibratoire
Schwingungdämpfender Schwermetallhalter
Low vibration heavy metal holders

730 / 740-NOVIBRA



A x B	L	Serrage Spannsystem Clamping	L	R
			Art. N°	**Art. N°**
7 x 7	115	A	**730-7-NOVIBRA**	**740-7-NOVIBRA**
8 x 8	115	A + B	**730-8-NOVIBRA**	**740-8-NOVIBRA**
8 x 8	80	A + B	-	**740-8-80-NOVIBRA**
10 x 10	115	A + B	-	**740-10-NOVIBRA**
12 x 12	130	A + B	-	**740-12-NOVIBRA**

Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.

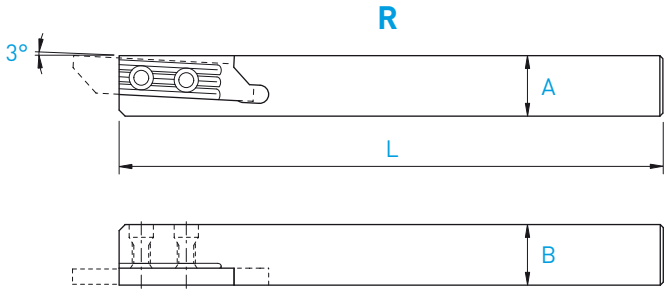
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.

Each holder is supplied with one or more screws. The keys must be ordered separately.

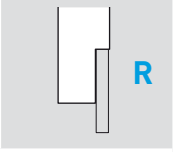
Porte-outils Halter Holders	Serrage standard (A) Standard Spannsystem (A) Standard clamping system (A)	Options	Serrage standard (B) Standard Spannsystem (B) Standard clamping system (B)	Options
730/740-NOVIBRA-7	**V-M3X7-T8**	**C-T8**	-	-
730/740-NOVIBRA-8				
740-NOVIBRA-10			**V-M2.5X7.8-T8**	**C-T8**
740-NOVIBRA-12				

740X3-SF

Porte-outils
Halter
Holders



Super finition des 4 faces
4 seitig feinstgeschliffen
4 sides superfinish



A x B	L	Serrage Spannsystem Clamping	Art. N°
8 x 8	115	A + B	**740X3-8-SF**
10 x 10	115	A + B	**740X3-10-SF**
12 x 12	130	A + B	**740X3-12-SF**

Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.

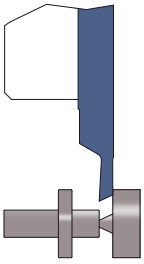
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.

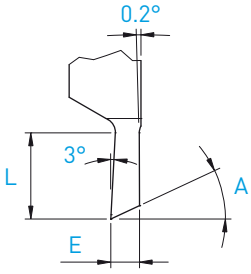
Each holder is supplied with one or more screws. The keys must be ordered separately.

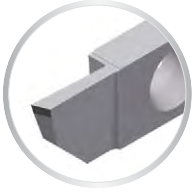
Porte-outils Halter Holders	Serrage standard (A) Standard Spannsystem (A) Standard clamping system (A)	Options	Serrage standard (B) Standard Spannsystem (B) Standard clamping system (B)	Options
740X3-8-SF	**V-M3X7-T8**	**C-T8**	**V-M2.5X7.8-T8**	**C-T8**
740X3-10-SF				
740X3-12-SF				

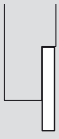
Tronçonnage
Abstechen
Parting off

741SF





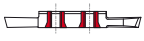




R

E	L	A	Art. N°	KSTF	KN (µK10-20)	HTC	HTC-RE	HTAF	HTAF-RE	HTAXF	HTAXF-RE	HTiN	HN (µK10)	XTAF	XTAXF	XTAXF-RE	XN (µK01)
				P M N S	P M N S	P	P	P M N S	P M N S	P M S	P M S	P M N S	N S	P M N S	P M S	P M S	N S
0.5	2.0	25°	**741SF-0.5-25°**	●	●	●	●	●	●	●		●	●	●	●		●
0.8	3.0	25°	**741SF-0.8-25°**	●	●	●	●	●	●	●			●	●	●		●
1.0	3.0	25°	**741SF-1.0-25°**	●	●	●	●	●	●	●	●		●	●	●	●	●
1.2	6.0	22°	**741SF-1.2-22°**	●	●	●	●	●	●	●	●		●	●	●	●	●

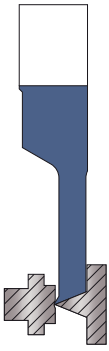
7XX-XX-B

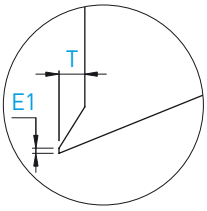


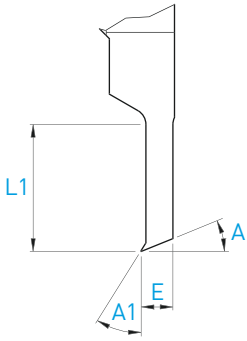
Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

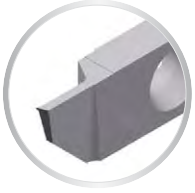
741SF-A

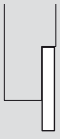
Coupe rentrante
Abstechen Zentrumfrei
Pip-free back parting off







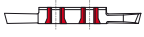




R

E1	E	A	A1	T	L1	Art. N°	TAF-RE	N
0.03	0.8	22°	32°	0.15	4	**741SF-0.8-22°-A3215**	●	●
0.03	1.0	22°	32°	0.15	4	**741SF-1.0-22°-A3215**	●	●
0.03	1.2	22°	32°	0.20	6	**741SF-1.2-22°-A3220**	●	●

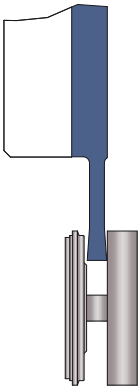
7XX-XX-B

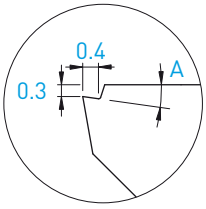


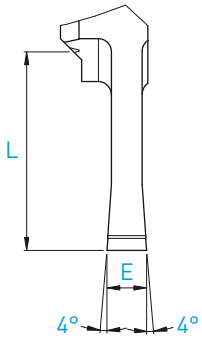
Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

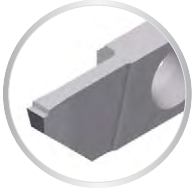
Tronçonnage
Abstechen
Parting off

741NSF-X





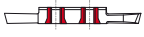




R

E	A	L	Art. N°	HCR-TF	HN (µk10)
1.5	8°	7.5	**741NSF-X840-1.5**	●	●
2.0	8°	8.0	**741NSF-X840-2.0**	●	●

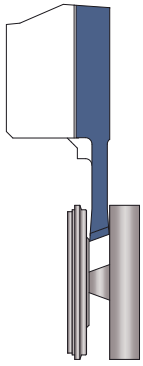
7XX-XX-B

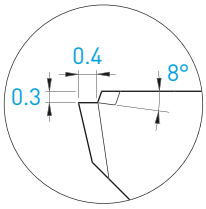


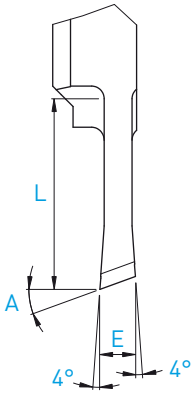
Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

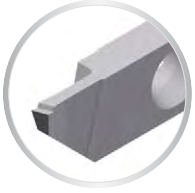
741SF-X

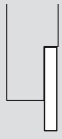
Tronçonnage
Abstechen
Parting off







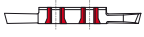




R

E	A	L	Art. N°	HCR-TF	HN (µK10)
1.1	20°	5.0	**741SF-X840-1.1-20°**	●	●
1.4	20°	7.5	**741SF-X840-1.4-20°**	●	●
1.5	5°	7.5	**741SF-X840-1.5-5°**	●	●
1.9	20°	8.0	**741SF-X840-1.9-20°**	●	●

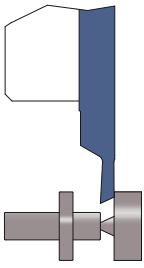
7XX-XX-B

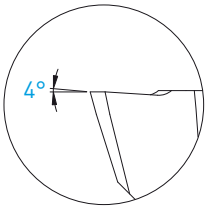


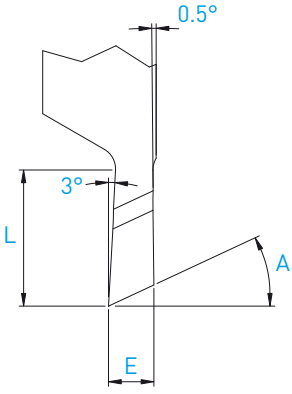
Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

Tronçonnage
Abstechen
Parting off

741SF-X4



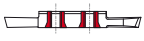




R

E	A	L	Art. N°	KSTF	KN (μk10-20)
0.8	25°	3.0	**741SF-X4-0.8-25**	●	●
1.0	25°	3.0	**741SF-X4-1.0-25**	●	●

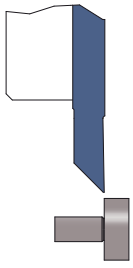
7XX-XX-B

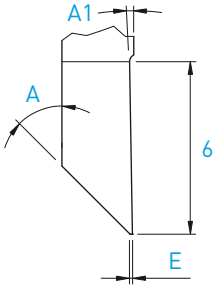


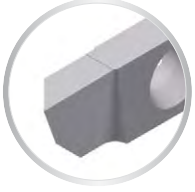
Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

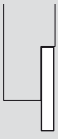
742SF

Tournage avant ébauche / finition
Vorwärts drehen schruppen / schlichten
Front turning for roughing / finishing





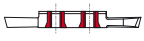




R

E	A	A1	Art. N°	KSTF	KSTF-RE	KN (µK10-20)	HTC	HTC-RE	HTAF	HTAF-RE	HTAXF	HTAXF-RE	HTiN	HN (µK10)	XTAF	XTAXF	XTAF-RE	XN (µK01)
				P M N S	P M N S	P M N S	P	P	P M N S	P M N S	P M S	P M	P M N S	N S	P M S	P M S	P M S	N S
0.03	45°	3°	**742SF-3/3-45°**	●	●	●	●	●	●	●	●	●	●	●	●	●		●
0.05	45°	3°	**742SF-5/5-45°**					●	●	●				●				
0.08	45°	1°	**742SF-8/8-45°**	●	●	●	●	●	●	●	●	●	●	●	●	●		●

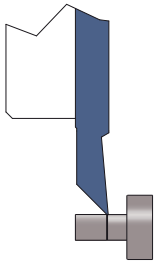
7XX-XX-B

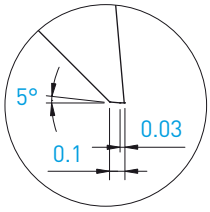


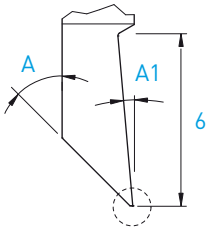
Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

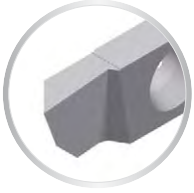
Tournage avant finition
Vorwärts drehen schlichten
Front turning for finishing

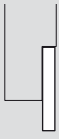
742SF-10/3







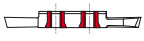




R

A	A1	Art. N°	KSTF	KSTF-RE	KN (µK10-20)	HTC	HTC-RE	HTAF	HTAF-RE	HTAXF	HTAXF-RE	HTiN	HN (µK10)	XTAF	XTAXF	XTAXF-RE	XN (µK01)
			P M N S	P M N S	P M N S	P	P	P M N S	P M N S	P M S	P M S	P M N S	N S	P M N S	P M S	P M S	N S
45°	5°	**742SF-10/3**	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

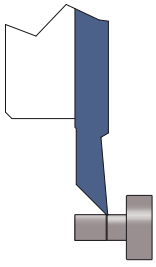
7XX-XX-B

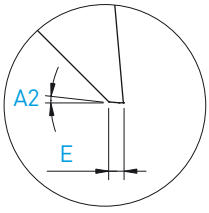


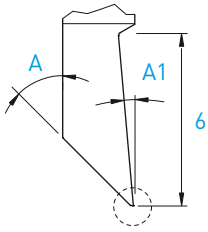
Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

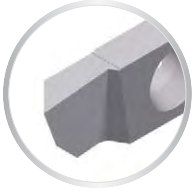
742SF-_/0

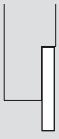
Tournage avant finition
Vorwärts drehen schlichten
Front turning for finishing







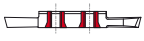




R

E	A	A1	A2	Art. N°	P M N S KSTF	P M N S KSTF-RE	P M N S KN (µK10-20)	P M N S HTAF-RE	P M N S XTAF-RE
0.10	45°	5°	5°	**742SF-10/0-5°-45°**	●	●	●	●	●
0.15	30°	3°	2°	**742SF-15/0-2°-30°**	●	●	●	●	●

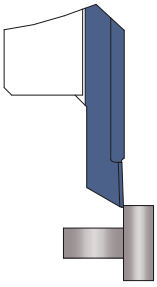
7XX-XX-B

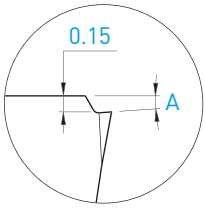


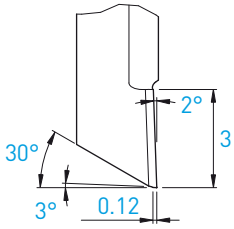
Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

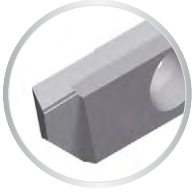
Tournage avant
Vorwärtsdrehen
Front turning

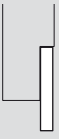
742SF-X







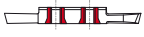




R

A	Art. N°	HTAXF	HCR-TF	HN (µk10)
		P M S	N	N S
4°	742SF-X412	●	●	●
8°	742SF-X812	●	●	●
12°	742SF-X1212	●	●	●

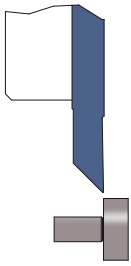
7XX-XX-B

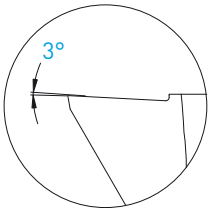


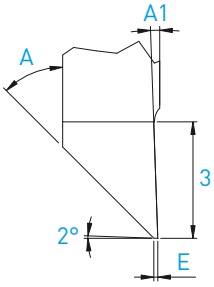
Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

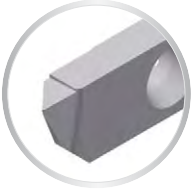
742SF-XZ

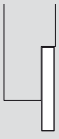
Tournage avant
Vorwärtsdrehen
Front turning







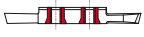




R

E	A	A1	Art. N°	P M N S KSTF	P M N S KN (µk10-20)
0.05	43°	2°	**742SF-XZ3-5/0-2-43**	●	●
0.10	43°	2°	**742SF-XZ3-10/0-2-43**	●	●

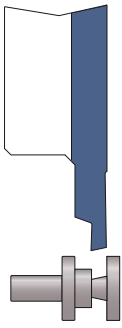
7XX-XX-B

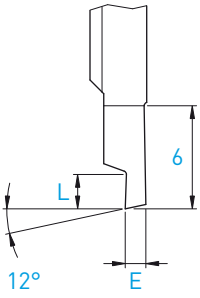


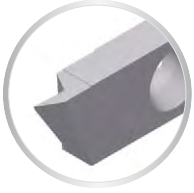
Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

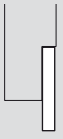
Tournage arrière ébauche
Rückwärts drehen schruppen
Back turning for roughing

743SF





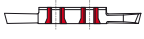




R

E	L	Art. N°	HTC P	HTAF P M N S	HN (µk10) N S
1.2	2.5	**743SF-120/0-12°**	●	●	●
1.4	3.0	**743SF-140/0-12°**	●	●	●
1.6	3.0	**743SF-160/0-12°**	●	●	●
1.8	4.0	**743SF-180/0-12°**	●	●	●

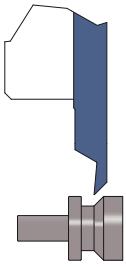
7XX-XX-B

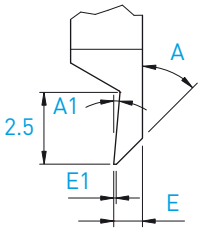


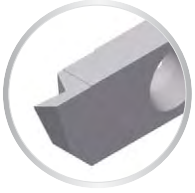
Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

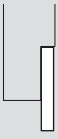
743SF-3/3

Tournage arrière ébauche / finition
Rückwärts drehen schruppen / schlichten
Back turning for roughing / finishing





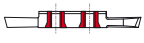




R

E1	E	A	A1	Art. N°	KSTF	KSTF-RE	KN (µK10-20)	HTC	HTC-RE	HTAF	HTAF-RE	HTAXF	HTAXF-RE	HTiN	HN (µK10)	XTAF	XTAXF	XTAXF-RE	XN (µK01)
					P M N S	P M N S	P M N S	P	P	P M N S	P M N S	P M S	P M S	P M N S	N S	P M N S	P M S	P M S	N S
0.03	1.0	45°	5°	**743SF-3/3-45°-1.0**	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
0.03	1.2	45°	5°	**743SF-3/3-45°-1.2**	●	●	●	●	●	●	●	●	●		●	●	●	●	●
0.10	1.0	45°	5°	**743SF-10/10-45°-1.0**	●	●	●	●	●	●	●	●	●		●	●	●	●	●
0.05	0.8	30°	3°	**743SF-5/5-30°-0.8**	●	●	●				●								
0.05	1.0	30°	3°	**743SF-5/5-30°-1.0**	●	●	●				●								

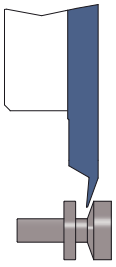
7XX-XX-B

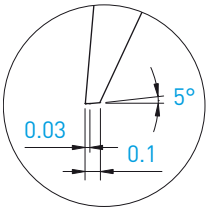


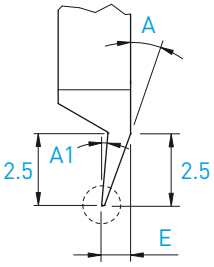
Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

Tournage arrière finition
Rückwärts drehen schlichten
Back turning for finishing

743SF-10/3



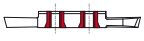




R

E	A	A1	Art. N°	KSTF	KSTF-RE	KN (µK10-20)	HTC	HTC-RE	HTAF	HTAF-RE	HTAXF	HTAXF-RE	HTiN	HN (µK10)	XTAF	XTAXF	XTAXF-RE	XN (µK01)
				P M N S	P M N S	P M N S	P	P	P M N S	P M N S	P M S	P M	P M N S	N S	P M N S	P M S	P M S	N S
1.0	20°	5°	**743SF-10/3**	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

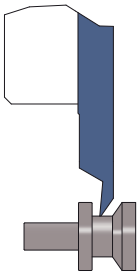
7XX-XX-B

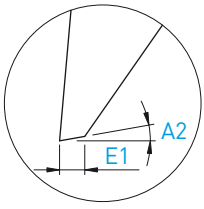


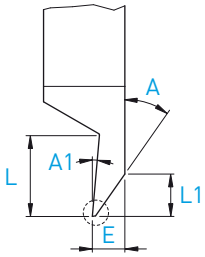
Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

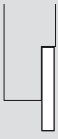
743SF-_/0

Tournage arrière finition
Rückwärts drehen schlichten
Back turning for finishing





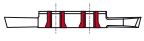




R

E1	E	L1	L	A	A1	A2	Art. N°	P M N S KSTF	P M N S KSTF-RE	P M N S KN (µk10-20)	P M N S HTAF-RE	P M N S XTAF-RE
0.08	1.0	1.6	2.5	30°	5°	2°	**743SF-8/0-2°-30°-1.0**	●	●	●	●	●
0.15	1.2	1.8	4.0	30°	3°	2°	**743SF-15/0-2°-30°-1.2**	●	●	●	●	●
0.10	1.0	1.3	2.5	35°	5°	10°	**743SF-10/0-10°-35°-1.0**	●	●	●	●	●

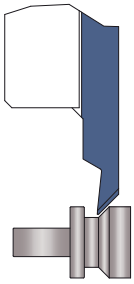
7XX-XX-B

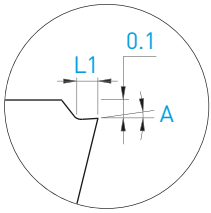


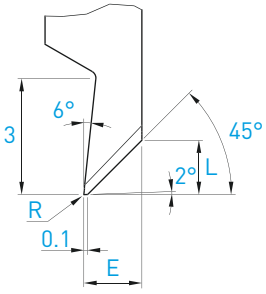
Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

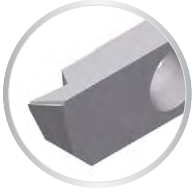
Tournage arrière
Rückwärts drehen
Back turning

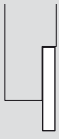
743SF-X







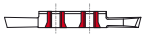




R

E	L	L1	A	R	Art. N°	KSTF	KN (µk10-20)	HTAXF	HCR-TF	HN (µk10)
			4°	0	**743SF-X412-45°-1.0**			●	●	●
1.0	0.9	0.12	8°	0	**743SF-X812-45°-1.0**			●	●	●
			12°	0	**743SF-X1212-45°-1.0**			●	●	●
			4°	0	**743SF-X412-45°-1.5**			●	●	●
1.5	1.4	0.12	8°	0	**743SF-X812-45°-1.5**			●	●	●
			12°	0	**743SF-X1212-45°-1.5**			●	●	●
1.5	1.3	0.24	6°	0.05	**743SF-X624-45-1.5-R05**	●	●			

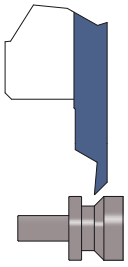
7XX-XX-B

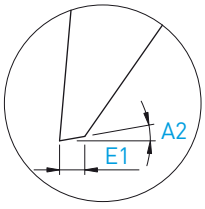


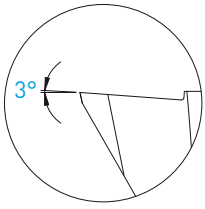
Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

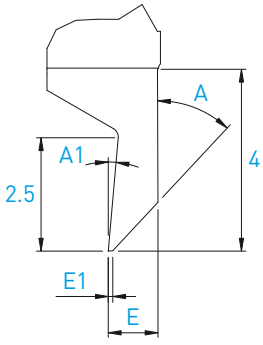
743SF-XZ

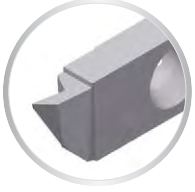
Tournage arrière
Rückwärts drehen
Back turning

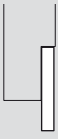








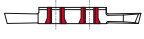




R

E1	E	A	A1	A2	Art. N°	P M N S KSTF	P M N S KN (µk10-20)
0.05	1.0	30°	5°	5°	**743SF-XZ3-5/0-5-30-1.0**	●	●
0.10	1.1	43°	5°	5°	**743SF-XZ3-10/0-5-43-1.1**	●	●

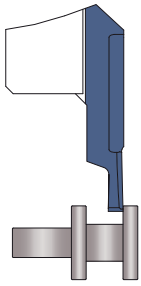
7XX-XX-B

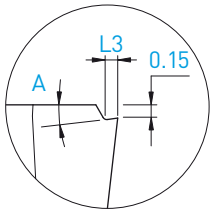


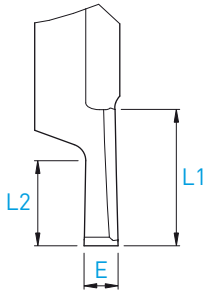
Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

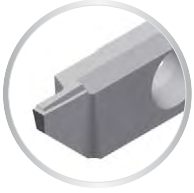
Fonçage-tournage
Einstechen und drehen
Grooving and turning

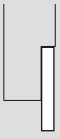
744SF-X







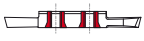




R

A	E	L1	L2	L3	Art. N°	HTAXF P M S	HCR-TF N	HN (µk10) N S
4°	0.5	3	1.0	0.12	**744SF-X412-0.5**	●	●	●
	0.6	3	1.5	0.12	**744SF-X412-0.6**	●	●	●
	0.8	4	2.0	0.12	**744SF-X412-0.8**	●	●	●
	1.0	4	2.5	0.12	**744SF-X412-1.0**	●	●	●
	1.0	4	2.5	0.24	**744SF-X424-1.0**	●	●	●
	1.0	4	2.5	0.36	**744SF-X436-1.0**	●	●	●
	1.2	5	3.0	0.12	**744SF-X412-1.2**	●	●	●
8°	0.6	3	1.5	0.12	**744SF-X812-0.6**	●	●	●
	0.8	4	2.0	0.12	**744SF-X812-0.8**	●	●	●
	1.0	4	2.5	0.12	**744SF-X812-1.0**	●	●	●
	1.2	5	3.0	0.12	**744SF-X812-1.2**	●	●	●

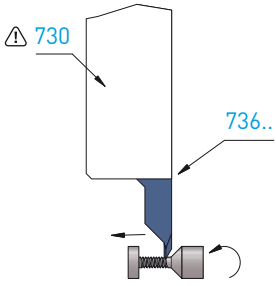
7XX-XX-B

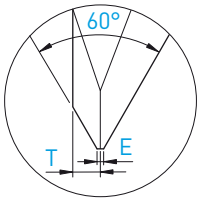


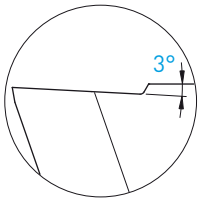
Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

736SF

Filetage à profil partiel – norme NIHS
Gewinde drehen mit Teilprofil – Norm NIHS
Threading with partial profile – norm NIHS



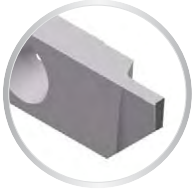


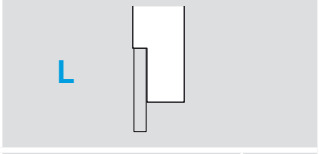


Filetage à droite
sens rotation machine M4

Rechtgewinde Drehrichtung
der Maschine M4

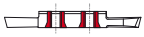
Right-hand thread rotating
machinery M4





Filetage Gewinde drehen Threading	Pas Steigung Pitch P	T	E 0/-0.01	Art. N°	P M N S HTAF	N S HN (µk10)
S0.50	0.125	0.07	0.015	**736SFX3-A60-S0.50-AR**	●	●
S0.60	0.150	0.09	0.020	**736SFX3-A60-S0.60-AR**	●	●
S0.70	0.175	0.10	0.020	**736SFX3-A60-S0.70-AR**	●	●
S0.80	0.200	0.12	0.025	**736SFX3-A60-S0.80-AR**	●	●
S0.90	0.225	0.13	0.030	**736SFX3-A60-S0.90-AR**	●	●
S1.00	0.250	0.15	0.035	**736SFX3-A60-S1.00-AR**	●	●

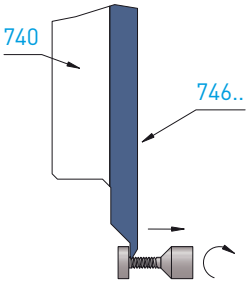
7XX-XX-B

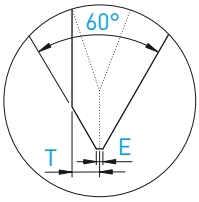


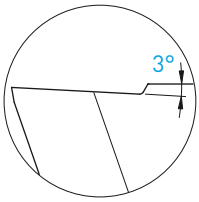
Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

Filetage à profil partiel – norme NIHS
Gewinde drehen mit Teilprofil – Norm NIHS
Threading with partial profile – norm NIHS

746SF



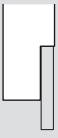




Filetage à droite
sens rotation machine M3

Rechtgewinde Drehrichtung
der Maschine M3

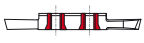
Right-hand thread rotating
machinery M3



R

Filetage Gewinde drehen Threading	Pas Steigung Pitch P	T	E 0/-0.01	Art. N°	KSTF	KN (µk10-20)	HTAF	HN (µk10)
S0.50	0.125	0.07	0.015	**746SFX3-A60-S0.50-AR**	●	●	●	●
S0.60	0.150	0.09	0.020	**746SFX3-A60-S0.60-AR**	●	●	●	●
S0.70	0.175	0.10	0.020	**746SFX3-A60-S0.70-AR**	●	●	●	●
S0.80	0.200	0.12	0.025	**746SFX3-A60-S0.80-AR**	●	●	●	●
S0.90	0.225	0.13	0.030	**746SFX3-A60-S0.90-AR**	●	●	●	●
S1.00	0.250	0.15	0.035	**746SFX3-A60-S1.00-AR**	●	●	●	●

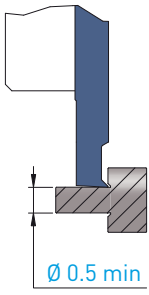
7XX-XX-B

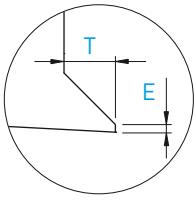


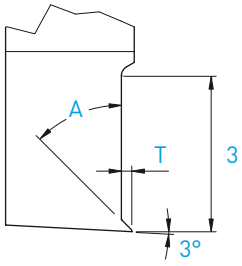
Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

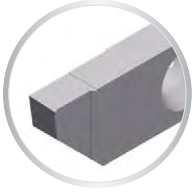
748SF

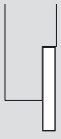
Plaquettes piqûre avant
Fronteinstich WSP
Front grooving inserts







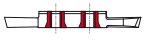




R

E 0/-0.01	A	T	Art. N°	KSTF	KSTF-RE	KN (µk10-20)	HTC	HTC-RE	HTAF	HTAF-RE	HTiN	HN (µk10)
				P M N S	P M N S	P M N S	P	P	P M N S	P M N S	P M N S	N S
0.03	45°	0.2	**748SF-E03-A45°-L20**	●	●	●	●	●	●	●		●
0.05	45°	0.3	**748SF-E05-A45°-L30**	●	●	●	●	●	●		●	●
0.08	45°	0.5	**748SF-E08-A45°-L50**	●	●	●	●	●	●		●	●

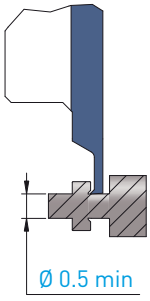
7XX-XX-B

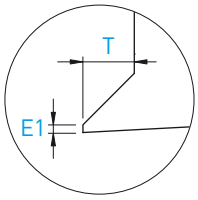


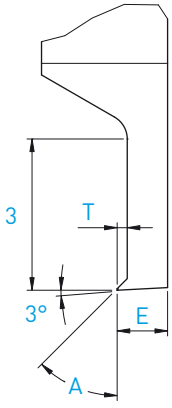
Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

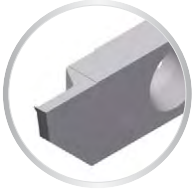
Plaquettes piqûre arrière
Rückeinstich WSP
Back grooving inserts

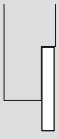
749SF







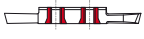




R

E1 0/-0.01	A	T	E	Art. N°	KSTF	KSTF-RE	KN (µk10-20)	HTC	HTC-RE	HTAF	HTAF-RE	HTiN	HN (µk10)
					P M N S	P M N S	P M N S	P	P	P M N S	P M N S	P M N S	N S
0.03	45°	0.2	1.0	**749SF-E03-A45°-L20-B100**	●	●	●	●	●	●	●		●
0.05	45°	0.3	1.0	**749SF-E05-A45°-L30-B100**	●	●	●	●		●			●
0.08	45°	0.5	1.2	**749SF-E08-A45°-L50-B120**	●	●	●	●	●	●			●

7XX-XX-B

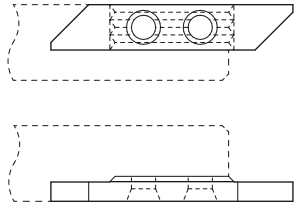


Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

731-ESF / 741-ESF

Plaquettes ébauches
WSP-Rohlinge
Blank inserts

L



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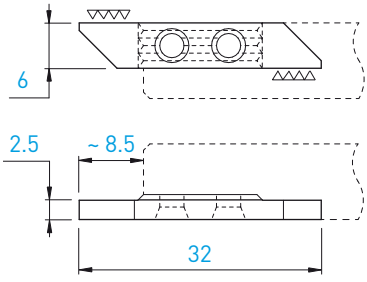
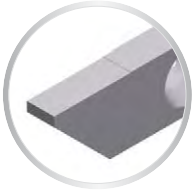
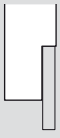




L

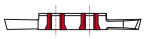
R



Art. N°	KSTF	KN (µK10-20)	HTC	HTAF	HTAXF	HCR-TF	HTiN	HN (µK10)	XTC	XTAF	XN (µK01)
	P M N S	P M N S	P	P M N S	P M	N	P M N S	N S	P	P M N S	N S
731-ESF	●	●	●	●	●	●	●	●	●	●	●

Art. N°	KSTF	KN (µK10-20)	HTC	HTAF	HTAXF	HCR-TF	HTiN	HN (µK10)	XTC	XTAF	XN (µK01)
	P M N S	P M N S	P	P M N S	P M S	N	P M N S	N S	P	P M N S	N S
741-ESF	●	●	●	●	●	●	●	●	●	●	●

7XX-XX-B

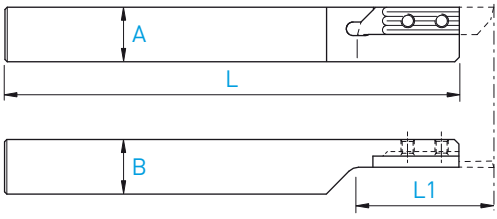


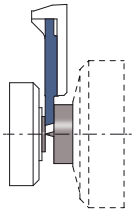
Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

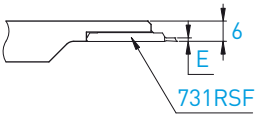
Porte-outils
Halter
Holders

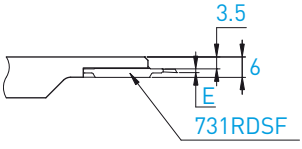
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

730RC



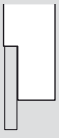






L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line



A x B	L	L1	Art. N°
8 x 8	115	24	**730RC-8**
10 x 10	115	24	**730RC-10**
12 x 12	130	30	**730RC-12**
12.7 x 12.7	130	30	**730RC-12.7**
16 x 16	130	40	**730RC-16**

Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

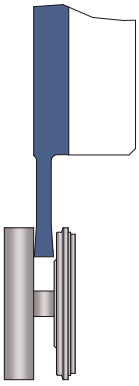
Jeder Halter wird mit einer oder mehreren Schrauben geliefert.
Die Schlüssel sind separat zu bestellen.

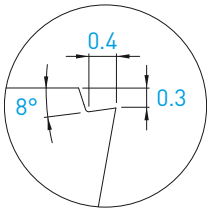
Each holder is supplied with one or more screws.
The keys must be ordered separately.

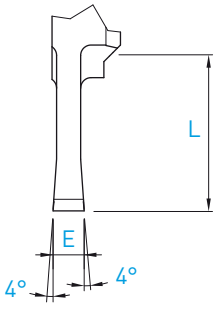
Porte-outils Halter Holders	Serrage standard (A) Standard Spannsystem (A) Standard clamping system (A)	Options
730RC	**V-M3X5.5-T8**	**C-T8**

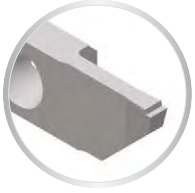
731NSF-X

Tronçonnage
Abstechen
Parting off





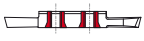




R

E	L	Art. N°	HCR-TF	HN (µK10)
1.5	7.5	**731NSF-X840-1.5**	●	●

7XX-XX-B

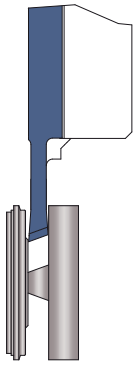


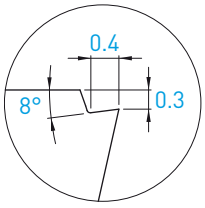
Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

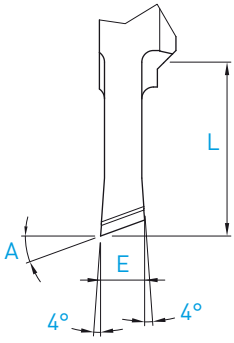
Tronçonnage
Abstechen
Parting off

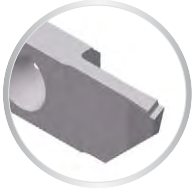
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

731RSF-X







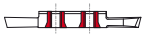


L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

E	L	A	Art. N°	HCR-TF	HN (µk10)
1.5	7.5	5°	**731RSF-X840-1.5-5**	●	●
1.4	7.5	20°	**731RSF-X840-1.4-20**	●	●
1.9	7.5	20°	**731RSF-X840-1.9-20**	●	●

7XX-XX-B

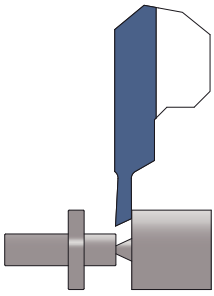


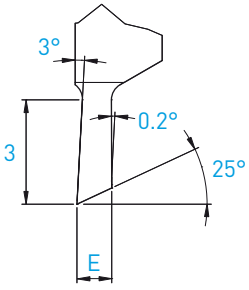
Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

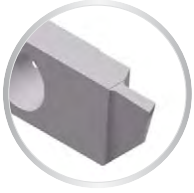
731RSF

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

Tronçonnage
Abstechen
Parting off





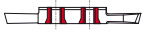


L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

E	Art. N°	HTAF (P M N S)	HTiN (P M N S)	HN (µk10) (N S)
1.0	**731RSF-1.0-25°**	●	●	●

7XX-XX-B

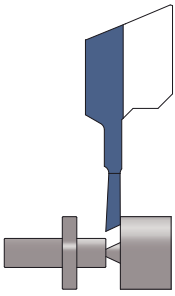


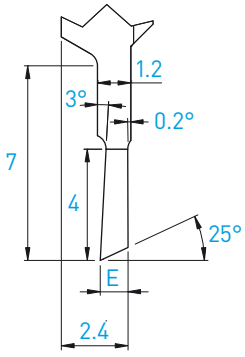
Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

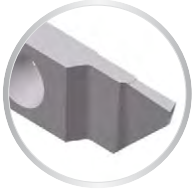
Tronçonnage
Abstechen
Parting off

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

731RDSF





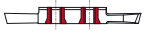


L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

E	Art. N°	HTAF	HTiN	HN (µk10)
0.8	**731RDSF-0.8-25°**	●		●
1.0	**731RDSF-1.0-25°**	●	●	●

7XX-XX-B

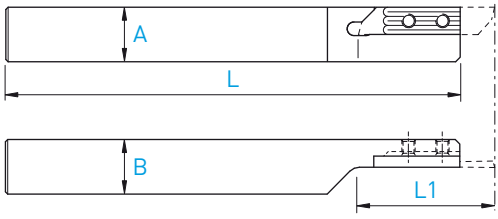


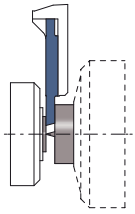
Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

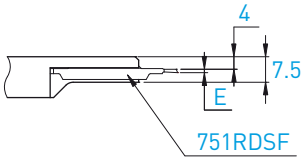
750RC

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

Porte-outils
Halter
Holders







L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

A x B	L	L1	Art. N°
12 x 12	130	30	**750RC-12**
16 x 16	130	40	**750RC-16**

Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

Jeder Halter wird mit einer oder mehreren Schrauben geliefert.
Die Schlüssel sind separat zu bestellen.

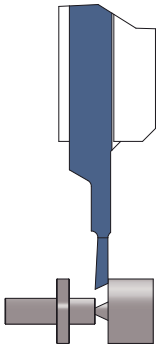
Each holder is supplied with one or more screws.
The keys must be ordered separately.

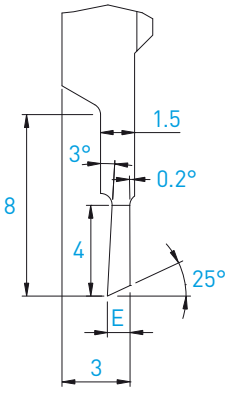
Porte-outils Halter Holders	Serrage standard (A) Standard Spannsystem (A) Standard clamping system (A)	Options
750RC	**V-M4X7.3-T15**	**C-T15**

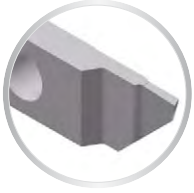
Tronçonnage
Abstechen
Parting off

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

751RDSF





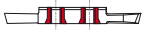


L (R)

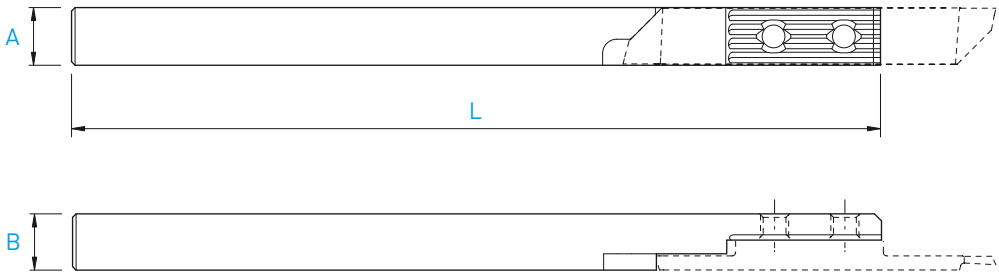
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

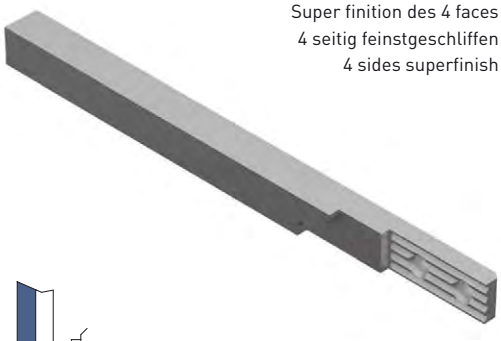
E	Art. N°	P M N S HTAF	P M N S HTiN	P M N S HN (µk10)
0.8	**751RDSF-0.8-25°**	●		●
1.0	**751RDSF-1.0-25°**	●		●

7XX-XX-B



Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05



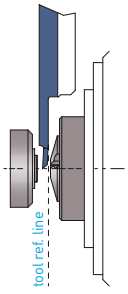


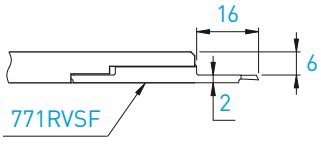
Super finition des 4 faces
4 seitig feinstgeschliffen
4 sides superfinish

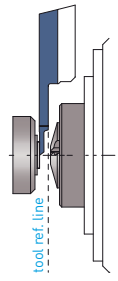
L (R)

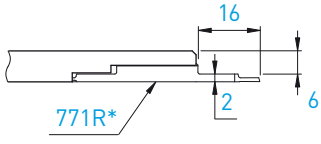
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

A x B	L	Art. N°
8.2 x 8	115	**770-8.2X8-SN4-SF**









* voir TOP-Line
* siehe TOP-Line
* see TOP-Line

Porte-outils Halter Holders	Serrage standard (A) Standard Spannsystem (A) Standard clamping system (A)	Options
770-SN4-SF	**V-M4X7.3-T15**	**C-T15**

Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

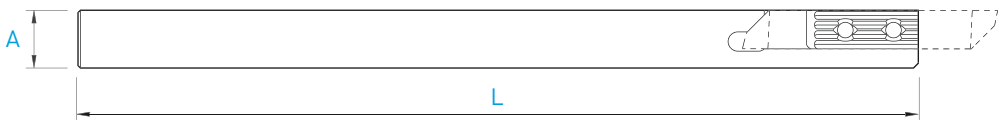
Jeder Halter wird mit einer oder mehreren Schrauben geliefert.
Die Schlüssel sind separat zu bestellen.

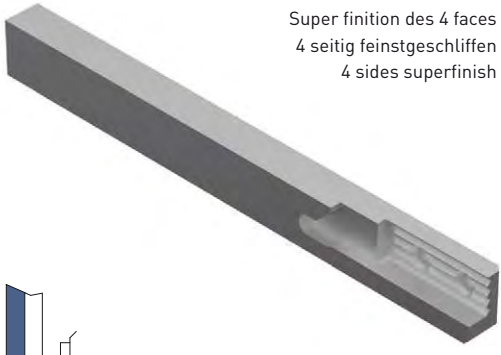
Each holder is supplied with one or more screws.
The keys must be ordered separately.

Porte-outils
Halter
Holders

SwissNano 7

770-SN7-SF

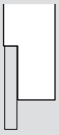




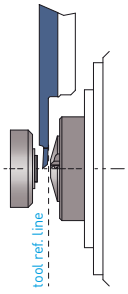
Super finition des 4 faces
4 seitig feinstgeschliffen
4 sides superfinish

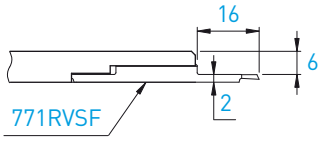
L (R)

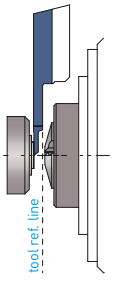
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

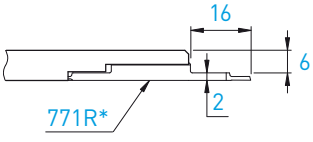


A x B	L	Art. N°
12 x 8	115	**770-12X8-SN7-SF**









* voir TOP-Line
* siehe TOP-Line
* see TOP-Line

Porte-outils Halter Holders	Serrage standard (A) Standard Spannsystem (A) Standard clamping system (A)	Options
770-SN7-SF	**V-M4X7.3-T15**	**C-T15**

Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

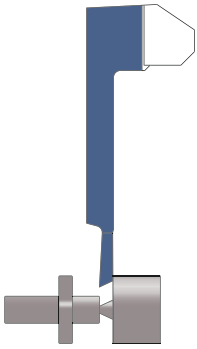
Jeder Halter wird mit einer oder mehreren Schrauben geliefert.
Die Schlüssel sind separat zu bestellen.

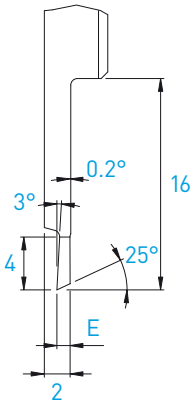
Each holder is supplied with one or more screws.
The keys must be ordered separately.

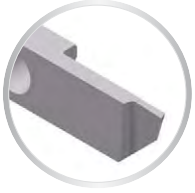
771RVSF

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

Tronçonnage
Abstechen
Parting off





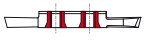


L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

E	Art. N°	TAF	N (µK20)
1.0	**771RVSF-1.0-25°**	●	●
1.2	**771RVSF-1.2-25°**	●	●
1.5	**771RVSF-1.5-25°**	●	●

7XX-XX-B

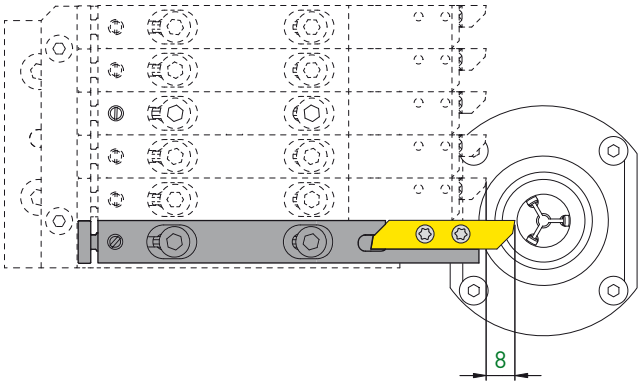


Sur demande pour serrage type B, voir page 2.05
Auf Anfrage für B-Spannsystem, siehe Seite 2.05
On request for B clamping system, see page 2.05

Porte-outils spéciaux de tronçonnage
Sonder Abstechwerkzeughalter
Special parting off tool holders

MODU-Line

ML12



Type de machine Maschinen-Typ Type of machine	Porte-outils Halter Holders	Art. N°	Plaquettes type WSP Typ Inserts type
SwissNano	ML12	**ML12A-730RC-SWISS-NANO**	731RSF / 731RDSF
		ML12A-750RC-SWISS-NANO	751RDSF

Voir chapitre MODU-Line
Siehe Kapitel MODU-Line
See chapter MODU-Line

Pièces de rechange et accessoires
Ersatzteile und Zubehöre
Spare parts and accessories

	Porte-outils Halter Holders	Serrage standard (A) Standard Spannsystem (A) Standard clamping system (A)	Options	Serrage type B Spannsystem Typ B Clamping system type B	Options
710	710-6 / - NOVIBRA	**V-M2.5X5.8-T8**	**C-T8**	-	-
	710-7 / - NOVIBRA / - SF	**V-M2.5X6.5-T8**			
	710-8 / - NOVIBRA / -SF	**V-M2.5X7.8-T8**			
	710-10 - 710-12				
730	730-7 / - NOVIBRA	**V-M3X7-T8**	**C-T8**	-	-
	730-8 / - NOVIBRA			**V-M2.5X7.8-T8**	**C-T8**
	730-10 - 730-12			-	-
	730RC	**V-M3X5.5-T8**		-	-
740	740-7 /-NOVIBRA /-SF	**V-M3X7-T8**	**C-T8**	-	-
	740-8 -12 / -SF / -NOVIBRA			**V-M2.5X7.8-T8**	**C-T8**
	740X3-SF				
750	750RC	**V-M4X7.3-T15**	**C-T15**	-	-
770	770-SN-SF	**V-M4X7.3-T15**	**C-T15**	-	-

ONE-Line

APPLITEC
CUTTING TOOLS

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1	3	4	X	-	2.0	-	R20	-	KST

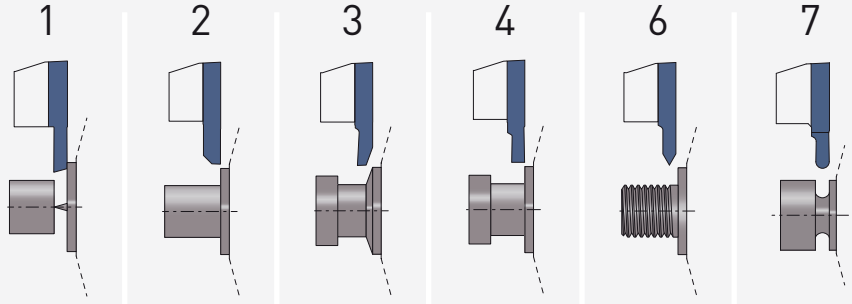
Dimension
Abmessung
Dimension

Rayon
Radius
Radius

Nuance
Sorte
Grade

Géométrie de coupe	brise-copeaux	particularités
Schneidgeometrie	Spanbrecher	Sondereigenschaften
Cutting geometry	chip breaker	special features

Géométrie d'usinage
Bearbeitungsgeometrie
Machining geometry

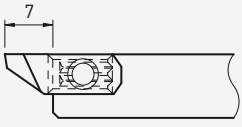


Gamme de produit	définit la compatibilité des plaquettes avec le porte-outils
Produktserie	definiert die Kompatibilität der Wendeschneidplatten mit dem Werkzeughalter
Product series	define the compatibility of the inserts with the toolholder

L = 3 (chiffre impair / ungerade Zahl / uneven number)

R = 4 (chiffre pair / gerade Zahl / even number)

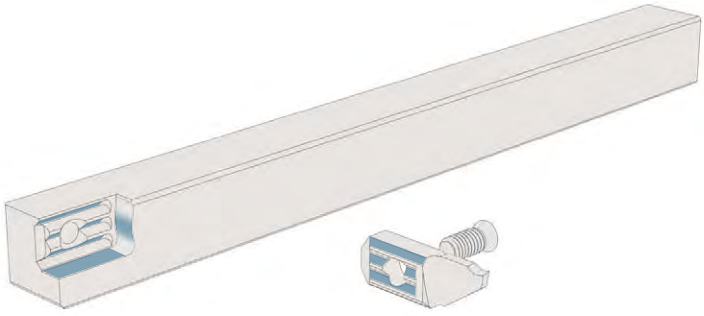
L	R
130	140

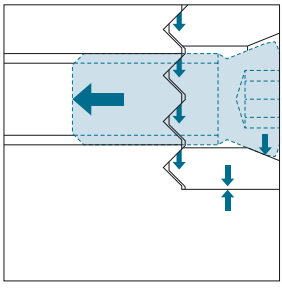


Applitec série 100	Système de serrage à denture décalée avec 1 vis de fixation
Applitec 100 Serie	Spannsystem mit 1 Schraube und verschobener Verzahnung
Applitec 100 series	Shifted teeth clamping system with 1 screw

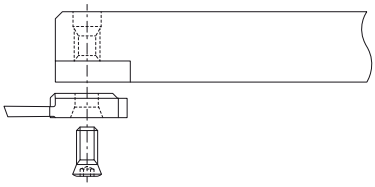
Rigid !

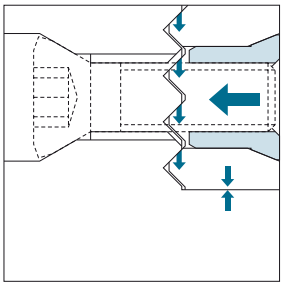
Système de serrage Applitec à denture décalée
Applitec-Spannsystem mit verschobener Verzahnung
Applitec clamping system with shifted teeth





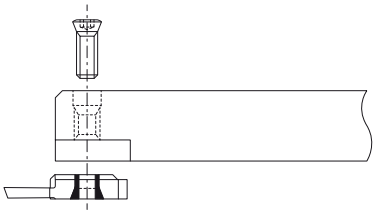
Serrage standard (A)
Standard Spannsystem (A)
Standard clamping system (A)





Serrage type B*
Spannsystem Typ B*
Clamping system type B*

ajouter -B après le numéro d'article
-B nach der Artikelreferenz hinzufügen
add -B after the article number

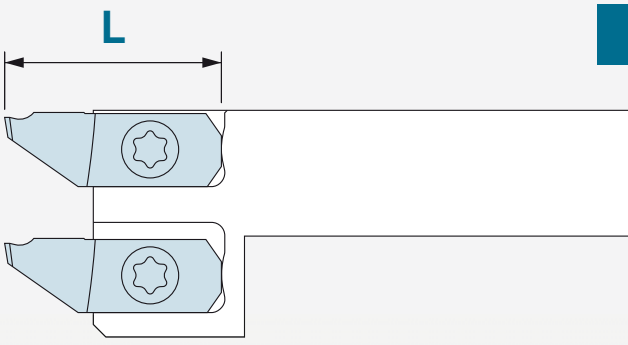


Changement de la plaquette possible dans la machine, sans démontage du porte-outil
WSP-Austauschmöglichkeit in der Maschine ohne Halterausbau
The insert can be changed in the machine without removing the tool holder

* = sur demande / auf Anfrage / on request

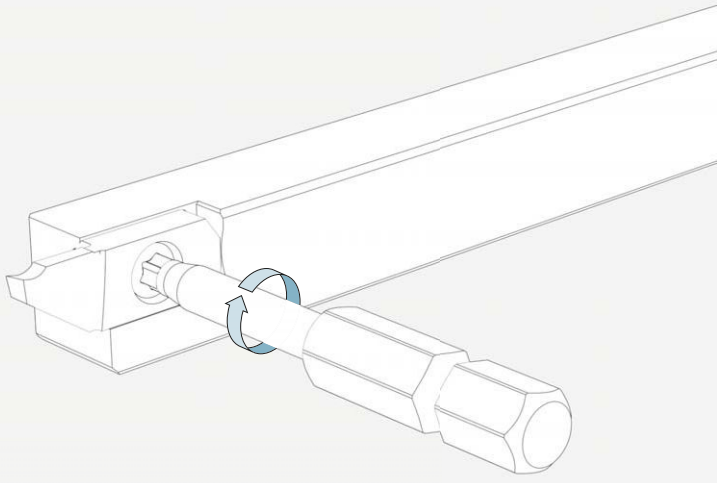
Space requirement

Conçu pour maximiser l'efficacité dans les espaces les plus restreints
Entwickelt, um die Effizienz auf engstem Raum zu maximieren
Designed to maximize efficiency in the tightest spaces



Optimal clamping

Le couple de serrage recommandé est de 2 Nm
Das empfohlene Anzugsdrehmoment beträgt 2 Nm
The recommended tightening torque is 2 Nm



Nuances
Sorten
Grades

KN

µK10 - µK20

K10 - K20

Non revêtu
Unbeschichtet
Uncoated

P ★☆☆☆☆
M ★☆☆☆☆
N ★★★☆☆
S ★★★☆☆

- nuance de base non revêtue micro-grain alliant une très bonne résistance à l'usure et ténacité
- recommandé pour l'usinage des matières ne nécessitant aucun revêtement par exemple le titane pur

- unbeschichtete Basis-Nuance mit feiner Körnung, die eine sehr gute Verschleißfestigkeit und Zähigkeit vereint
- empfohlen für die Bearbeitung von Materialien, die keine Beschichtung erfordern, wie z. B. reines Titan

- uncoated base grade with fine grain, combining excellent wear resistance and toughness
- recommended for machining materials that require no coating, such as pure titanium

KTA

µK10 - µK20

K10 - K20

µK10 - µK20 + revêtement PVD
µK10 - µK20 + PVD Beschichtung
µK10 - µK20 + PVD coating

TF F **M** E

P ★★★★☆
M ★★★★★
N ★☆☆☆☆
S ★★★★★

- nuance universelle
- 1er choix pour l'usinage des aciers, aciers inoxydables et alliage de titane

- universelle Sorte
- erste Wahl für die Bearbeitung von Stahl, rostfreiem Stahl und Titanlegierungen

- universal grade
- first choice for machining steel, stainless steel, and titanium alloys

KST

µK10 - µK20

K10 - K20

µK10 - µK20 + revêtement PVD
µK10 - µK20 + PVD Beschichtung
µK10 - µK20 + PVD coating

TF F **M** E

P ★★★★☆
M ★★★★★
N ★☆☆☆☆
S ★★★★★

- nuance très résistante à l'usure et à la température
- 1er choix pour les aciers > 50 HRC, les alliages à base de nickel, chrome-cobalt, inox et titane allié

- sehr verschleiß- und temperaturbeständige Sorte
- erste Wahl für Stähle > 50 HRC, Nickelbasislegierungen, Chrom-Kobalt, Edelstahl und legiertes Titan

- highly wear- and temperature-resistant grade
- first choice for steels > 50 HRC, nickel-based alloys, chrome-cobalt, stainless steels, and alloyed titanium

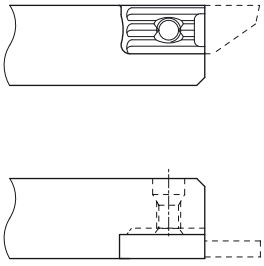
Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

Matière Werkstoff Material		Tournage Drehen Turning			Tronçonnage Abstechen Parting off		
		VC (m/min)	Prof. de passe Schnitttiefe Depth of cut (mm)	Avance Vorschub Feed (mm/U)	VC (m/min)	Largeur de coupe Abstechbreite Cutting width (mm)	Avance Vorschub Feed (mm/U)
Acier de décolletage Automatenstahl Free-cutting steel	P	120 - 200	0.05 - 1.0 1.0 - 4.0	0.01 - 0.15 0.05 - 0.25	80 - 150	0.50 - 1.50 1.50 - 2.50	0.01 - 0.08 0.03 - 0.15
Acier Stahl Steel < 600 N/mm²	P	80 - 160	0.05 - 1.0 1.0 - 4.0	0.01 - 0.15 0.05 - 0.25	70 - 120	0.50 - 1.50 1.50 - 2.50	0.01 - 0.06 0.03 - 0.12
Acier Stahl Steel < 800 N/mm²	P	60 - 120	0.05 - 1.0 1.0 - 4.0	0.01 - 0.10 0.05 - 0.20	60 - 100	0.50 - 1.50 1.50 - 2.50	0.01 - 0.05 0.03 - 0.10
Acier Stahl Steel > 800 N/mm²	P	50 - 100	0.05 - 1.0 1.0 - 3.0	0.01 - 0.08 0.05 - 0.15	40 - 80	0.50 - 1.50 1.50 - 2.50	0.01 - 0.04 0.03 - 0.08
Acier inoxydable Rostfreistahl Stainless steel	M	60 - 120	0.05 - 1.0 1.0 - 3.0	0.01 - 0.08 0.05 - 0.15	60 - 100	0.50 - 1.50 1.50 - 2.50	0.01 - 0.04 0.03 - 0.08
Aluminium Si <12%	N	200 - 1000	0.05 - 1.0 1.0 - 4.0	0.01 - 0.20 0.05 - 0.40	180 - 400	0.50 - 1.50 1.50 - 2.50	0.01 - 0.10 0.03 - 0.20
Aluminium Si >12%	N	180 - 800	0.05 - 1.0 1.0 - 4.0	0.01 - 0.20 0.05 - 0.40	150 - 300	0.50 - 1.50 1.50 - 2.50	0.01 - 0.10 0.03 - 0.20
Cuivre, laiton, bronze Kupfer, Messing, Bronze Copper, brass, bronze	N	100 - 500	0.05 - 1.0 1.0 - 4.0	0.01 - 0.20 0.05 - 0.35	100 - 300	0.50 - 1.50 1.50 - 2.50	0.01 - 0.10 0.03 - 0.20
Titane Titan Titanium	S	30 - 70	0.05 - 1.0 1.0 - 4.0	0.01 - 0.08 0.05 - 0.15	30 - 50	0.50 - 1.50 1.50 - 2.50	0.01 - 0.03 0.03 - 0.06

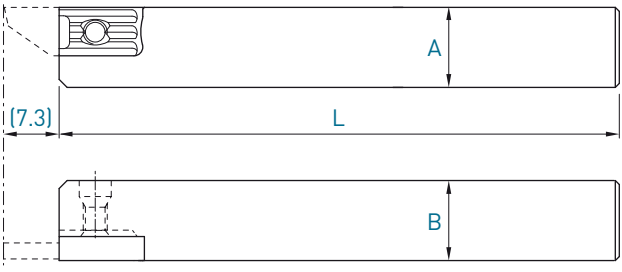
130 / 140

Porte-outils
Halter
Holders

L

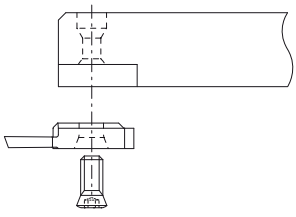


R

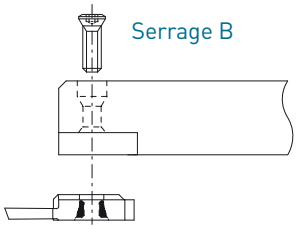


A x B	L	Serrage Spannsystem Clamping	L **Art. N°**	R **Art. N°**
8 x 8	115	A+B	**130-8**	**140-8**
10 x 10	115	A+B	**130-10**	**140-10**
12 x 12	115	A+B	**130-12**	**140-12**

Serrage A



Serrage B



Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

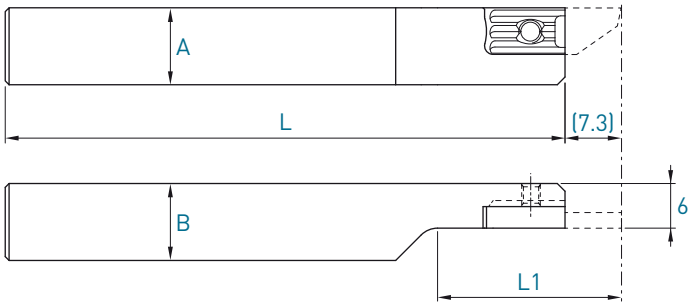
Porte-outils
Halter
Holders

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

130RC

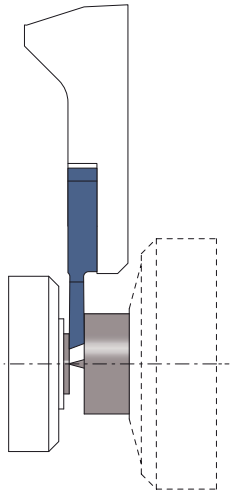
Utiliser des plaquettes type 131R
WSP Typ 131R verwenden
Use inserts type 131R

Voir pages 3.11 - 3.14
Siehe Seiten 3.11 - 3.14
See pages 3.11 - 3.14



L (R)
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

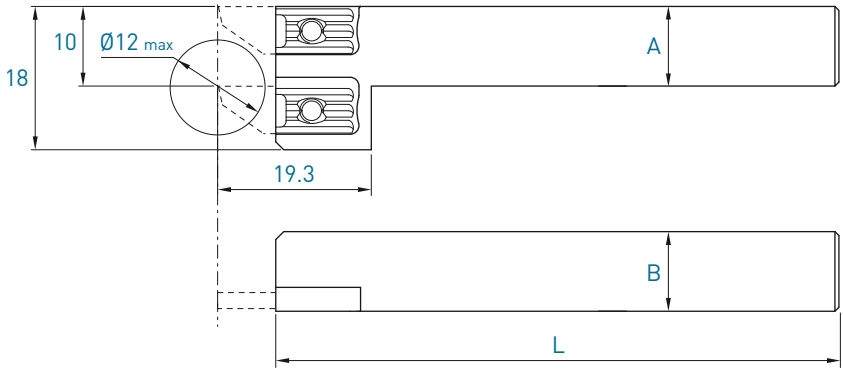
AxB	L	L1	Serrage Spannsystem Clamping	Art. N°
8 x 8	115	24	A	**130RC-8**
10 x 10	115	24	A	**130RC-10**
12 x 12	115	30	A	**130RC-12**



Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

140-DUO

R



R

A x B	L	Serrage Spannsystem Clamping	Art. N°
8 x 8	115	A+B	**140-8-H10-DUO**
10 x 10	115	A+B	**140-10-H10-DUO**
12 x 12	115	A+B	**140-12-H10-DUO**

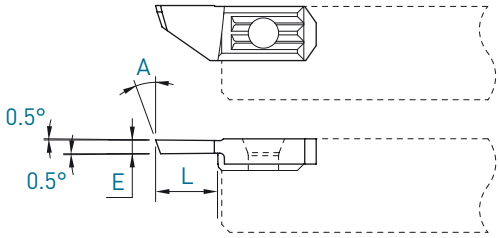
Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

Tronçonnage
Abstechen
Parting off

Coupe déportée
Versetztes Schneiden
Cut off line

131R

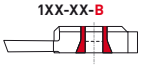
Cut R



L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

E	A	L	Art. N°	P M N S KTA	P M N S KST	P M N S KN (µk10-20)
1.0	20°	5	**131R-1.0-20**	●	●	●
1.2	20°	5	**131R-1.2-20**	●	●	●
1.5	20°	7	**131R-1.5-20**	●	●	●
2.0	20°	7	**131R-2.0-20**	●	●	●



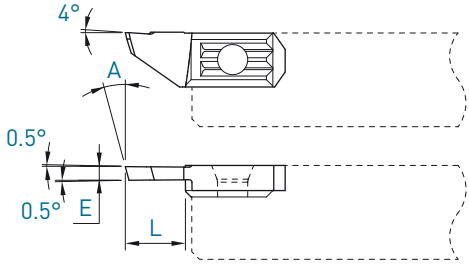
Sur demande pour serrage type B, voir page 3.04
Auf Anfrage für B-Spannsystem, siehe Seite 3.04
On request for B clamping system, see page 3.04

131RX4

Coupe déportée
Versetztes Schneiden
Cut off line

Tronçonnage
Abstechen
Parting off

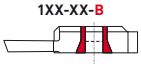
Cut R



L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

E	A	L	Art. N°	P M N S KTA	P M N S KST	P M N S KN (µk10-20)
1.0	15°	5	**131RX4-1.0**	●	●	●
1.5	15°	7	**131RX4-1.5**	●	●	●



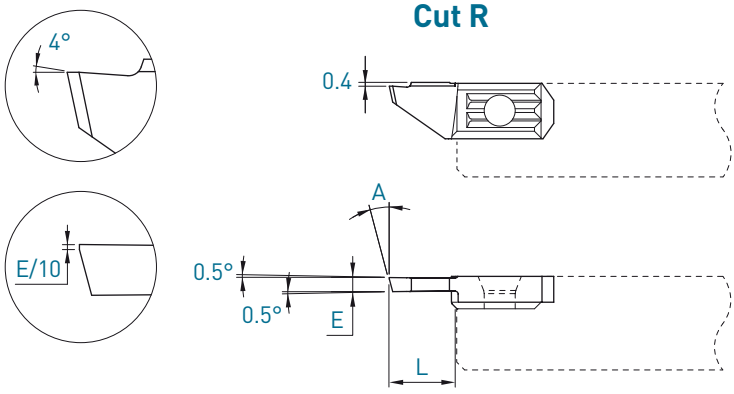
Sur demande pour serrage type B, voir page 3.04
Auf Anfrage für B-Spannsystem, siehe Seite 3.04
On request for B clamping system, see page 3.04

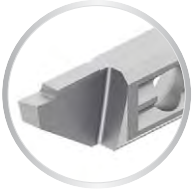
Tronçonnage
Abstechen
Parting off

Coupe déportée
Versetztes Schneiden
Cut off line

131RXF

Cut R

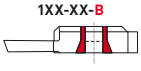




L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

E	A	L	Art. N°	KTA	KST	KN (µk10-20)
1.0	15°	5	**131RXF-1.0**	●	●	●
1.5	15°	7	**131RXF-1.5**	●	●	●

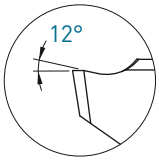


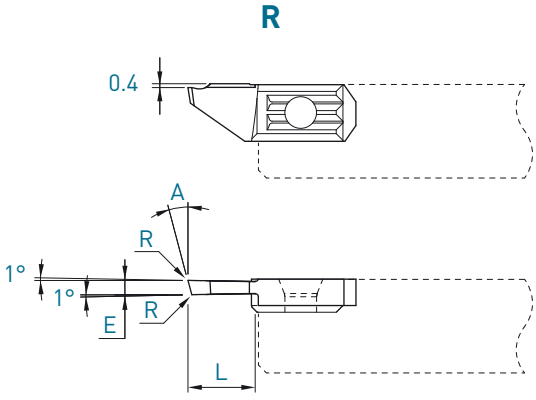
Sur demande pour serrage type B, voir page 3.04
Auf Anfrage für B-Spannsystem, siehe Seite 3.04
On request for B clamping system, see page 3.04

131RX12

Coupe déportée
Versetztes Schneiden
Cut off line

Tronçonnage
Abstechen
Parting off

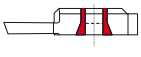




L (R)

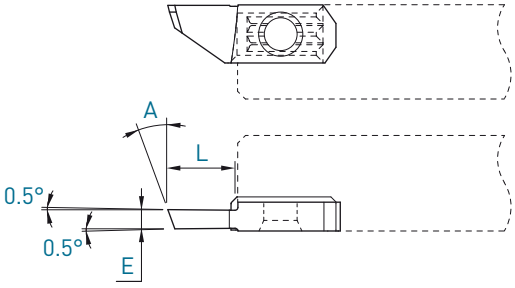
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

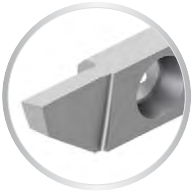
E	A	L	R	Art. N°	KTA	KST	KN (µk10-20)
1.0	15°	5	0.03	**131RX12-1.0**	●	●	●
1.5	15°	7	0.03	**131RX12-1.5**	●	●	●



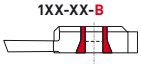
Sur demande pour serrage type B, voir page 3.04
Auf Anfrage für B-Spannsystem, siehe Seite 3.04
On request for B clamping system, see page 3.04

R





E	A	L	Art. N°	KTA	KST	KN (µk10-20)
				R		
0.6	20°	3	**141-0.6-20**	●	●	●
0.8	20°	5	**141-0.8-20**	●	●	●
1.0	20°	5	**141-1.0-20**	●	●	●
1.2	20°	5	**141-1.2-20**	●	●	●
1.5	20°	7	**141-1.5-20**	●	●	●
2.0	20°	7	**141-2.0-20**	●	●	●
2.5	20°	7	**141-2.5-20**	●	●	●

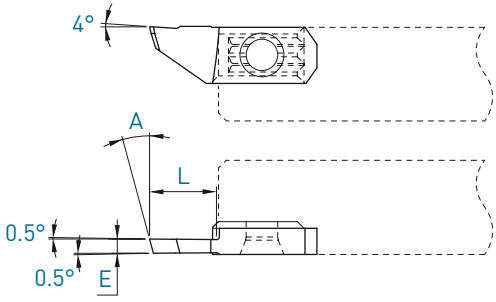


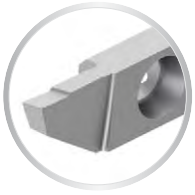
Sur demande pour serrage type B, voir page 3.04
Auf Anfrage für B-Spannsystem, siehe Seite 3.04
On request for B clamping system, see page 3.04

141X4

Tronçonnage
Abstechen
Parting off

R





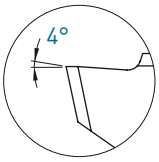
E	A	L	Art. N°	R KTA	R KST	R KN (µk10-20)
0.8	15°	5	**141X4-0.8**	●	●	●
1.0	15°	5	**141X4-1.0**	●	●	●
1.5	15°	7	**141X4-1.5**	●	●	●
2.0	15°	7	**141X4-2.0**	●	●	●

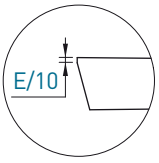
1XX-XX-B

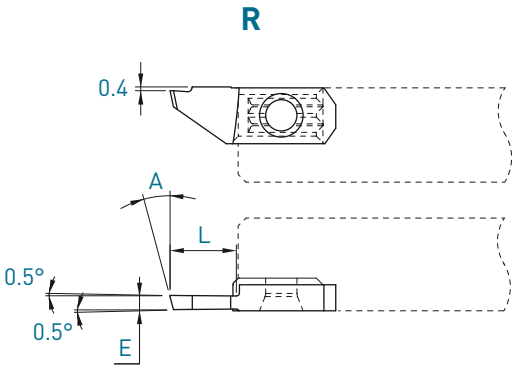
Sur demande pour serrage type B, voir page 3.04
Auf Anfrage für B-Spannsystem, siehe Seite 3.04
On request for B clamping system, see page 3.04

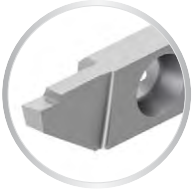
Tronçonnage
Abstechen
Parting off

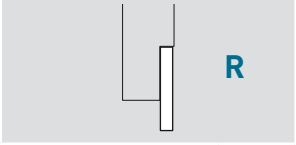
141XF



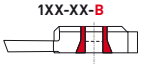








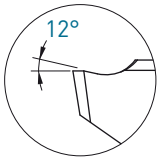
E	A	L	Art. N°	KTA	KST	KN (µk10-20)
1.0	15°	5	**141XF-1.0**	●	●	●
1.2	15°	5	**141XF-1.2**	●	●	●
1.5	15°	7	**141XF-1.5**	●	●	●

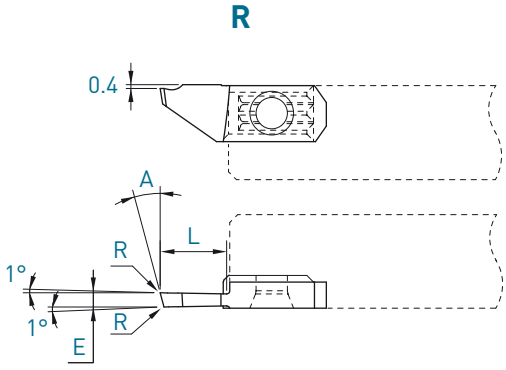


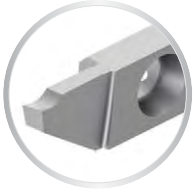
Sur demande pour serrage type B, voir page 3.04
Auf Anfrage für B-Spannsystem, siehe Seite 3.04
On request for B clamping system, see page 3.04

141X12

Tronçonnage
Abstechen
Parting off

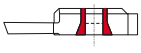




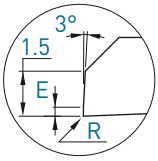


R

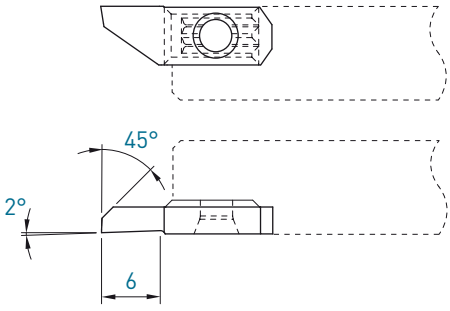
E	A	L	R	Art. N°	KTA	KST	KN (µk10-20)
0.5	15°	3	0.03	**141X12-0.5**	●	●	●
1.0	15°	5	0.03	**141X12-1.0**	●	●	●
1.5	15°	7	0.03	**141X12-1.5**	●	●	●

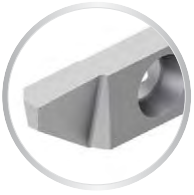


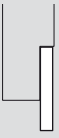
Sur demande pour serrage type B, voir page 3.04
Auf Anfrage für B-Spannsystem, siehe Seite 3.04
On request for B clamping system, see page 3.04



R

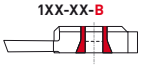






R

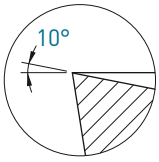
E	R	Art. N°	KTA	KST	KN (µk10-20)
0.3	0	**142-2**	●	●	●
0	0-0.01	**142-2-R01**	●	●	●
0	0.08	**142-2-R08**	●	●	●

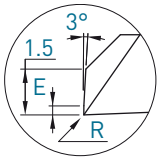


Sur demande pour serrage type B, voir page 3.04
Auf Anfrage für B-Spannsystem, siehe Seite 3.04
On request for B clamping system, see page 3.04

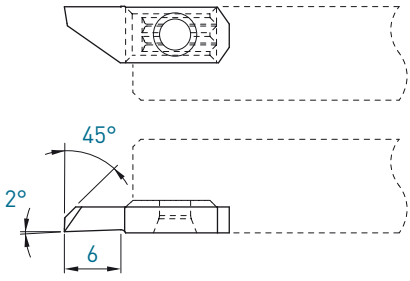
142X10

Tournage avant
Vorwärts drehen
Front turning



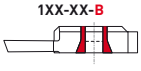


R

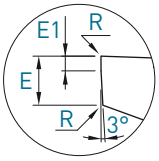


R

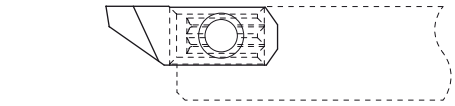
E	R	Art. N°	KTA	KST	KN (µk10-20)
0.3	0	**142X10-2**	●	●	●
0	0-0.01	**142X10-2-R01**	●	●	●
0	0.08	**142X10-2-R08**	●	●	●

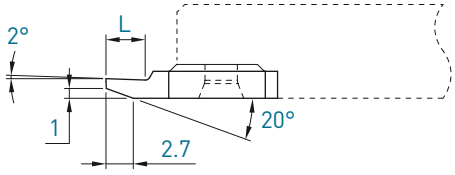


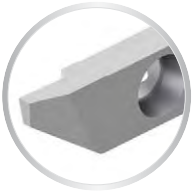
Sur demande pour serrage type B, voir page 3.04
Auf Anfrage für B-Spannsystem, siehe Seite 3.04
On request for B clamping system, see page 3.04



R



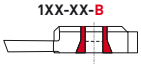




R

E	E1	L	R	Art. N°	KTA	KST	KN (µk10-20)
0.5	0.15	3	0	**143-0.5**	●	●	●
0.5	0	3	0-0.01	**143-0.5-R01**	●	●	●
0.5	0	3	0.08	**143-0.5-R08**	●	●	●
1.0	0.3	4	0	**143-1.0**	●	●	●
1.0	0	4	0	**143-1.0-R01**	●	●	●
1.0	0	4	0.08	**143-1.0-R08**	●	●	●

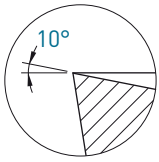
1XX-XX-B

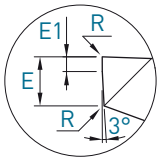


Sur demande pour serrage type B, voir page 3.04
Auf Anfrage für B-Spannsystem, siehe Seite 3.04
On request for B clamping system, see page 3.04

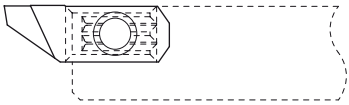
143X10

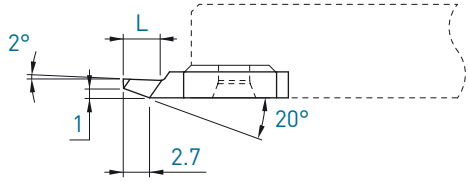
Tournage arrière
Rückwärts drehen
Back turning

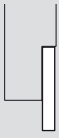




R

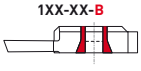




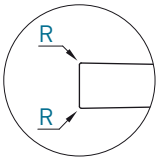


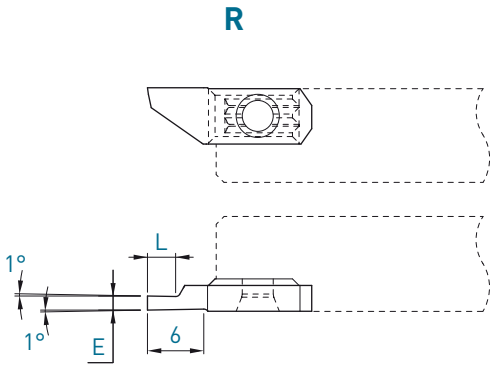
R

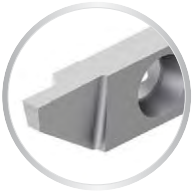
E	E1	L	R	Art. N°	KTA	KST	KN (µk10-20)
0.5	0.15	3	0	**143X10-0.5**	●	●	●
0.5	0	3	0-0.01	**143X10-0.5-R01**	●	●	●
0.5	0	3	0.08	**143X10-0.5-R08**	●	●	●
1.0	0.3	4	0	**143X10-1.0**	●	●	●
1.0	0	4	0-0.01	**143X10-1.0-R01**	●	●	●
1.0	0	4	0.08	**143X10-1.0-R08**	●	●	●

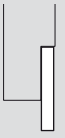


Sur demande pour serrage type B, voir page 3.04
Auf Anfrage für B-Spannsystem, siehe Seite 3.04
On request for B clamping system, see page 3.04



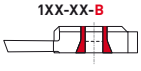






R

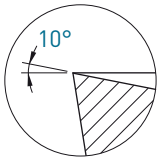
E	L	R	Art. N°	KTA	KST	KN (µk10-20)
0.5	1.5	0	**144-0.5**	●	●	●
0.6	1.8	0	**144-0.6**	●	●	●
0.8	2	0	**144-0.8**	●	●	●
1.0	2.5	0	**144-1.0**	●	●	●
1.0	3	0.08	**144-1.0-R08**	●	●	●
1.5	3	0	**144-1.5**	●	●	●
1.5	3	0.08	**144-1.5-R08**	●	●	●

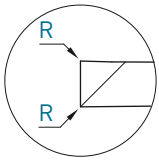


Sur demande pour serrage type B, voir page 3.04
Auf Anfrage für B-Spannsystem, siehe Seite 3.04
On request for B clamping system, see page 3.04

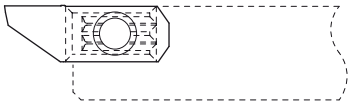
144X10

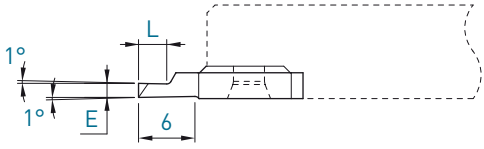
Fonçage-tournage
Einstechen und drehen
Grooving and turning

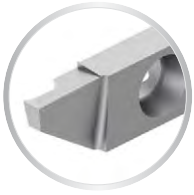




R

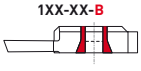




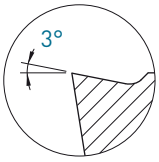


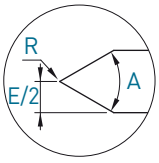
R

E	L	R	Art. N°	KTA	KST	KN (µk10-20)
0.8	2	0	**144X10-0.8**	●	●	●
1.0	2.5	0	**144X10-1.0**	●	●	●
1.0	2.5	0.08	**144X10-1.0-R08**	●	●	●
1.5	3	0	**144X10-1.5**	●	●	●
1.5	3	0.08	**144X10-1.5-R08**	●	●	●

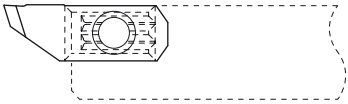


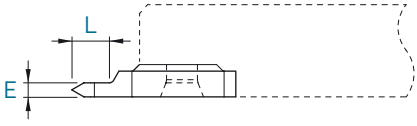
Sur demande pour serrage type B, voir page 3.04
Auf Anfrage für B-Spannsystem, siehe Seite 3.04
On request for B clamping system, see page 3.04

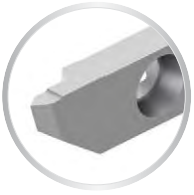




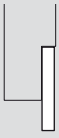
R







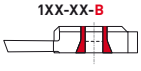
Profil partiel
Teilprofil
Partial profile



R

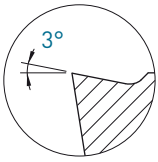
A	E	L	R	Pas mm Steigung mm Pitch mm P	Art. N°	P M N S KTA	P M N S KST	P M N S KN (µk10-20)
60°	1.5	4	0	-	**146X3-60-1.5**	●	●	●
60°	1.5	4	0.03	0.25-0.35	**146X3-60-1.5-R03**	●	●	●
60°	2.0	6	0.06	0.40-0.70	**146X3-60-2.0-R06**	●	●	●
60°	2.0	6	0.12	0.8-1.25	**146X3-60-2.0-R12**	●	●	●

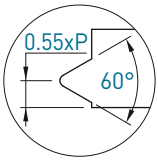
A	E	L	R	Pas TPI Steigung TPI Pitch TPI P	Art. N°	KTA	KST	KN (µk10-20)
55°	1.5	4	0	-	**146X3-55-1.5**	●	●	●
55°	1.5	4	0.06	32-48	**146X3-55-1.5-R06**	●	●	●
55°	2.0	6	0.12	18-26	**146X3-55-2.0-R12**	●	●	●



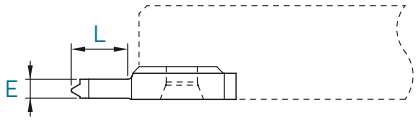
Sur demande pour serrage type B, voir page 3.04
Auf Anfrage für B-Spannsystem, siehe Seite 3.04
On request for B clamping system, see page 3.04

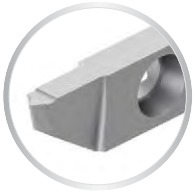
146X3-M



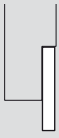


R



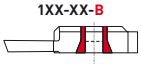


Profil complet métrique
Metrisches Vollprofil
Metric full profile



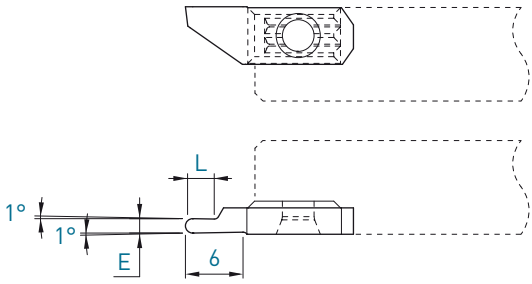
R

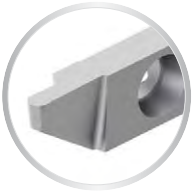
Pas Steigung Pitch P	E	L	Art. N°	P M N S KTA	P M N S KST	P M N S KN (µk10-20)
0.25	1.0	3	**146X3-M-0.25**	●	●	●
0.30	1.0	3	**146X3-M-0.30**	●	●	●
0.35	1.0	3	**146X3-M-0.35**	●	●	●
0.40	1.0	3	**146X3-M-0.40**	●	●	●
0.45	1.0	3	**146X3-M-0.45**	●	●	●
0.50	1.0	3	**146X3-M-0.50**	●	●	●
0.60	1.0	3	**146X3-M-0.60**	●	●	●
0.70	1.0	3	**146X3-M-0.70**	●	●	●
0.75	1.0	3	**146X3-M-0.75**	●	●	●
0.80	1.5	4.5	**146X3-M-0.80**	●	●	●
1.00	1.5	4.5	**146X3-M-1.00**	●	●	●
1.25	1.5	4.5	**146X3-M-1.25**	●	●	●
1.50	2.0	6	**146X3-M-1.50**	●	●	●
1.75	2.0	6	**146X3-M-1.75**	●	●	●

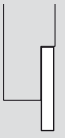


Sur demande pour serrage type B, voir page 3.04
Auf Anfrage für B-Spannsystem, siehe Seite 3.04
On request for B clamping system, see page 3.04

R

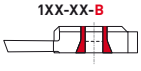






R

R	L	Art. N°	P M N S KTA	P M N S KST	P M N S KN (µk10-20)
0.25	1.5	**147-R0.25**	●	●	●
0.40	2	**147-R0.4**	●	●	●
0.50	2.5	**147-R0.5**	●	●	●
0.60	2.5	**147-R0.6**	●	●	●
0.75	3	**147-R0.75**	●	●	●
0.80	3	**147-R0.8**	●	●	●
1.0	4	**147-R1.0**	●	●	●

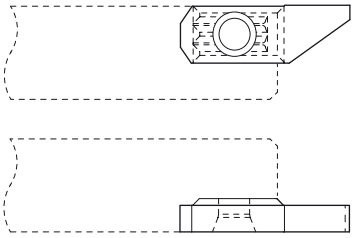


Sur demande pour serrage type B, voir page 3.04
Auf Anfrage für B-Spannsystem, siehe Seite 3.04
On request for B clamping system, see page 3.04

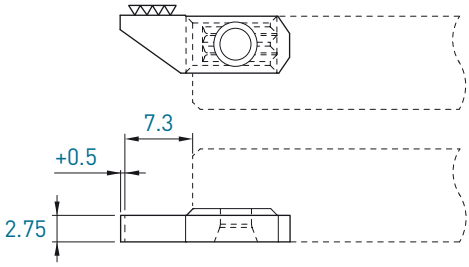
131-EP / 141-EP

Plaquettes ébauches
WSP-Rohlinge
Blank inserts

L



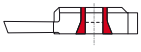
R



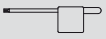
Face de coupe polie
Polierte Schnittfläche
Polished cutting face

L				R			
Art. N°	KTA	KST	KN (µK10-20)	Art. N°	KTA	KST	KN (µK10-20)
131-EP	●	●	●	141-EP	●	●	●

1XX-XX-B



Sur demande pour serrage type B, voir page 3.04
Auf Anfrage für B-Spannsystem, siehe Seite 3.04
On request for B clamping system, see page 3.04

	Porte-outils Halter Holders	Serrage standard (A) Standard Spannsystem (A) Standard clamping system (A)	Options	Serrage type B Spannsystem Typ B Clamping system type B	Options 
130	130-8 130-10 130-12	**V-M3x7-T8**	**C-T8**	**V-M2.5X7.8-T8**	**C-T8**
	130RC-8 130RC-10 130RC-12	**V-M3x5.5-T8**		-	
140	140-8 140-10 140-12 140-8-H10-DUO 140-10-H10-DUO 140-12-H10-DUO	**V-M3x7-T8**	**C-T8**	**V-M2.5X7.8-T8**	**C-T8**

ONE-Watch

APPLITEC
CUTTING TOOLS

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Porte-outils Halter Holder	130 / 140		> 4.07
Tronçonnage Abstechen Parting off	131SF / 141SF		> 4.10
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Tournage arrière Rückwärts drehen Back turning	143SF		> 4.16
Filetage Gewinde drehen Threading	146SFX3		> 4.19
Plaquettes piqûre avant Fronteinstich WSP Front grooving inserts	148SF		> 4.20
Plaquettes piqûre arrière Rückeinstich WSP Back grooving inserts	149SF		> 4.21
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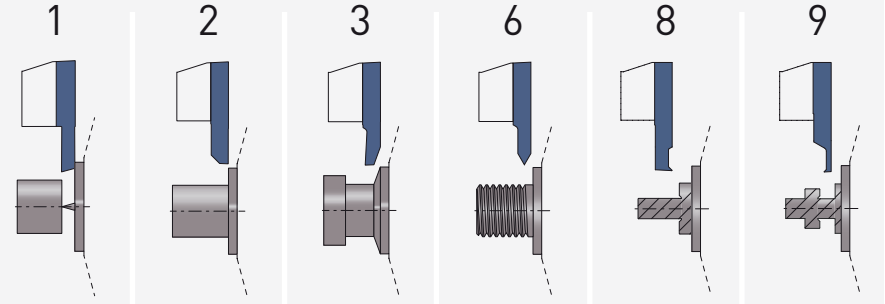
1	4	3	SF	-	3/3	-	45	-	KSTF

Super finish

Dimension
Abmessung
Dimension

Nuance
Sorte
Grade

Géométrie d'usinage
Bearbeitungsgeometrie
Machining geometry

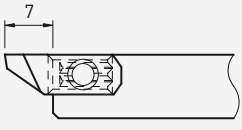


Gamme de produit	définit la compatibilité des plaquettes avec le porte-outils
Produktserie	bestimmt die WSP und Halter Kompatibilität
Product series	define the compatibility of the inserts with the toolholder

L = 3 (chiffre impair / ungerade Zahl / uneven number)

R = 4 (chiffre pair / gerade Zahl / even number)

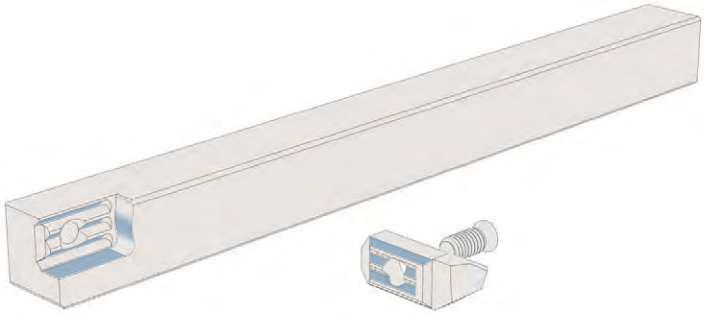
L	R
130	140

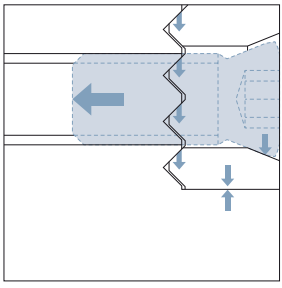


Applitec série 100	Système de serrage à denture décalée avec 1 vis de fixation
Applitec 100 Serie	Spannsystem mit 1 Schraube und verschobener Verzahnung
Applitec 100 series	Shifted teeth clamping system with 1 screw

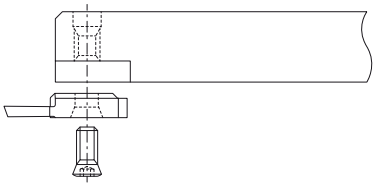
Rigid !

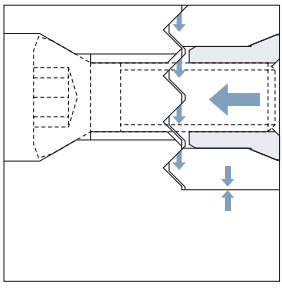
Système de serrage Applitec à denture décalée
Applitec-Spannsystem mit verschobener Verzahnung
Applitec clamping system with shifted teeth





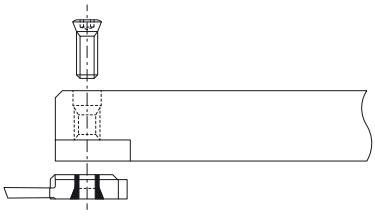
Serrage standard (A)
Standard Spannsystem (A)
Standard clamping system (A)





Serrage type B*
Spannsystem Typ B*
Clamping system type B*

ajouter -B après le numéro d'article
-B nach der Artikelreferenz hinzufügen
add -B after the article number



Changement de la plaquette possible dans la machine, sans démontage du porte-outil
WSP-Austauschmöglichkeit in der Maschine ohne Halterausbau
The insert can be changed in the machine without removing the tool holder

* = sur demande / auf Anfrage / on request

µK10 - µK20

KTC

K10 - K20

µK10 - µK20 + revêtement PVD
µK10 - µK20 + PVD Beschichtung
µK10 - µK20 + PVD coating

TF **F** M E

P ★★★★★
M ★★★☆☆
N ★★★★☆
S ★★★☆☆

- nuance résistante à l'usure, faible coefficient de frottement, recommandée pour des opérations d'ébauche et de finition
- **conseillé pour l'usinage de la matière 20AP + aciers de décolletage**

- verschleissfeste Sorte, geringer Reibwert, für Schruppen und Schlichtbearbeitung empfohlen
- **empfohlen für die Bearbeitung von Material 20AP + Automatenstahl**

- wear resistant grade, low friction ratio, recommended for roughing and finishing
- **recommended for suitable for machining of 20AP material + Free-cutting steel**

µK10 - µK20

KTC-RE

K10 - K20

µK10 - µK20 + revêtement PVD
µK10 - µK20 + PVD Beschichtung
µK10 - µK20 + PVD coating

TF F M E

P ★★★★★
M ★★★☆☆
N ★★★★☆
S ★★★☆☆

- nuance identique à KTC avec dépouilles rectifiées après revêtement pour des opérations de finition
- **conseillé pour l'usinage de la matière 20AP + aciers de décolletage**

- gleiche Sorte wie KTC nach der Beschichtung geschliffener Freiwinkel, für Schlichtbearbeitung empfohlen
- **empfohlen für die Bearbeitung von Material 20AP + Automatenstahl**

- same grade as KTC, after coating grounded clearance, recommended for finishing
- **recommended for suitable for machining of 20AP material + Free-cutting steel**

µK10 - µK20

KTAF

K10 - K20

µK10 - µK20 + revêtement PVD
µK10 - µK20 + PVD Beschichtung
µK10 - µK20 + PVD coating

TF **F** M E

P ★★★★★
M ★★★★★
N ★★★★☆
S ★★★★☆

- nuance résistante à l'usure, recommandée pour des opérations d'ébauche et de finition
- **conseillé pour l'usinage des matières Finemac et inox 4c27a**

- verschleissfeste Sorte, für Schruppen und Schlichtbearbeitung empfohlen
- **empfohlen für die Bearbeitung von Finemac und Inox 4c27a rostfreiem Stahl**

- wear resistant grade, recommended for roughing and finishing
- **recommended for suitable for machining of Finemac and 4c27a stainless steel**

µK10 - µK20

KTAF-RE

K10 - K20

µK10 - µK20 + revêtement PVD
µK10 - µK20 + PVD Beschichtung
µK10 - µK20 + PVD coating

TF F M E

P ★★★★★
M ★★★★★
N ★★★★☆
S ★★★★☆

- nuance identique à KTAF avec dépouilles rectifiées après revêtement pour des opérations de finition
- **recommandé pour les matières Finemac et inox 4c27a**

- gleiche Sorte wie KTAF nach der Beschichtung geschliffener Freiwinkel, für Schlichtbearbeitung empfohlen
- **empfohlen für die Bearbeitung von Finemac und Inox 4c27a rostfreiem Stahl**

- same grade as KTAF, with clearance angles rectify after coating, recommended for finishing
- **recommended for suitable for machining of Finemac and 4c27a stainless steel**

µK10 - µK20

KSTF

K10 - K20

µK10 - µK20 + revêtement PVD
µK10 - µK20 + PVD Beschichtung
µK10 - µK20 + PVD coating

TF **F** M E

P ★★★★★
M ★★★★★
N ★★★★☆
S ★★★★★

- nuance très résistante à l'usure et à la température
- 1er choix pour les aciers > 50 HRC, les aciers à base de nickel, chrome-cobalt, inox et titane allié

- verschleißfeste Sorte, beständig gegen hohe Temperaturen
- erste Wahl für Stähle > 50 HRC, Nickelbasislegierungen, Chrom-Kobalt, rostfreien Stahl und legiertes Titan

- wear-resistant grade, highly resistant to temperature
- first choice for steels > 50 HRC, nickel-based alloys, chrome-cobalt, stainless steel, and alloyed titanium

µK10 - µK20

KN

K10 - K20

Non revêtu
Unbeschichtet
Uncoated

P ★☆☆☆☆
M ★☆☆☆☆
N ★★★☆☆
S ★★★☆☆

- nuance de base non revêtue micro-grain, alliant une très bonne résistance à l'usure et une bonne ténacité
- recommandé pour l'usinage des matières ne nécessitant aucun revêtement, par exemple le titane pur

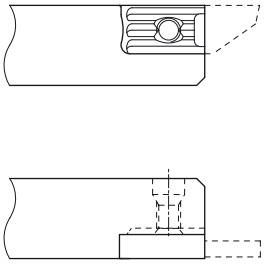
- verschleißfeste Feinkornsorte, unbeschichtet, mit hoher Zähigkeit und guter Widerstandsfähigkeit
- empfohlen für die Bearbeitung von Werkstoffen, die keine Beschichtung erfordern, zum Beispiel reines Titan

- wear-resistant micro-grain grade, uncoated, with high toughness and good resistance
- recommended for machining materials that do not require coating, such as pure titanium

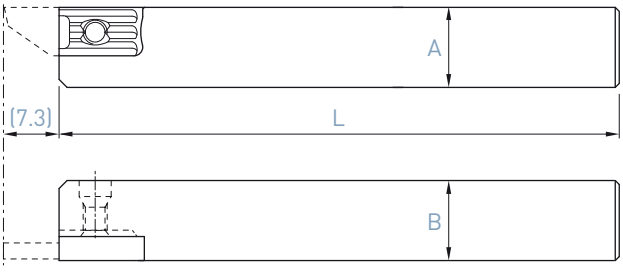
Porte-outils
Halter
Holders

130 / 140

L

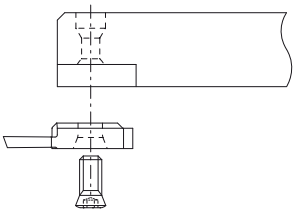


R

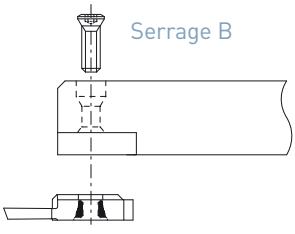


A x B	L	Serrage Spannsystem Clamping	L Art. N°	R Art. N°
8 x 8	115	A+B	**130-8**	**140-8**
10 x 10	115	A+B	**130-10**	**140-10**
12 x 12	115	A+B	**130-12**	**140-12**

Serrage A



Serrage B



Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

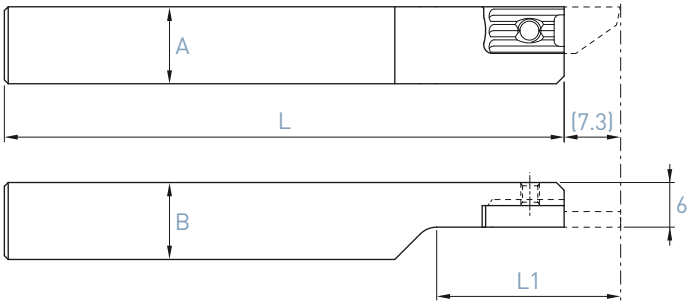
130RC

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

Porte-outils
Halter
Holders

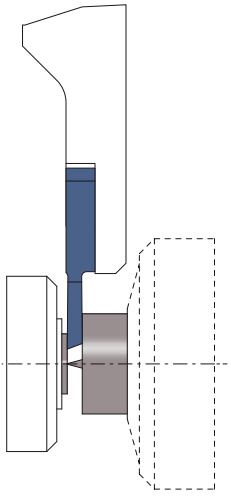
Utiliser des plaquettes type 131R
WSP Typ 131R verwenden
Use inserts type 131R

Voir pages 4.10 - 4.11
Siehe Seiten 4.10 - 4.11
See pages 4.10 - 4.11



L (R)
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

AxB	L	L1	Serrage Spannsystem Clamping	Art. N°
8 x 8	115	24	A	**130RC-8**
10 x 10	115	24	A	**130RC-10**
12 x 12	115	30	A	**130RC-12**

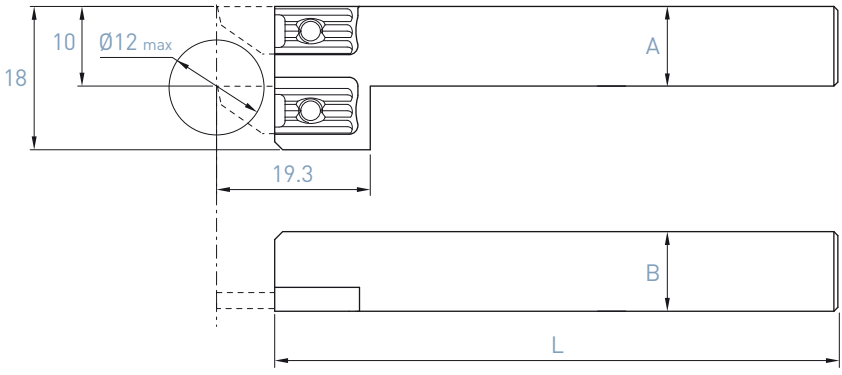


Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

Porte-outils
Halter
Holders

140-DUO

R



R

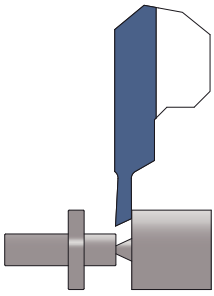
A x B	L	Serrage Spannsystem Clamping	Art. N°
8 x 8	115	A+B	**140-8-H10-DUO**
10 x 10	115	A+B	**140-10-H10-DUO**
12 x 12	115	A+B	**140-12-H10-DUO**

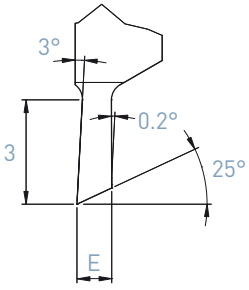
Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

131RSF

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

Tronçonnage
Abstechen
Parting off





L (R)

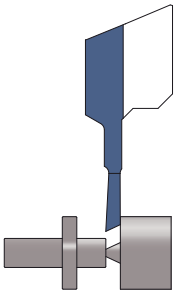
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

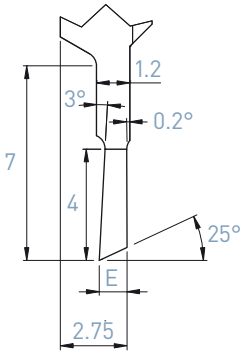
E	Art. N°	KTAF	KSTF	KN (µk10-20)
		P M N S	P M N S	P M N S
1.0	131RSF-1.0-25	●	●	●

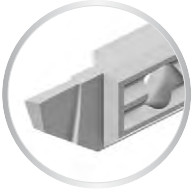
Tronçonnage
Abstechen
Parting off

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

131RDSF







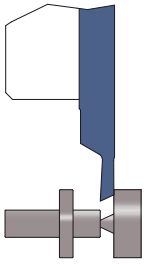
L (R)

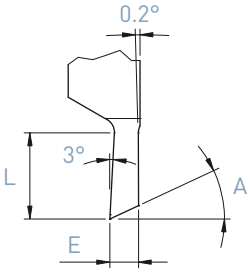
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

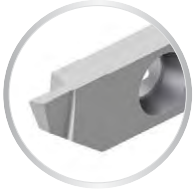
E	Art. N°	P M N S KTAF	P M N S KN (µk10-20)
1.0	**131RDSF-1.0-25**	●	●

141SF

Tronçonnage
Abstechen
Parting off

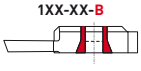






R

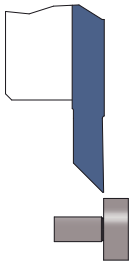
A	E	L	Art. N°	KTC	KTC-RE	KTAF	KTAF-RE	KSTF	KN (µk10-20)
	0.5	2	**141SF-0.5-25**	●	●	●	●	●	●
25°	0.8	3	**141SF-0.8-25**	●	●	●	●	●	●
	1.0	3	**141SF-1.0-25**	●	●	●	●	●	●
22°	1.2	5	**141SF-1.2-22**	●	●	●	●	●	●

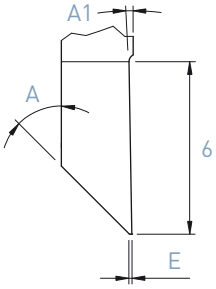


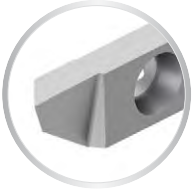
Sur demande pour serrage type B, voir page 4.04
Auf Anfrage für B-Spannsystem, siehe Seite 4.04
On request for B clamping system, see page 4.04

Tournage avant
Vorwärts drehen
Front turning

142SF

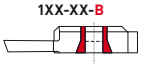






R

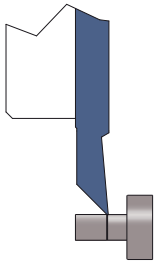
E	A	A1	Art. N°	KTC	KTC-RE	KTAF	KTAF-RE	KSTF	KN (µk10-20)
				P M N S	P	P M N S	P M N S	P M N S	P M N S
0.03	45°	3°	**142SF-3/3-45**	●	●	●	●	●	●
0.05	45°	3°	**142SF-5/5-45**	●	●	●	●	●	●
0.08	45°	1°	**142SF-8/8-45**	●	●	●	●	●	●

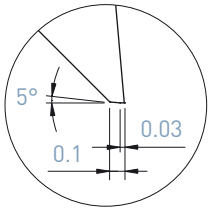


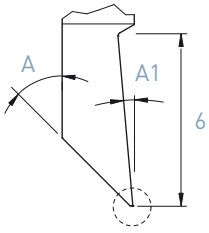
Sur demande pour serrage type B, voir page 4.04
Auf Anfrage für B-Spannsystem, siehe Seite 4.04
On request for B clamping system, see page 4.04

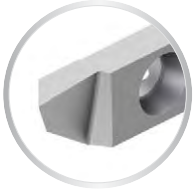
142SF-10_3

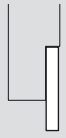
Tournage avant
Vorwärts drehen
Front turning







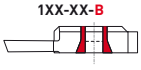




R

A	A1	Art. N°	KTC	KTC-RE	KTAF	KTAF-RE	KSTF	KN (µk10-20)
			P	P	P M N S	P M N S	P M N S	P M N S
45°	5°	**142SF-10/3**	●	●	●	●	●	●

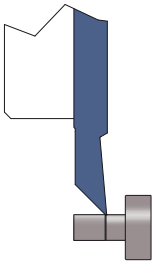
1XX-XX-B

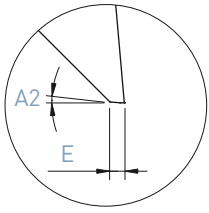


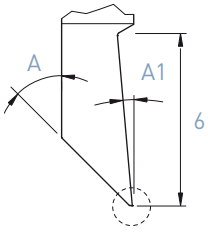
Sur demande pour serrage type B, voir page 4.04
Auf Anfrage für B-Spannsystem, siehe Seite 4.04
On request for B clamping system, see page 4.04

Tournage avant
Vorwärts drehen
Front turning

142SF-_0



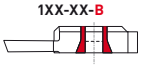




R

E	A	A1	A2	Art. N°	KTAF-RE	KSTF	KN (µk10-20)
0.1	45°	5°	5°	**142SF-10/0-5-45**	●	●	●
0.15	30°	3°	2°	**142SF-15/0-2-30**	●	●	●

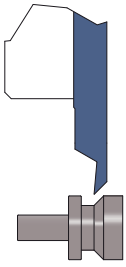
1XX-XX-B

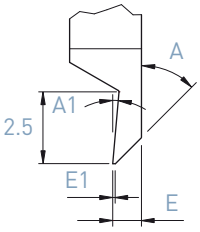


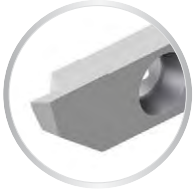
Sur demande pour serrage type B, voir page 4.04
Auf Anfrage für B-Spannsystem, siehe Seite 4.04
On request for B clamping system, see page 4.04

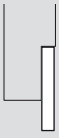
143SF

Tournage arrière
Rückwärts drehen
Back turning



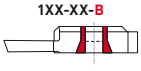






R

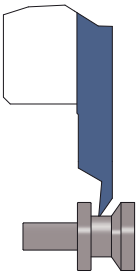
E1	E	A	A1	Art. N°	KTC	KTC-RE	KTAF	KTAF-RE	KSTF	KN (µk10-20)
					P	P	P M N S	P M N S	P M N S	P M N S
0.03	1.0	45°	5°	**143SF-3/3-45-1.0**	●	●	●	●	●	●
0.03	1.2	45°	5°	**143SF-3/3-45-1.2**	●	●	●	●	●	●
0.10	1.0	45°	5°	**143SF-10/10-45-1.0**	●	●	●	●	●	●
0.05	0.8	30°	3°	**143SF-5/5-30-0.8**				●		

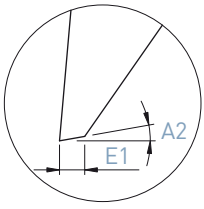


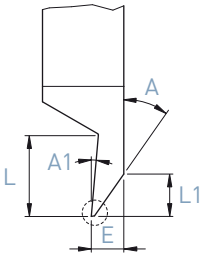
Sur demande pour serrage type B, voir page 4.04
Auf Anfrage für B-Spannsystem, siehe Seite 4.04
On request for B clamping system, see page 4.04

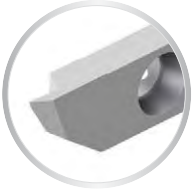
Tournage arrière
Rückwärts drehen
Back turning

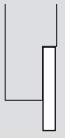
143SF-_0





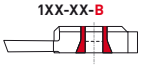






R

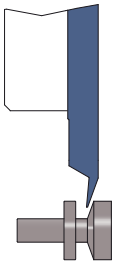
E1	E	L1	L	A	A1	A2	Art. N°	KTAF-RE	KN (µk10-20)
0.08	1.0	1.6	2.5	30°	5°	2°	**143SF-8/0-2-30-1.0**	●	●
0.15	1.2	1.8	4.0	30°	3°	2°	**143SF-15/0-2-30-1.2**	●	●
0.10	1.0	1.3	2.5	35°	5°	10°	**143SF-10/0-10-35-1.0**	●	●

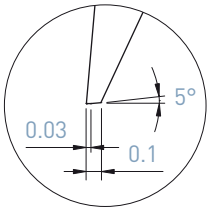


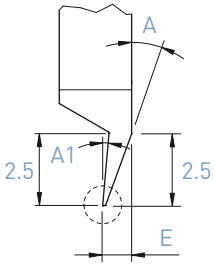
Sur demande pour serrage type B, voir page 4.04
Auf Anfrage für B-Spannsystem, siehe Seite 4.04
On request for B clamping system, see page 4.04

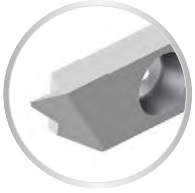
143SF-10_3

Tournage arrière
Rückwärts drehen
Back turning





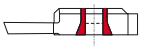




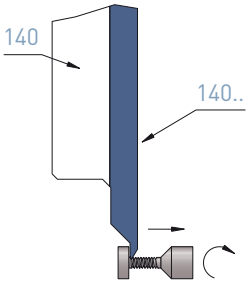
R

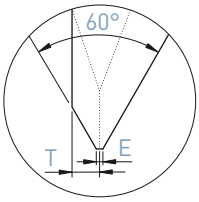
E	A	A1	Art. N°	KTC	KTC-RE	KTAF	KTAF-RE	KN (µk10-20)
				P M N S	P M N S	P M N S	P M N S	P M N S
1.0	20°	5°	**143SF-10/3**		●	●	●	●

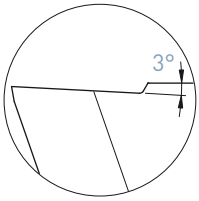
1XX-XX-B



Sur demande pour serrage type B, voir page 4.04
Auf Anfrage für B-Spannsystem, siehe Seite 4.04
On request for B clamping system, see page 4.04



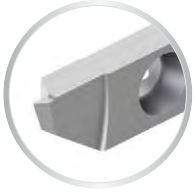




Filetage à droite
sens rotation machine M3

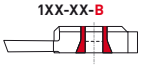
Rechtgewinde Drehrichtung
der Maschine M3

Right-hand thread rotating
machinery M3



R

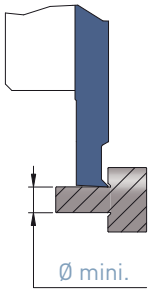
Filetage Gewinde drehen Threading	Pas Steigung Pitch P	T	E 0/-0.01	Art. N°	P M N S KTAF	P M N S KN (µk10-20)
S0.50	0.125	0.07	0.025	**146SFX3-A60-S0.50-AR**	●	●
S0.60	0.150	0.09	0.030	**146SFX3-A60-S0.60-AR**	●	●
S0.70	0.175	0.10	0.035	**146SFX3-A60-S0.70-AR**	●	●
S0.80	0.200	0.12	0.040	**146SFX3-A60-S0.80-AR**	●	●
S0.90	0.225	0.13	0.045	**146SFX3-A60-S0.90-AR**	●	●
S1.00	0.250	0.15	0.050	**146SFX3-A60-S1.00-AR**	●	●

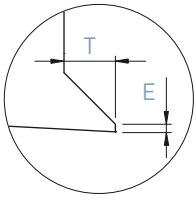


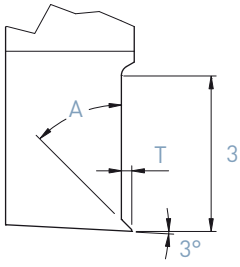
Sur demande pour serrage type B, voir page 4.04
Auf Anfrage für B-Spannsystem, siehe Seite 4.04
On request for B clamping system, see page 4.04

148SF

Plaquettes piqûre avant
Fronteinstich WSP
Front grooving inserts

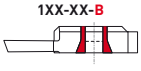






R

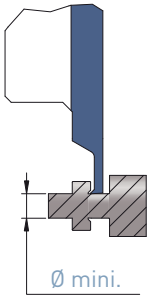
E	A	T	Ø mini.	Art. N°	KTC	KTC-RE	KTAF	KTAF-RE	KN (µk10-20)
					P M N S	P	P M N S	P M N S	P M N S
0.03	46°	0.2	0.3	**148SF-E03-A46-L20**	●	●	●	●	●
0.05	46°	0.3	0.4	**148SF-E05-A46-L30**	●	●	●	●	●
0.08	46°	0.5	0.5	**148SF-E08-A46-L50**	●	●	●	●	●

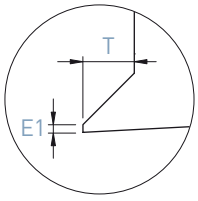


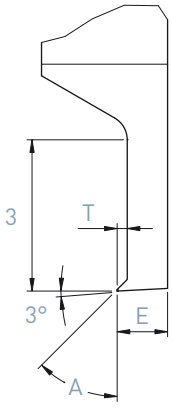
Sur demande pour serrage type B, voir page 4.04
Auf Anfrage für B-Spannsystem, siehe Seite 4.04
On request for B clamping system, see page 4.04

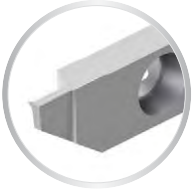
Plaquettes piqûre arrière
Rückeinstich WSP
Back grooving inserts

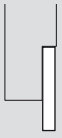
149SF





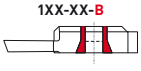






R

E1	A	T	E	Ø mini.	Art. N°	KTC	KTC-RE	KTAF	KTAF-RE	KN (µk10-20)
						P	P	P M N S	P M N S	P M N S
0.03	46°	0.2	1.0	0.3	**149SF-E03-A46-L20-B100**	●	●	●	●	●
0.05	46°	0.3	1.0	0.4	**149SF-E05-A46-L30-B100**	●	●	●	●	●
0.08	46°	0.5	1.2	0.5	**149SF-E08-A46-L50-B120**	●	●	●	●	●

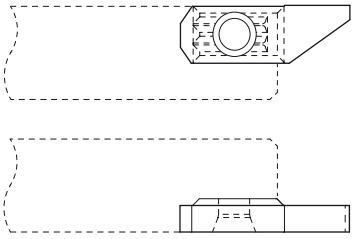


Sur demande pour serrage type B, voir page 4.04
Auf Anfrage für B-Spannsystem, siehe Seite 4.04
On request for B clamping system, see page 4.04

131-ESF / 141-ESF

Plaquettes ébauches
WSP-Rohlinge
Blank inserts

L



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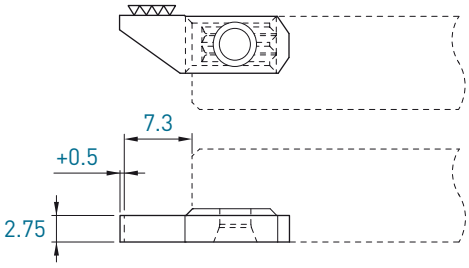
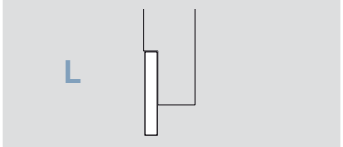
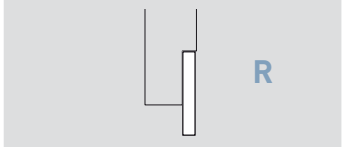


Face de coupe polie
Polierte Schnittfläche
Polished cutting face

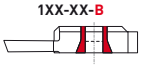


Art. N°	KTC	KTAF	KSTF	KCR-TF	KN (µk10-20)
	P M N S	P M N S	P M N S	N S	P M N S
131-ESF	●	●	●	●	●

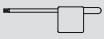


Art. N°	KTC	KTAF	KSTF	KCR-TF	KN (µk10-20)
	P M N S	P M N S	P M N S	N S	P M N S
141-ESF	●	●	●	●	●

1XX-XX-B



Sur demande pour serrage type B, voir page 4.04
Auf Anfrage für B-Spannsystem, siehe Seite 4.04
On request for B clamping system, see page 4.04

	Porte-outils Halter Holders	Serrage standard (A) Standard Spannsystem (A) Standard clamping system (A)	Options	Serrage type B Spannsystem Typ B Clamping system type B	Options 
130	130-8 130-10 130-12	**V-M3x7-T8**	**C-T8**	**V-M2.5X7.8-T8**	**C-T8**
	130RC-8 130RC-10 130RC-12	**V-M3x5.5-T8**		-	
140	140-8 140-10 140-12 140-8-H10-DUO 140-10-H10-DUO 140-12-H10-DUO	**V-M3x7-T8**	**C-T8**	**V-M2.5X7.8-T8**	**C-T8**

PRO-Line

APPLITEC
CUTTING TOOLS

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Kodifizierung
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Sorten
Grades > 5.09

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Empfohlene Schnittwerte
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SERIES 630 / 640

Tournage et gorge

Drehen und Einstechen

Turning and grooving

Porte-outils Halter Holders		**630 / 640**	> **5.12**
Tournage avant Vorwärts drehen Front turning		**632 / 642**	> **5.14**
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Chanfreinage Anfasen Chamfering		**635 / 645**	> **5.30**
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SERIES 650 / 660

Tronçonnage

Abstechen

Parting off

Porte-outils Halter Holders		**650 / 660**	> **5.37**
Tronçonnage Abstechen Parting off		**651 / 661**	> **5.40**
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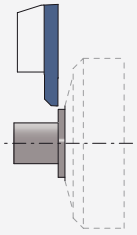
Plaquettes ébauches WSP-Rohlinge Blank inserts		**651-EP / 661-EP**	> **5.50**

Pièces de rechange et accessoires
Ersatzteile und Zubehöre
Spare parts and accessories > **5.51**

642



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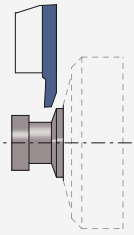

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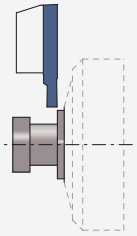

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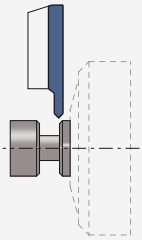

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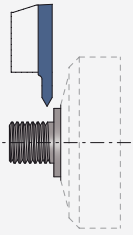

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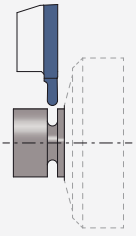

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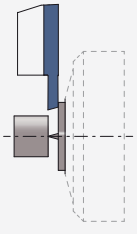
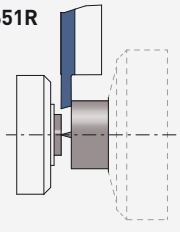


651R



6	4	4	X	–	2.0	–	R15	–	TiAlN

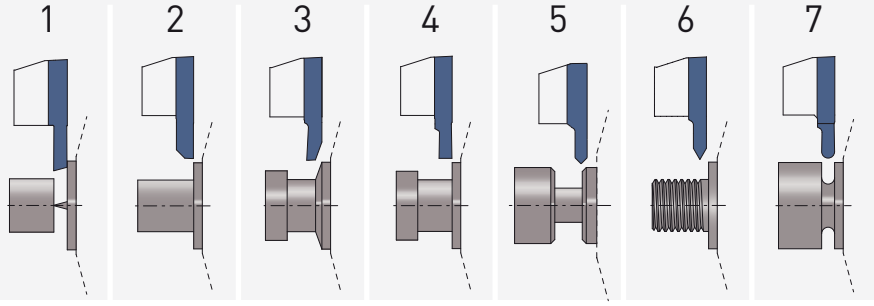
Dimension
Abmessung
Dimension

Rayon
Radius
Radius

Nuance
Sorte
Grade

Géométrie de coupe **Schneidgeometrie** **Cutting geometry**	brise-copeaux Spanbrecher chip breaker	particularités Sondereigenschaften special features

Géométrie d'usinage
Bearbeitungsgeometrie
Machining geometry



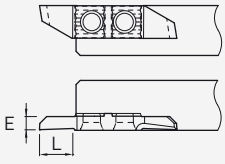
Gamme de produit définit la compatibilité des plaquettes avec le porte-outil
Produktserie bestimmt die WSP und Halter Kompatibilität
Product series shows the inserts and holder compatibility

L = 3, 5 (chiffre impair / ungerade Zahl / uneven number)
R = 4, 6 (chiffre pair / gerade Zahl / even number)

SERIES
Tournage et gorge
Drehen und Einstechen
Turning and grooving

E max = 3 mm
L max = 8 mm

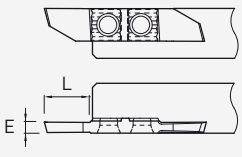
L 630 | R 640



SERIES
Tronçonnage
Abstechen
Parting off

E max = 2.5 mm
L max = 11 mm

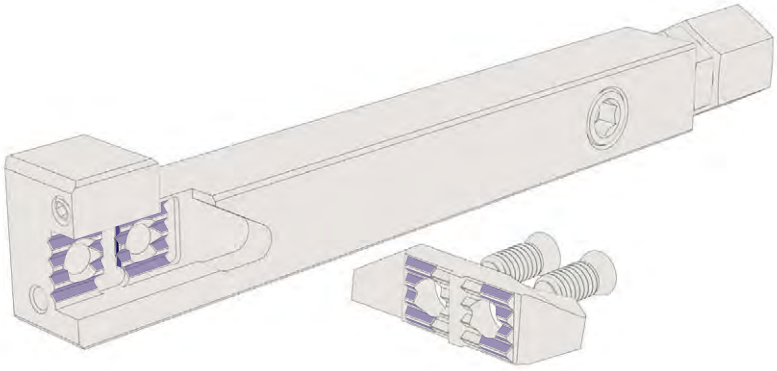
L 650 | R 660



Applitec série 600 Système de serrage à denture avec 2 vis de fixation
Applitec 600 Serie Spannsystem mit Verzahnung und 2 Schrauben
Applitec 600 series Teeth clamping system with 2 screws

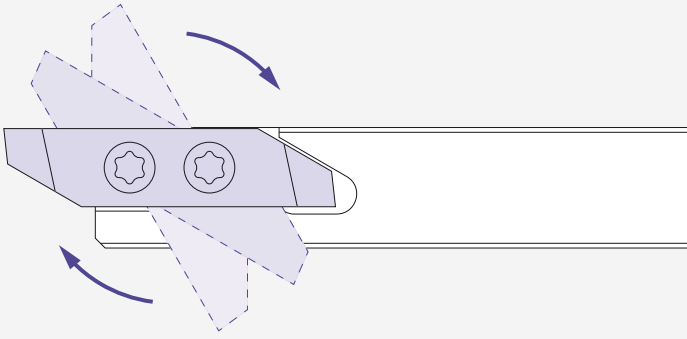
Rigid!

Système de serrage à denture Applitec avec repositionnement sur la nervure centrale.
Applitec-Verzahnungsspannsystem mit Neupositionierung auf der Zentralrippe.
Applitec toothed clamping system with repositioning on the central rib.



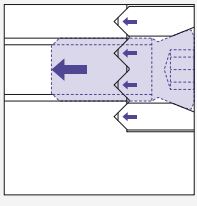
Ultra precision

Grande précision lors du retournement de la plaquette
Hohe Präzision beim Wenden der Platte
High precision when flipping the insert



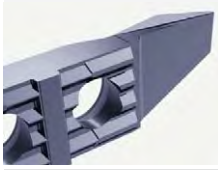
Applitec toothing

Système de serrage en fond de denture
Klemmvorrichtung an der Prothesenbasis
Clamping system at the denture base



µK20

TiAlN



K20

µK20 + revêtement PVD
µK20 + PVD Beschichtung
µK20 + PVD coating

TF — F — **M** — E

P ★★★★★
M ★★★★★
N ★★★★☆
S ★★★★☆

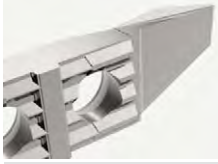
- excellente nuance universelle
- 1er choix pour l'usinage des aciers, aciers inoxydables et alliages de titane
- très bonne résistance à la température

- beste Universalsorte
- für die Bearbeitung von Stahl, rostfreiem Stahl und Titanlegierungen bestens geeignet
- sehr gute Warmfestigkeit

- best universal grade
- first choice for steel, stainless steel and titanium alloys machining
- very good heat resistance

µK20

N



K20

Non revêtu
Unbeschichtet
Uncoated

P ★☆☆☆☆
M ★☆☆☆☆
N ★★★☆☆
S ★★★☆☆

- nuance micro-grain tenace
- supporte les coupes interrompues et autres conditions d'usinage défavorables

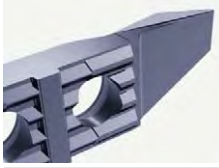
- zähe Feinkornsorte
- für unterbrochene Schnitte und andere ungünstige Bearbeitungsbedingungen

- tough micro-grain grade
- suitable for interrupted cut and other unfavourable machining conditions

Nuances
Sorten
Grades

µK10

HTA



K10

µK10 + revêtement PVD
µK10 + PVD Beschichtung
µK10 + PVD coating

TF — F — **M** — E

P	★★★★★
M	★★★★★
N	★★★★☆
S	★★★★☆

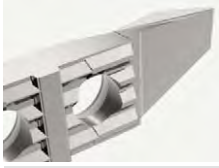
- nuance très résistante à l'usure
- pour l'usinage en finition dans des conditions favorables des aciers, aciers inoxydables et alliages de titane

- sehr verschleissfeste Sorte
- für die Feinbearbeitung von Stahl, rostfreiem Stahl und Titanlegierungen bei guten Bearbeitungsbedingungen

- very wear resistant grade
- for light machining of steel, stainless steel and titanium alloys under favourable machining conditions

µK10

HN



K10

Non revêtu
Unbeschichtet
Uncoated

P	★☆☆☆☆
M	★☆☆☆☆
N	★★★☆☆
S	★★★☆☆

- nuance micro-grain très résistante à l'usure
- recommandé pour l'usinage du titane faiblement allié
- déconseillé en cas de coupe interrompue et autres conditions d'usinage défavorables

- verschleissfeste Feinkornsorte
- für die Bearbeitung von niedrig legiertem Titan empfehlenswert
- für unterbrochene Schnitte und andere ungünstige Bearbeitungsbedingungen nicht geeignet

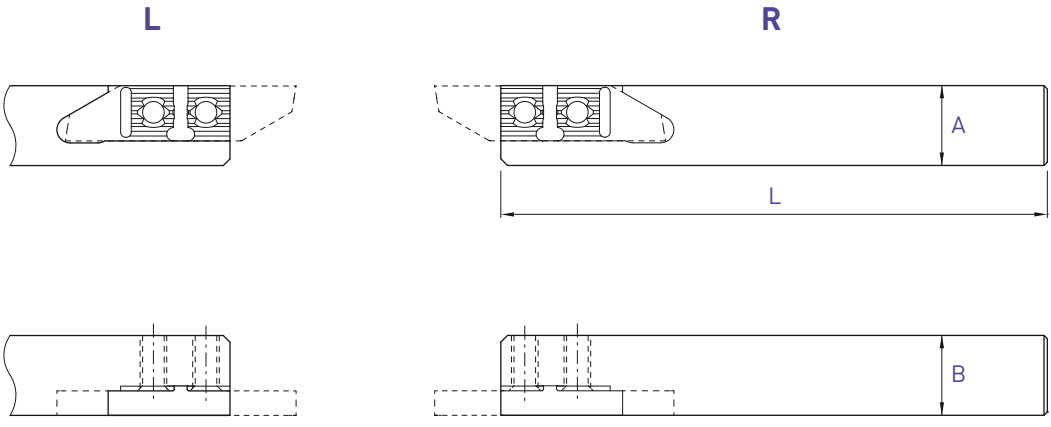
- wear resistant micro-grain grade
- suitable for the machining of low alloyed titanium
- not suitable for interrupted cut and other unfavourable machining conditions

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

Matière Werkstoff Material		Tournage Drehen Turning 630/640			Tronçonnage Abstechen Parting off 650/660		
		VC (m/min)	Prof. de passe Schnitttiefe Depth of cut (mm)	Avance Vorschub Feed (mm/U)	VC (m/min)	Largeur de coupe Abstechbreite Cutting width (mm)	Avance Vorschub Feed (mm/U)
Acier de décolletage Automatenstahl Free-cutting steel	P	120 - 200	0.05 - 1.0 1.0 - 4.0	0.01 - 0.15 0.05 - 0.25	80 - 150	0.50 - 1.50 1.50 - 2.50	0.01 - 0.08 0.03 - 0.15
Acier Stahl Steel < 600 N/mm²	P	80 - 160	0.05 - 1.0 1.0 - 4.0	0.01 - 0.15 0.05 - 0.25	70 - 120	0.50 - 1.50 1.50 - 2.50	0.01 - 0.06 0.03 - 0.12
Acier Stahl Steel < 800 N/mm²	P	60 - 120	0.05 - 1.0 1.0 - 4.0	0.01 - 0.10 0.05 - 0.20	60 - 100	0.50 - 1.50 1.50 - 2.50	0.01 - 0.05 0.03 - 0.10
Acier Stahl Steel > 800 N/mm²	P	50 - 100	0.05 - 1.0 1.0 - 3.0	0.01 - 0.08 0.05 - 0.15	40 - 80	0.50 - 1.50 1.50 - 2.50	0.01 - 0.04 0.03 - 0.08
Acier inoxydable Rostfreistahl Stainless steel	M	60 - 120	0.05 - 1.0 1.0 - 3.0	0.01 - 0.08 0.05 - 0.15	60 - 100	0.50 - 1.50 1.50 - 2.50	0.01 - 0.04 0.03 - 0.08
Aluminium Si <12%	N	200 - 1000	0.05 - 1.0 1.0 - 4.0	0.01 - 0.20 0.05 - 0.40	180 - 400	0.50 - 1.50 1.50 - 2.50	0.01 - 0.10 0.03 - 0.20
Aluminium Si >12%	N	180 - 800	0.05 - 1.0 1.0 - 4.0	0.01 - 0.20 0.05 - 0.40	150 - 300	0.50 - 1.50 1.50 - 2.50	0.01 - 0.10 0.03 - 0.20
Cuivre, laiton, bronze Kupfer, Messing, Bronze Copper, brass, bronze	N	100 - 500	0.05 - 1.0 1.0 - 4.0	0.01 - 0.20 0.05 - 0.35	100 - 300	0.50 - 1.50 1.50 - 2 .50	0.01 - 0.10 0.03 - 0.20
Titane Titan Titanium	S	30 - 70	0.05 - 1.0 1.0 - 4.0	0.01 - 0.08 0.05 - 0.15	30 - 50	0.50 - 1.50 1.50 - 2.50	0.01 - 0.03 0.03 - 0.06

630 / 640

Porte-outils
Halter
Holders

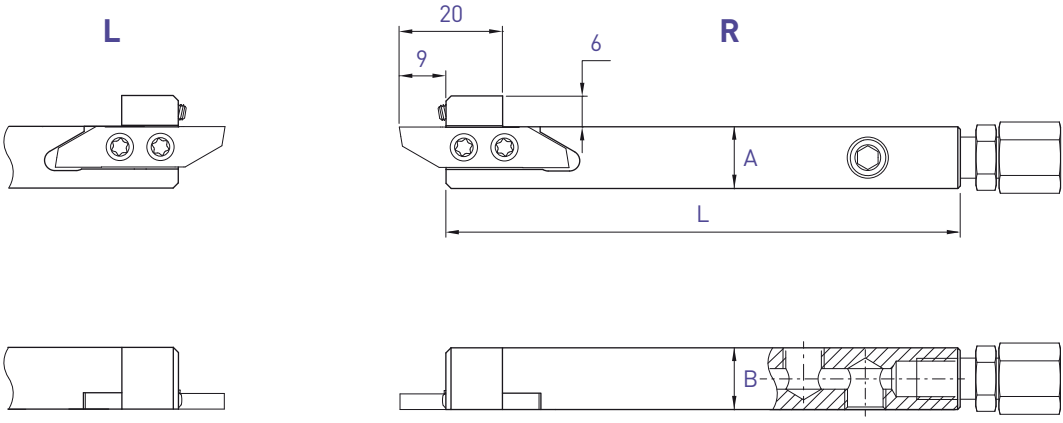


A x B	L	L Art. N°	R Art. N°
8 x 8	115	**630-8**	**640-8**
10 x 10	115	**630-10**	**640-10**
10 x 10	50	**630-10-50**	**640-10-50**
12 x 12	130	**630-12**	**640-12**
12 x 12	90	**630-12-90**	**640-12-90**
12.7 x 12.7	130	**630-12.7**	**640-12.7**
16 x 16	130	**630-16**	**640-16**
16 x 16	75	**630-16-75**	**640-16-75**
20 x 20	120	**630-20**	**640-20**

Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

Porte-outils avec arrosage intégré
Halter mit integrierter Kühlmittelzufuhr
Holders with integrated coolant supply

630-JET / 640-JET

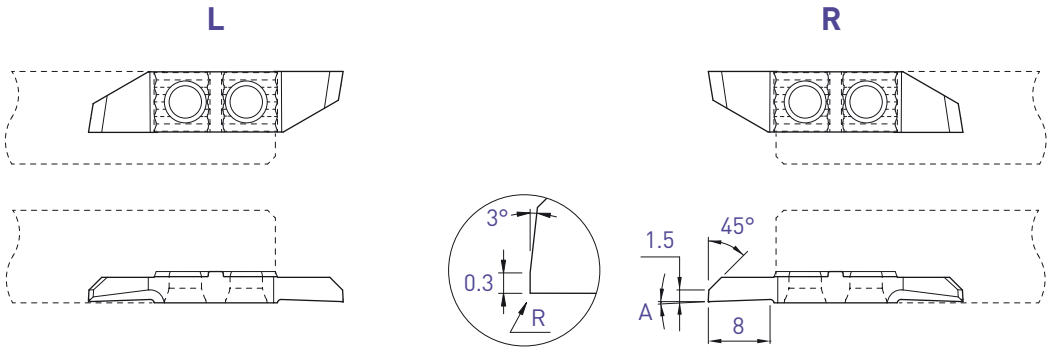


A x B	L	L Art. N°	R Art. N°
10 x 12	100	**630-1012-JET**	**640-1012-JET**
12 x 12	100	**630-12-JET**	**640-12-JET**
12.7 x 12.7	100	**630-12.7-JET**	**640-12.7-JET**
16 x 16	100	**630-16-JET**	**640-16-JET**
20 x 20	100	**630-20-JET**	**640-20-JET**

Chaque support est livré avec vis, raccord droit et buse d'arrosage Ø 1.5 mm. Les clés sont à commander séparément.
Jeder Halter wird mit Spannschraube(n), gerader Kühlmittelanschluss und Kühlmitteldüse Ø 1.5 mm geliefert. Die Schlüssel sind separat zu bestellen.
Screw(s), straight connector and coolant nozzle Ø 1.5 mm are included with each tool holder. The keys must be ordered separately.

632 / 642

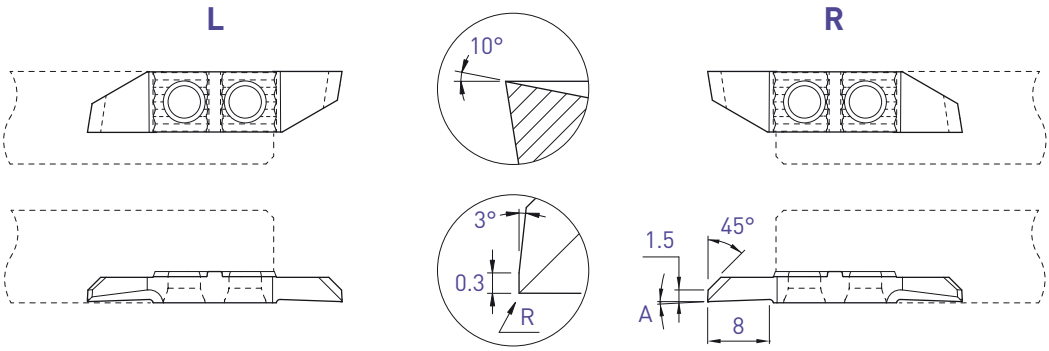
Tournage avant
Vorwärts drehen
Front turning



		L					R				
A	R	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)
0°	0	**632**	●	●			**642**	●	●		
0°	0.08	–					**642-R08**	●	●		
0°	0.15	–					**642-R15**	●	●	●	
2°	0	**632-2°**	●	●			**642-2°**	●	●	●	
2°	0.08	–					**642-2°-R08**	●	●		
2°	0.15	–					**642-2°-R15**	●	●		

Tournage avant
Vorwärts drehen
Front turning

632X / 642X

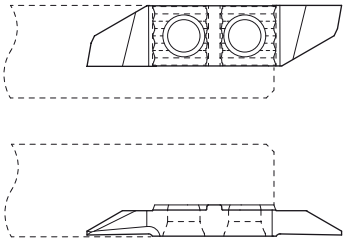


L							R				
A	R	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)
0°	0	632X10	●	●			642X10	●	●		
0°	0.08	–					642X10-R08	●	●		
0°	0.15	–					642X10-R15	●	●		
2°	0	632X10-2°	●	●			642X10-2°	●	●		
2°	0.08	–					642X10-2°-R08	●	●		●
2°	0.15	–					642X10-2°-R15	●	●	●	●

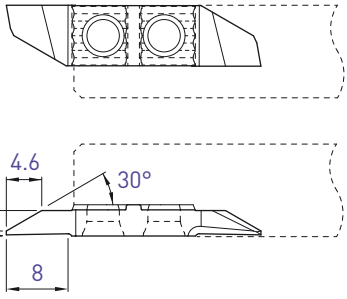
632S / 642S

Tournage multifonction
Mehrweck drehen
Multifunction turning

L



R



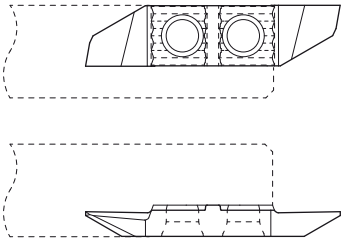
Tournage avant
Vorwärts drehen
Front turning

L					R				
Art. N°	P M N S TiAlN	N (µk20)	P M N S HTA	HN (µk10)	Art. N°	P M N S TiAlN	N (µk20)	P M N S HTA	HN (µk10)
632S05	●	●			642S05	●	●	●	●

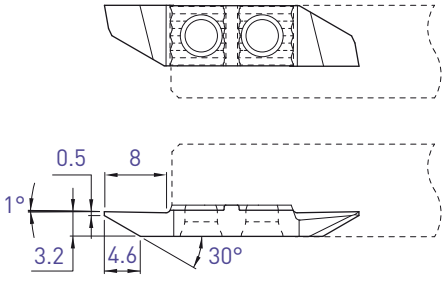
Tournage multifonction
Mehrweck drehen
Multifunction turning

633S / 643S

L



R

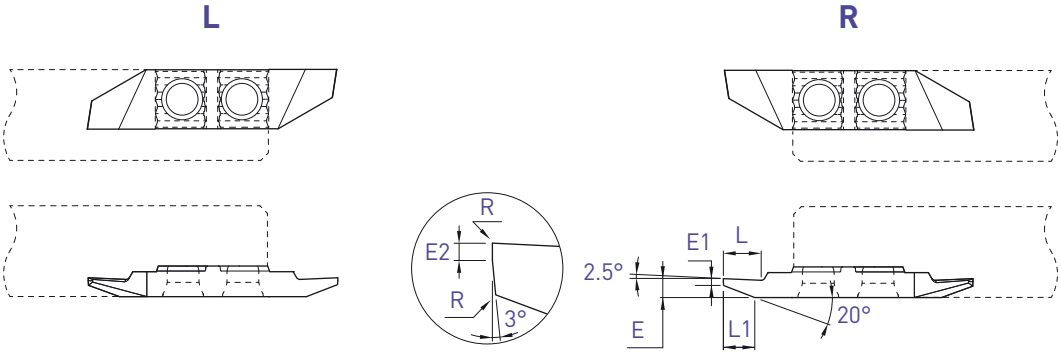


Tournage arrière
Rückwärts drehen
Back turning

L					R				
Art. N°	P M N S TiAlN	N (µk20)	P M N S HTA	N HN (µk10)	Art. N°	P M N S TiAlN	N (µk20)	P M N S HTA	N HN (µk10)
633S05	●	●			643S05	●	●		●

633 / 643

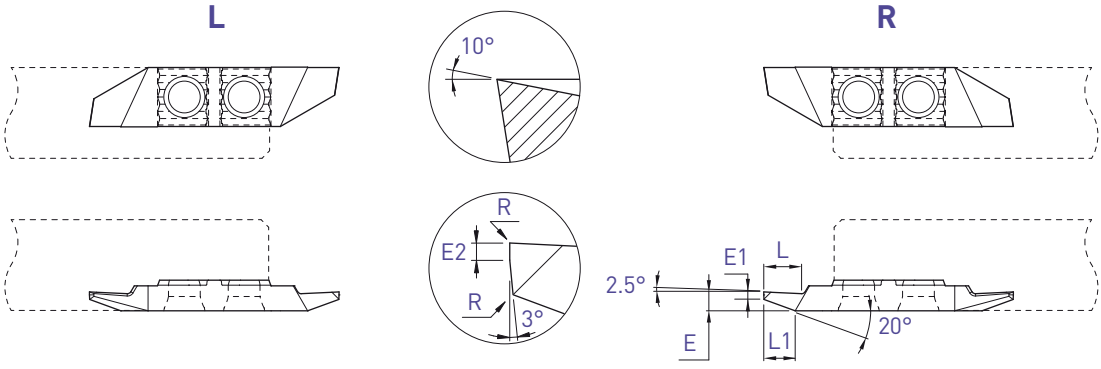
Tournage arrière
Rückwärts drehen
Back turning



L											R				
E1	E2	L	L1	E	R	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)
0.5	0.25	3	2.8	1.5	0	**633-0.5**	●	●			**643-0.5**	●	●		●
0.5	0.25	3	2.8	1.5	0.08	-					**643-0.5-R08**	●	●		
0.8	0.40	4.5	3.3	2.0	0	-					**643-0.8**	●	●		
0.8	0.40	4.5	3.3	2.0	0.08	-					**643-0.8-R08**	●	●		
1.0	0.40	5	4.2	2.5	0	-					**643-1.0**	●	●		
1.0	0.40	5	4.2	2.5	0.08	-					**643-1.0-R08**	●	●		
1.5	0.50	6	4.2	3.0	0	-					**643-1.5**	●	●		
1.5	0.50	6	4.2	3.0	0.08	-					**643-1.5-R08**	●	●		

Tournage arrière
Rückwärts drehen
Back turning

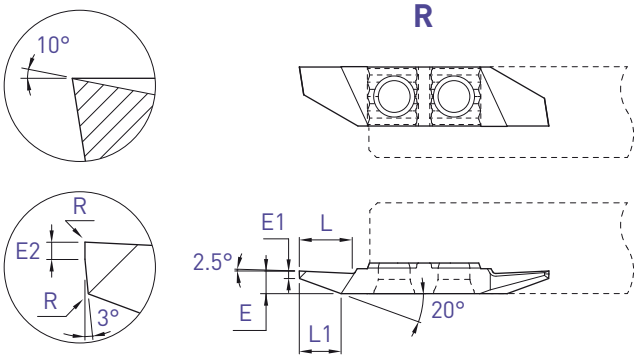
633X / 643X



L											R				
E1	E2	L	L1	E	R	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)
0.5	0.25	3	2.8	1.5	0	**633X10-0.5**	●	●			**643X10-0.5**	●	●	●	●
0.5	0.25	3	2.8	1.5	0.08	-					**643X10-0.5-R08**	●	●		
0.8	0.40	4.5	3.3	2.0	0	-					**643X10-0.8**	●	●		
0.8	0.40	4.5	3.3	2.0	0.08	-					**643X10-0.8-R08**	●	●		
1.0	0.40	5	4.2	2.5	0	-					**643X10-1.0**	●	●		
1.0	0.40	5	4.2	2.5	0.08	-					**643X10-1.0-R08**	●	●		
1.5	0.50	6	4.2	3.0	0	-					**643X10-1.5**	●	●		
1.5	0.50	6	4.2	3.0	0.08	-					**643X10-1.5-R08**	●	●		

643XS

Tournage arrière
Rückwärts drehen
Back turning

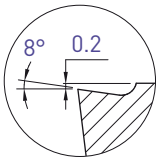


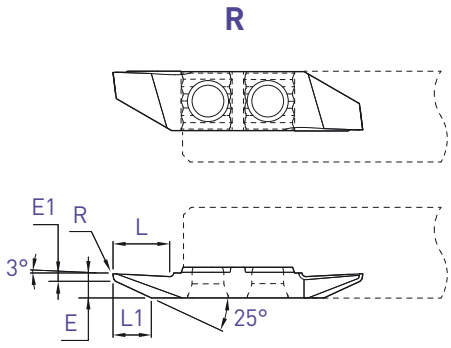
R

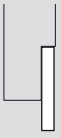
E1	E2	L	L1	E	R	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)
1.0	0.4	7	5.5	3.0	0	**643X10S-1.0**	●	●		
1.0	0.4	7	5.5	3.0	0.08	**643X10S-1.0-R08**	●	●		

Tournage arrière
Rückwärts drehen
Back turning

643VX8



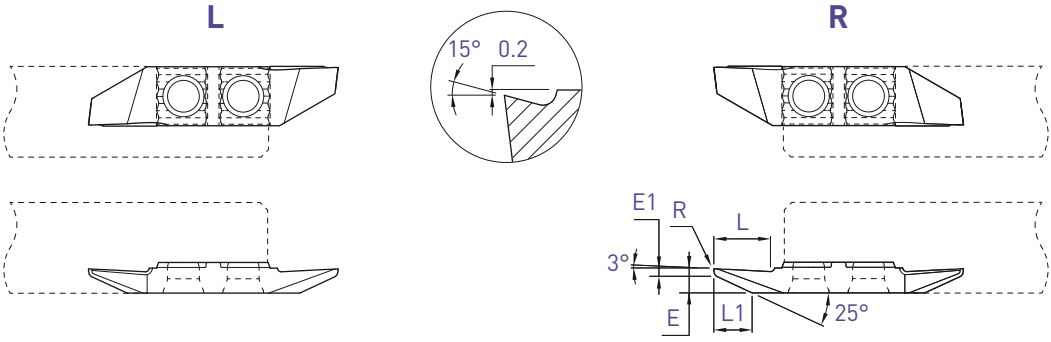




E1	L	L1	E	R	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)
1.0	7.5	5.0	3.2	0	**643VX8**	●	●		
1.0	7.5	5.0	3.2	0.08	**643VX8-R08**	●	●		

633VX15 / 643VX15

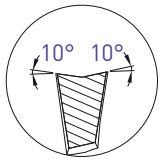
Tournage arrière
Rückwärts drehen
Back turning

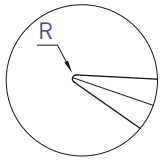


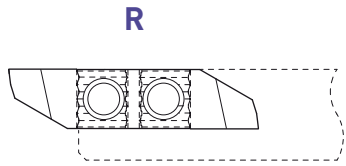
L										R				
E1	L	L1	E	R	Art. N°	P M N S TiAlN	N (µk20)	P M N S HTA	HN (µk10)	Art. N°	P M N S TiAlN	N (µk20)	P M N S HTA	HN (µk10)
0.6	7.5	5.2	3.2	0	**633VX15**	●	●			**643VX15**	●	●		●
0.6	7.5	5.2	3.2	0.08	**-**					**643VX15-R08**	●	●		

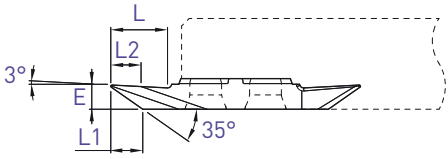
Tournage arrière
Rückwärts drehen
Back turning

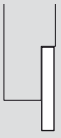
643VUX









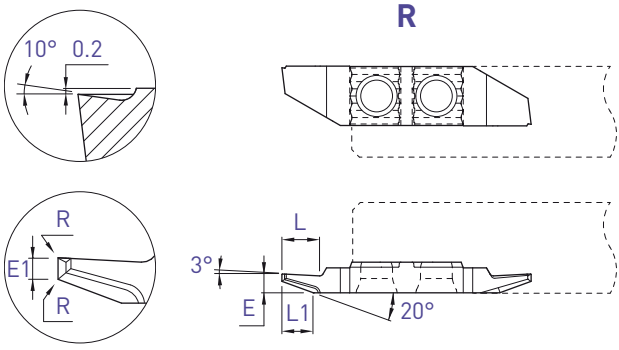


R

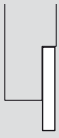
L	L1	L2	E	R	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)
7.5	4.2	4.0	3.2	0.15	**643VUX10-R15**	●	●	●	●
7.5	3.8	3.8	3.2	0.35	**643VUX10-R35**	●	●		

643ZX

Tournage arrière
Rückwärts drehen
Back turning

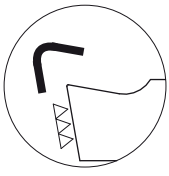


Pour un meilleur contrôle des copeaux
Für eine bessere Spankontrolle
For a better chip control



R

E1	L	L1	E	R	Art. N°	P M N S TiAlN	N N (µK20)
1.0	5	4	2.5	0.01	**643ZX10-1.0**	●	
1.0	5	4	2.5	0.08	**643ZX10-1.0-R08**	●	



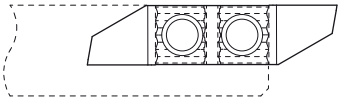
Arête de coupe honée
Gehonte Schneidkante
Honed edge

f min: 0.02 mm/U

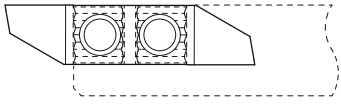
Fonçage-tournage
Einstechen und drehen
Grooving and turning

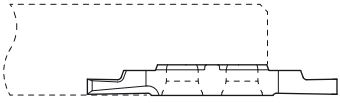
634 / 644

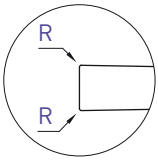
L

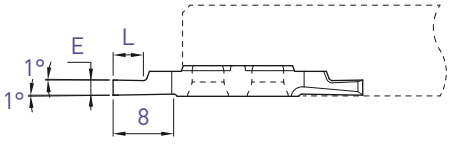


R





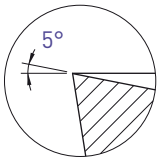


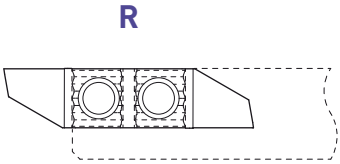


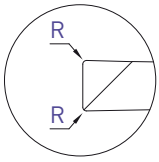
L							R				
E	L	R	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)
0.5	1.5	0	**634-0.5**	●	●			**644-0.5**	●	●		
0.6	1.8	0	-					**644-0.6**	●	●		
0.75	2	0	-					**644-0.75**	●	●		●
0.8	2	0	**634-0.8**	●	●			**644-0.8**	●	●		
0.9	2.5	0	-					**644-0.9**	●	●		
0.95	3	0	-					**644-0.95**	●	●		
1.0	2.5	0	**634-1.0**	●	●			**644-1.0**	●	●		●
1.0	2.5	0.08	-					**644-1.0-R08**	●	●	●	●
1.2	3	0	**634-1.2**	●	●			**644-1.2**	●	●		
1.2	3	0.08	-					**644-1.2-R08**	●	●		●
1.5	3	0	**634-1.5**	●	●			**644-1.5**	●	●	●	●
1.5	3	0.08	-					**644-1.5-R08**	●	●	●	●
1.5	3	0.15	-					**644-1.5-R15**	●	●		
1.8	4	0	-					**644-1.8**	●	●	●	
2.0	4	0	**634-2.0**	●	●			**644-2.0**	●	●		
2.0	4	0.08	-					**644-2.0-R08**	●	●		●
2.0	4	0.15	-					**644-2.0-R15**	●	●		●
2.5	6	0	**634-2.5**	●	●			**644-2.5**	●	●		
2.5	6	0.08	-					**644-2.5-R08**	●	●		
2.5	6	0.15	-					**644-2.5-R15**	●	●		
3	6	0	**634-3.0**	●	●			**644-3.0**	●	●	●	
3	6	0.08	-					**644-3.0-R08**	●	●	●	●
3	6	0.15	-					**644-3.0-R15**	●	●		

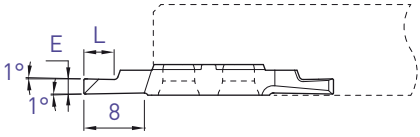
644X5

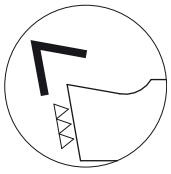
Fonçage-tournage
Einstechen und drehen
Grooving and turning





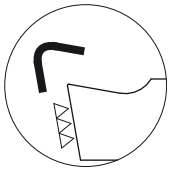






Arête de coupe vive
Scharfe Schneidkante
Sharp edge

E	L	R	Art. N°	TiAlN	N (µK20)	HTA	HN (µK10)
			R				
1.5	3	0.08	**644X5-1.5-R08**	●	●		
2	4	0.08	**644X5-2.0-R08**	●	●		
2	4	0.15	**644X5-2.0-R15**	●	●		
2.5	6	0.08	**644X5-2.5-R08**	●	●		
2.5	6	0.15	**644X5-2.5-R15**	●	●		
3	6	0.08	**644X5-3.0-R08**	●	●		
3	6	0.15	**644X5-3.0-R15**	●	●		



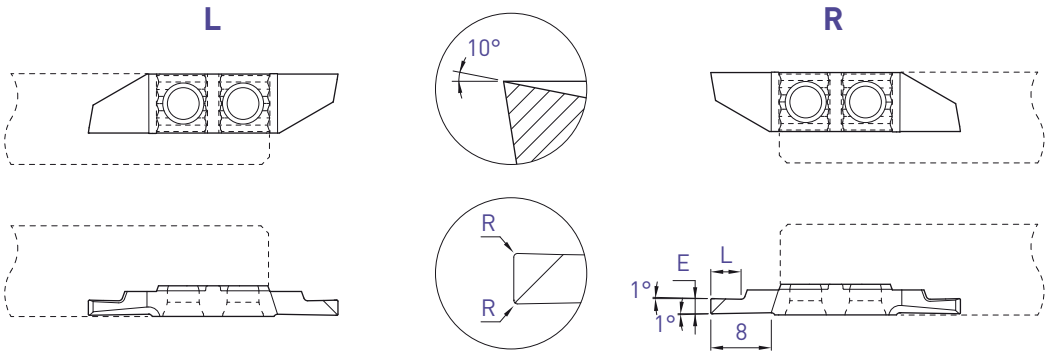
Arête de coupe honée
Gehonte Schneidkante
Honed edge

f min: 0.02 mm/U

1.5	3	0.08	**644X5-1.5-R08-EP**	●	●		
2	4	0.08	**644X5-2.0-R08-EP**	●	●		
2	4	0.15	**644X5-2.0-R15-EP**	●	●		
2.5	6	0.08	**644X5-2.5-R08-EP**	●	●		
2.5	6	0.15	**644X5-2.5-R15-EP**	●	●		
3	6	0.08	**644X5-3.0-R08-EP**	●	●		
3	6	0.15	**644X5-3.0-R15-EP**	●	●		

Fonçage-tournage
Einstechen und drehen
Grooving and turning

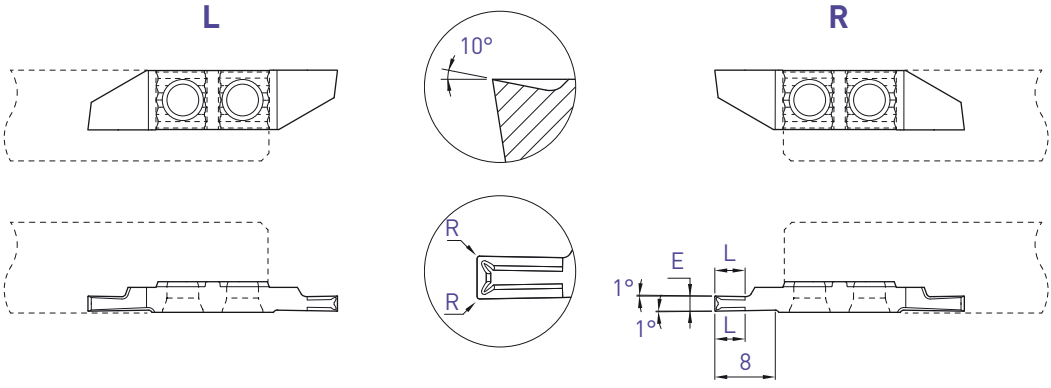
634X10 / 644X10



L							R				
E	L	R	Art. N°	P M N S TiAlN	N (µK20)	P M N S HTA	N HN (µK10)	Art. N°	P M N S TiAlN	N (µK20)	P M N S HTA	N HN (µK10)
0.8	2	0	634X10-0.8	●	●			644X10-0.8	●	●	●	●
1.0	2.5	0	634X10-1.0	●	●			644X10-1.0	●	●		
1.0	2.5	0.08	634X10-1.0-R08	●	●			644X10-1.0-R08	●	●		
1.2	3	0	-					644X10-1.2	●	●		●
1.2	3	0.08	-					644X10-1.2-R08	●	●		
1.5	3	0	634X10-1.5	●	●			644X10-1.5	●	●		●
1.5	3	0.08	634X10-1.5-R08	●	●			644X10-1.5-R08	●	●		●
1.5	3	0.15	634X10-1.5-R15	●	●			644X10-1.5-R15	●	●		
1.8	4	0	-					644X10-1.8	●	●		
2	4	0	634X10-2.0	●	●			644X10-2.0	●	●		
2	4	0.08	634X10-2.0-R08	●	●			644X10-2.0-R08	●	●		
2	4	0.15	634X10-2.0-R15	●	●			644X10-2.0-R15	●	●		
2.5	6	0	634X10-2.5	●	●			644X10-2.5	●	●		
2.5	6	0.08	634X10-2.5-R08	●	●			644X10-2.5-R08	●	●		
2.5	6	0.15	634X10-2.5-R15	●	●			644X10-2.5-R15	●	●		
3	6	0	634X10-3.0	●	●			644X10-3.0	●	●		
3	6	0.08	634X10-3.0-R08	●	●			644X10-3.0-R08	●	●		
3	6	0.15	634X10-3.0-R15	●	●			644X10-3.0-R15	●	●		

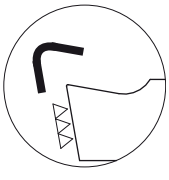
634ZXB / 644ZXB

Fonçage-tournage
Einstechen und drehen
Grooving and turning



Pour un meilleur contrôle des copeaux
Für eine bessere Spankontrolle
For a better chip control

			L			R		
E	L	R	Art. N°	TiAlN	N (µk20)	Art. N°	TiAlN	N (µk20)
1.0	2.5	0.01	**634ZXB10-1.0**	●		**644ZXB10-1.0**	●	
1.5	4	0.01	**634ZXB10-1.5**	●		**644ZXB10-1.5**	●	
1.5	4	0.08	**634ZXB10-1.5-R08**	●		**644ZXB10-1.5-R08**	●	
2.0	4	0.01	**634ZXB10-2.0**	●		**644ZXB10-2.0**	●	
2.0	4	0.08	**634ZXB10-2.0-R08**	●		**644ZXB10-2.0-R08**	●	
2.0	4	0.15	**634ZXB10-2.0-R15**	●		**644ZXB10-2.0-R15**	●	
2.5	5	0.08	**634ZXB10-2.5-R08**	●		**644ZXB10-2.5-R08**	●	
2.5	5	0.15	**634ZXB10-2.5-R15**	●		**644ZXB10-2.5-R15**	●	
3.0	6	0.08	**634ZXB10-3.0-R08**	●		**644ZXB10-3.0-R08**	●	
3.0	6	0.15	**634ZXB10-3.0-R15**	●		**644ZXB10-3.0-R15**	●	
3.0	6	0.35	**634ZXB10-3.0-R35**	●		**644ZXB10-3.0-R35**	●	

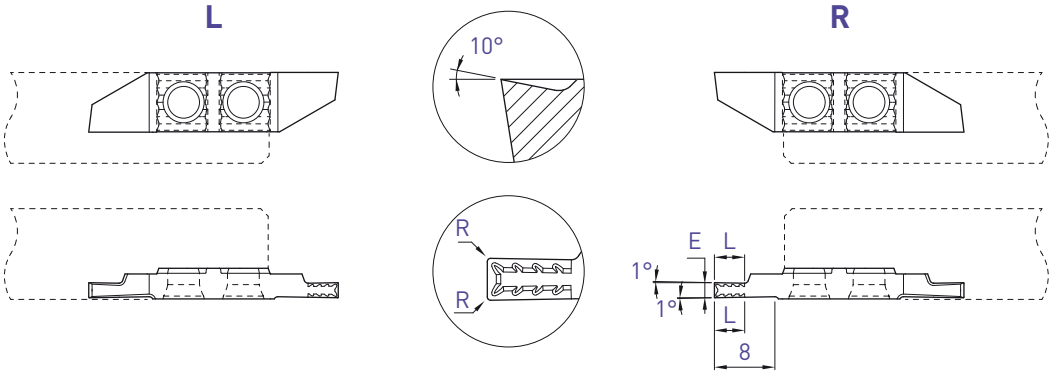


Arête de coupe honée
Gehonte Schneidkante
Honed edge

f min: 0.02 mm/U

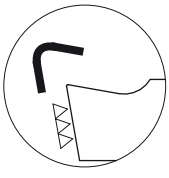
Fonçage-tournage
Einstechen und drehen
Grooving and turning

634ZXT / 644ZXT



Pour un meilleur contrôle des copeaux
Für eine bessere Spankontrolle
For a better chip control

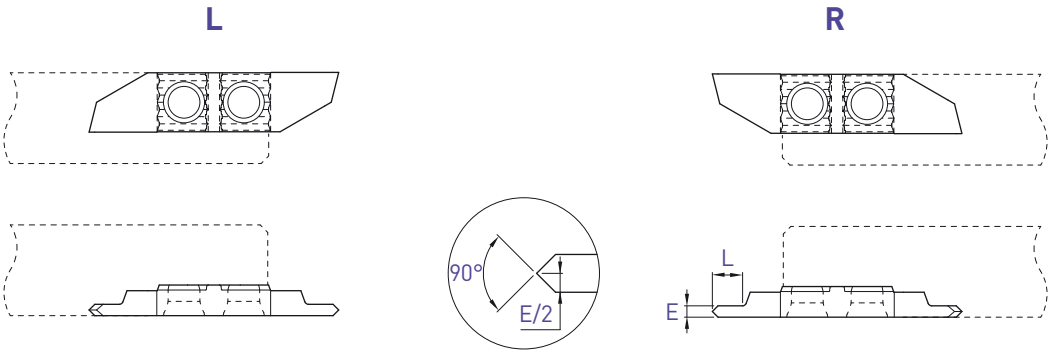
			L			R		
E	L	R	Art. N°	P M N S TiAlN	N N (µk20)	Art. N°	P M N S TiAlN	N N (µk20)
1.0	2.5	0.01	634ZXT10-1.0	●		644ZXT10-1.0	●	
1.5	4	0.01	634ZXT10-1.5	●		644ZXT10-1.5	●	
1.5	4	0.08	634ZXT10-1.5-R08	●		644ZXT10-1.5-R08	●	
2.0	4	0.01	634ZXT10-2.0	●		644ZXT10-2.0	●	
2.0	4	0.08	634ZXT10-2.0-R08	●		644ZXT10-2.0-R08	●	
2.0	4	0.15	634ZXT10-2.0-R15	●		644ZXT10-2.0-R15	●	
2.5	5	0.08	634ZXT10-2.5-R08	●		644ZXT10-2.5-R08	●	
2.5	5	0.15	634ZXT10-2.5-R15	●		644ZXT10-2.5-R15	●	
3.0	6	0.08	634ZXT10-3.0-R08	●		644ZXT10-3.0-R08	●	
3.0	6	0.15	634ZXT10-3.0-R15	●		644ZXT10-3.0-R15	●	
3.0	6	0.35	-			644ZXT10-3.0-R35	●	



Arête de coupe honée
Gehonte Schneidkante
Honed edge

f min: 0.02 mm/U

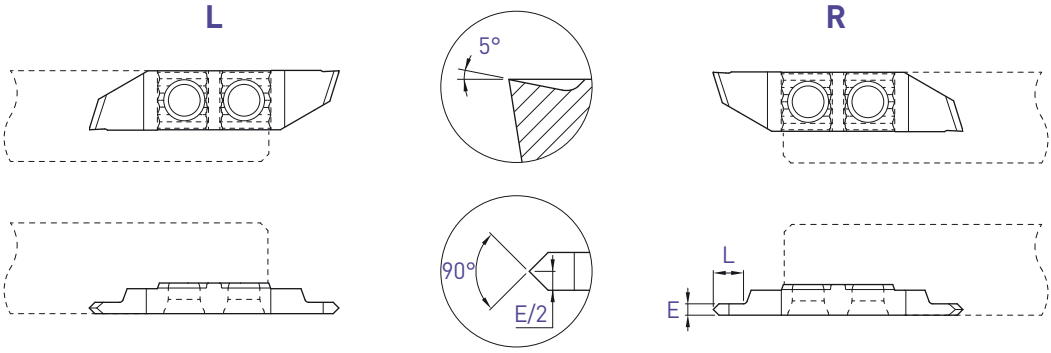
635-90 / 645-90



		L			R		
E	L	Art. N°	TiAlN	N (µk20)	Art. N°	TiAlN	N (µk20)
1.5	4	**635-90-1.5**	●	●	**645-90-1.5**	●	●

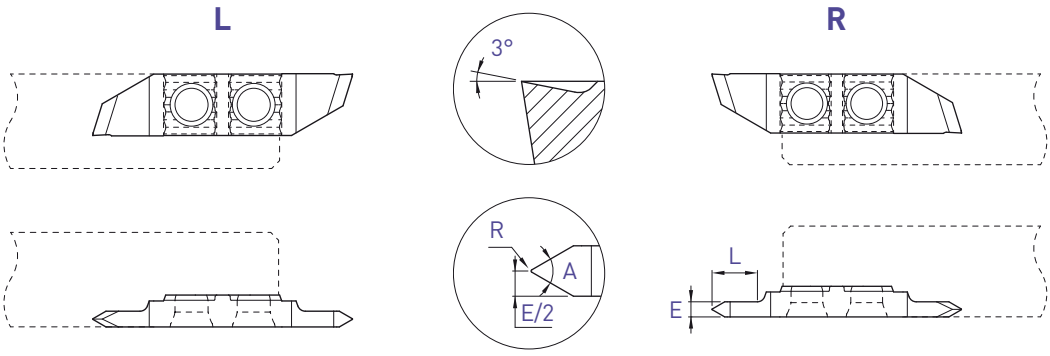
Chanfreinage
Anfasen
Chamfering

635X-90 / 645X-90



		L			R		
E	L	Art. N°	TiAlN	N (µk20)	Art. N°	TiAlN	N (µk20)
1.5	4	635X5-90-1.5	●	●	645X5-90-1.5	●	●

636X / 646X

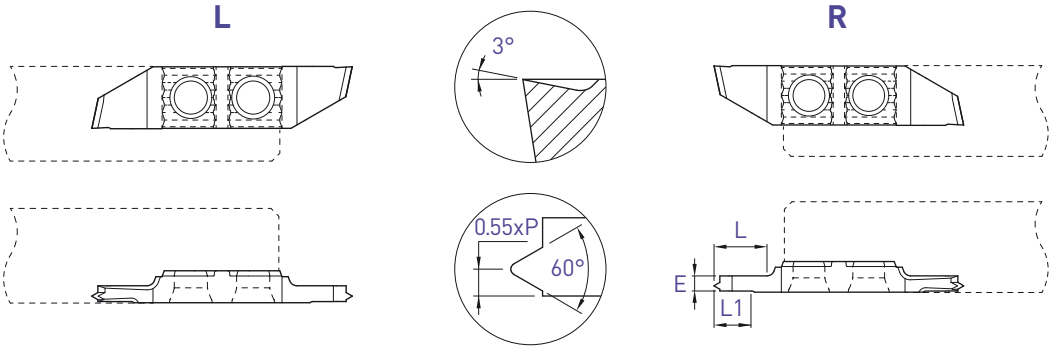


Profil partiel
Teilprofil
Partial profile

				L			R		
A	E	L	R	Art. N°	P M N S TiAlN	N N (µk20)	Art. N°	P M N S TiAlN	N N (µk20)
55°	1.5	4	0	**636X3-55-1.5**	●	●	**646X3-55-1.5**	●	●
55°	2.0	6	0.03	**636X3-55-2.0-R03**	●	●	**646X3-55-2.0-R03**	●	●
60°	1.5	4	0	**636X3-60-1.5**	●	●	**646X3-60-1.5**	●	●
60°	2.0	6	0.03	**636X3-60-2.0-R03**	●	●	**646X3-60-2.0-R03**	●	●
60°	2.0	6	0.06	**636X3-60-2.0-R06**	●	●	**646X3-60-2.0-R06**	●	●
60°	3.0	8	0.06	**636X3-60-3.0-R06**	●	●	**646X3-60-3.0-R06**	●	●
60°	3.0	8	0.12	**636X3-60-3.0-R12**	●	●	**646X3-60-3.0-R12**	●	●

Filetage
Gewinde drehen
Threading

636X-M / 646X-M



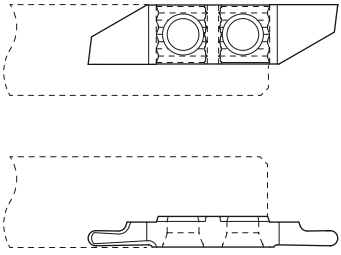
Profil complet métrique
Metrisches Vollprofil
Metric full profile

				L			R		
E	L	L1	Pas Steigung Pitch P	Art. N°	TiAlN	N (µk20)	Art. N°	TiAlN	N (µk20)
1.0	3	3	0.25	**636X3-M-0.25**	●	●	**646X3-M-0.25**	●	●
1.0	3	3	0.30	**636X3-M-0.30**	●	●	**646X3-M-0.30**	●	●
1.0	3	3	0.35	**636X3-M-0.35**	●	●	**646X3-M-0.35**	●	●
1.0	3	3	0.40	**636X3-M-0.40**	●	●	**646X3-M-0.40**	●	●
1.0	3	3	0.45	**636X3-M-0.45**	●	●	**646X3-M-0.45**	●	●
1.0	3	3	0.50	**636X3-M-0.50**	●	●	**646X3-M-0.50**	●	●
1.5	5	5	0.60	**636X3-M-0.60**	●	●	**646X3-M-0.60**	●	●
1.5	5	5	0.70	**636X3-M-0.70**	●	●	**646X3-M-0.70**	●	●
1.5	5	5	0.75	**636X3-M-0.75**	●	●	**646X3-M-0.75**	●	●
1.5	5	5	0.80	**636X3-M-0.80**	●	●	**646X3-M-0.80**	●	●
2.0	7	5	1.00	**636X3-M-1.00**	●	●	**646X3-M-1.00**	●	●
2.0	7	5	1.25	**636X3-M-1.25**	●	●	**646X3-M-1.25**	●	●
2.0	7	5	1.50	**636X3-M-1.50**	●	●	**646X3-M-1.50**	●	●

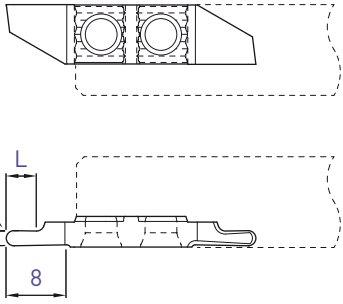
637 / 647

Plaquettes à rayon
Radius Wendeplatten
Radius inserts

L



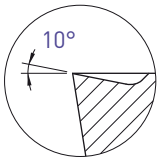
R

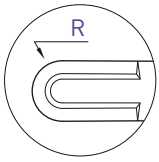


		L					R				
R	L	Art. N°	P M N S	N (µk20)	P M N S	HN (µk10)	Art. N°	P M N S TiAlN	N (µk20)	P M N S HTA	HN (µk10)
0.25	1.5	-					647-R0.25	●	●		
0.4	2	-					647-R0.4	●	●		
0.5	2.5	637-R0.5	●	●			647-R0.5	●	●	●	●
0.6	2.5	-					647-R0.6	●	●		
0.75	3	-					647-R0.75	●	●		
0.8	3	-					647-R0.8	●	●		
1.0	4	637-R1.0	●	●			647-R1.0	●	●		
1.5	6	-					647-R1.5	●	●		

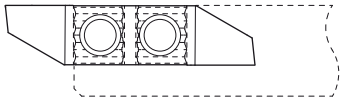
Plaquettes à rayon
Radius Wendeplatten
Radius inserts

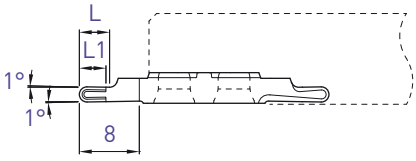
647ZX10



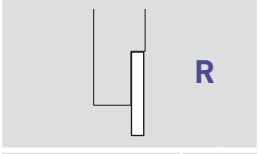


R



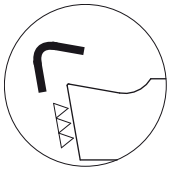


Pour un meilleur contrôle des copeaux
Für eine bessere Spankontrolle
For a better chip control



R

R	L	L1	Art. N°	TiAlN	N (µk20)
1.0	4	3.5	**647ZX10-R1.0**	●	
1.5	6	4	**647ZX10-R1.5**	●	



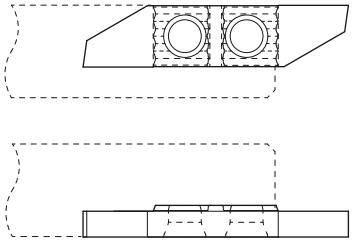
Arête de coupe honée
Gehonte Schneidkante
Honed edge

f min: 0.02 mm/U

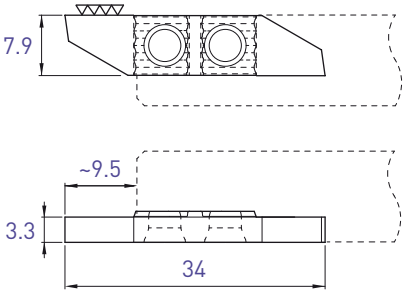
631-EP / 641-EP

Plaquettes ébauches
WSP-Rohlinge
Blank inserts

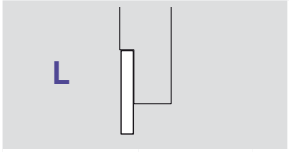
L

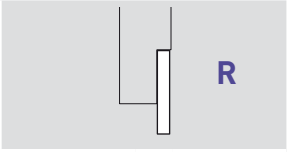


R



Face de coupe polie
Polierte Schneidfläche
Polished cutting face



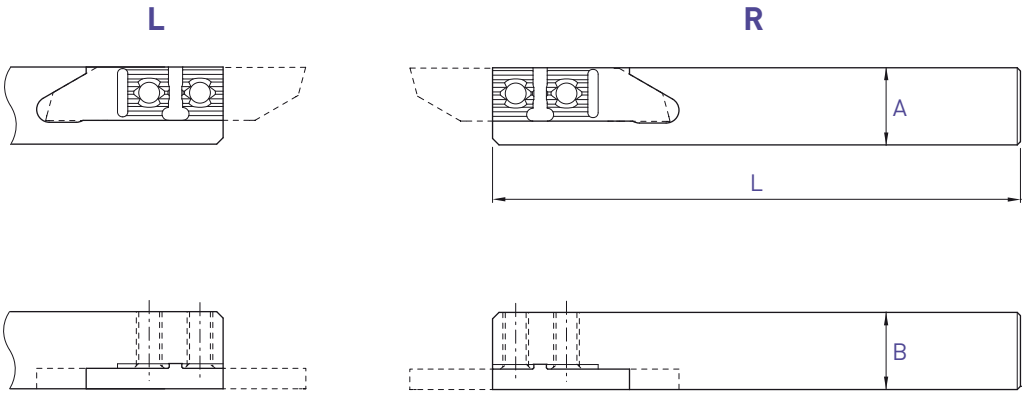


Art. N°	P M N S TiAlN	N (µk20)	P M N S HTA	HN (µk10)
631-EP	●	●	●	●

Art. N°	P M N S TiAlN	N (µk20)	P M N S HTA	HN (µk10)
641-EP	●	●	●	●

Porte-outils
Halter
Holders

650 / 660



A x B	L	L Art. N°	R Art. N°
8 x 8	115	**650-8**	**660-8**
10 x 10	115	**650-10**	**660-10**
10 x 10	50	**650-10-50**	**660-10-50**
12 x 12	130	**650-12**	**660-12**
12 x 12	90	**650-12-90**	**660-12-90**
12.7 x 12.7	130	**650-12.7**	**660-12.7**
16 x 16	130	**650-16**	**660-16**
16 x 16	75	**650-16-75**	**660-16-75**
20 x 20	120	**650-20**	**660-20**

Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

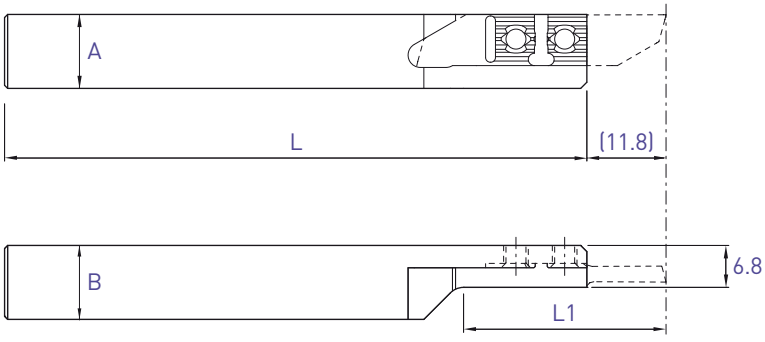
650 RC

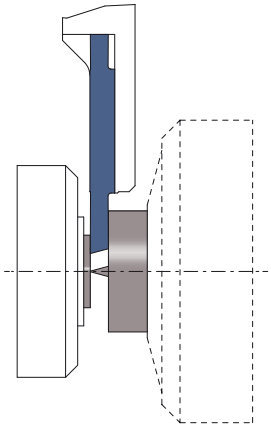
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

Porte-outils
Halter
Holders

Utiliser des plaquettes type 651R
WSP Typ 651R verwenden
Use inserts type 651R

Voir dès page 5.39
Siehe ab Seite 5.39
See from page 5.39





L (R)

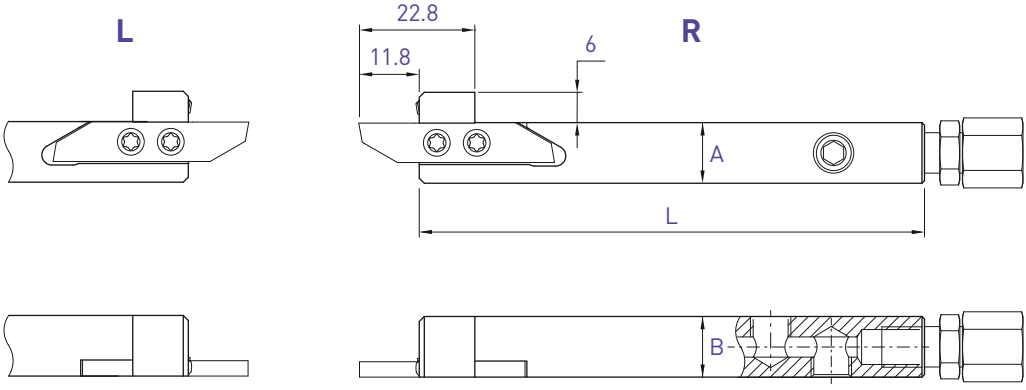
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

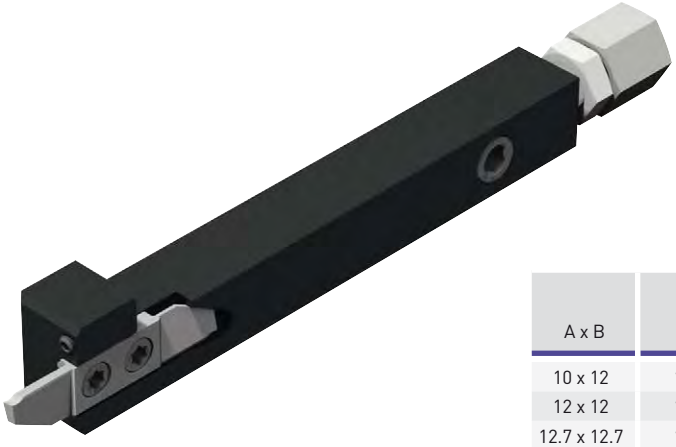
A x B	L	L1	Art. N°
10 x 10	115	32	**650RC-10**
12 x 12	130	32	**650RC-12**
16 x 16	130	42	**650RC-16**

Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

Porte-outils avec arrosage intégré
Halter mit integrierter Kuhlmittelzufuhr
Holders with integrated coolant supply

650-JET / 660-JET



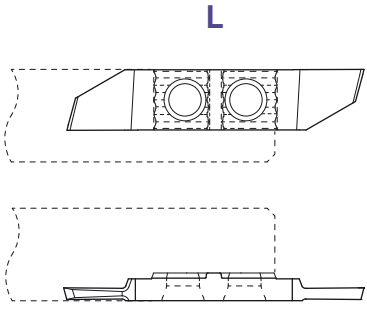


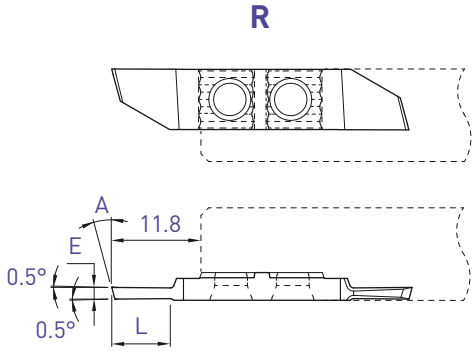
A x B	L	L Art. N°	R Art. N°
10 x 12	100	**650-1012-JET**	**660-1012-JET**
12 x 12	100	**650-12-JET**	**660-12-JET**
12.7 x 12.7	100	**650-12.7-JET**	**660-12.7-JET**
16 x 16	100	**650-16-JET**	**660-16-JET**
20 x 20	100	**650-20-JET**	**660-20-JET**

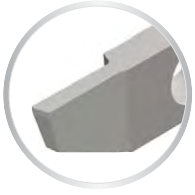
Chaque support est livré avec vis, raccord droit et buse d'arrosage Ø 1.5 mm. Les clés sont à commander séparément.
Jeder Halter wird mit Spannschraube(n), gerader Kühlmittelanschluss und Kühlmitteldüse Ø 1.5 mm geliefert. Die Schlüssel sind separat zu bestellen.
Screw(s), straight connector and coolant nozzle Ø 1.5 mm are included with each tool holder. The keys must be ordered separately.

651 / 661

Tronçonnage
Abstechen
Parting off



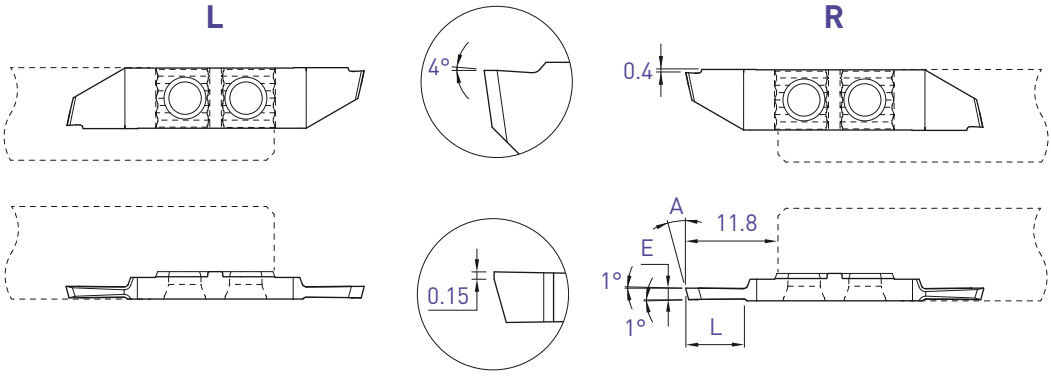




L								R				
E	A	L	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)
0.8	20°	5	**651-0.8-20°**	●	●			**661-0.8-20°**	●	●	●	●
1.0	15°	5	–					**661-1.0-15°**	●	●		
1.0	20°	5	**651-1.0-20°**	●	●			**661-1.0-20°**	●	●		
1.2	15°	5	–					**661-1.2-15°**	●	●		
1.2	20°	5	**651-1.2-20°**	●	●			**661-1.2-20°**	●	●		
1.5	15°	7.5	**651-1.5-15°**	●	●			**661-1.5-15°**	●	●		
1.5	20°	7.5	–					**661-1.5-20°**	●	●		
1.8	15°	9	**651-1.8-15°**	●	●			**661-1.8-15°**	●	●		
2.0	15°	11	**651-2.0-15°**	●	●	●		**661-2.0-15°**	●	●	●	●
2.5	15°	11	**651-2.5-15°**	●	●			**661-2.5-15°**	●	●		

Tronçonnage
Abstechen
Parting off

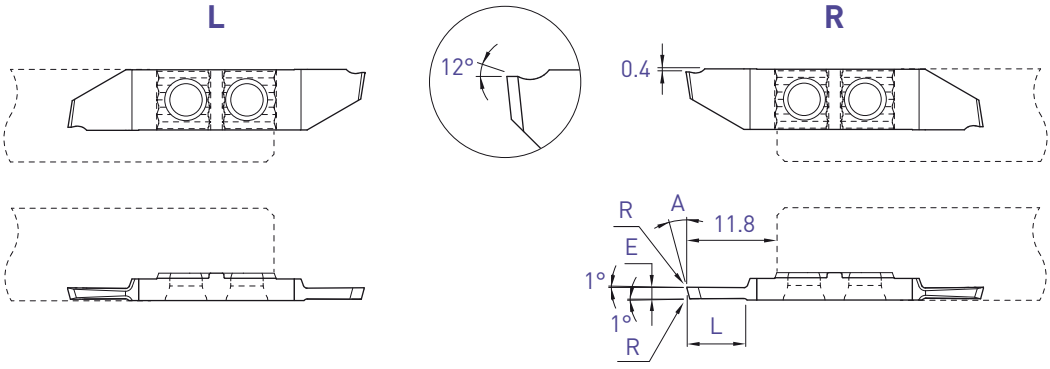
651XF / 661XF



L								R				
E	A	L	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)
1.5	15°	7.5	**651XF-1.5**	●	●			**661XF-1.5**	●	●		
2.0	15°	11	**651XF-2.0**	●	●			**661XF-2.0**	●	●		

651X12 / 661X12

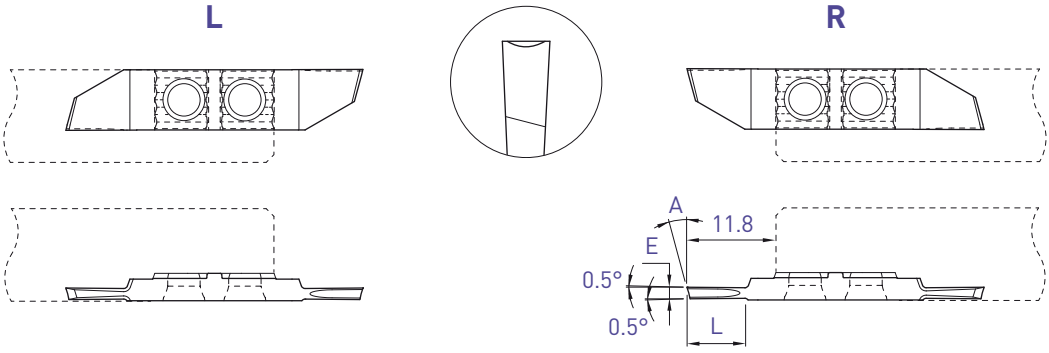
Tronçonnage
Abstechen
Parting off



L									R				
E	A	L	R	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)
1.0	15°	5	0.03	**651X12-1.0**	●	●			**661X12-1.0**	●	●		
1.5	15°	7.5	0.03	**651X12-1.5**	●	●			**661X12-1.5**	●	●		
2.0	15°	11	0.03	**651X12-2.0**	●	●			**661X12-2.0**	●	●		

Tronçonnage
Abstechen
Parting off

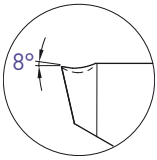
651U / 661U

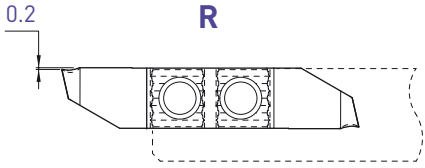


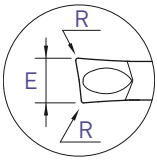
L						R		
E	A	L	Art. N°	TiAlN	N (µk20)	Art. N°	TiAlN	N (µk20)
1.5	15°	7.5	**651U-1.5**	●	●	**661U-1.5**	●	●
2.0	15°	11	**651U-2.0**	●	●	**661U-2.0**	●	●

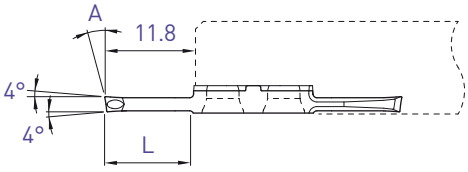
661ZU

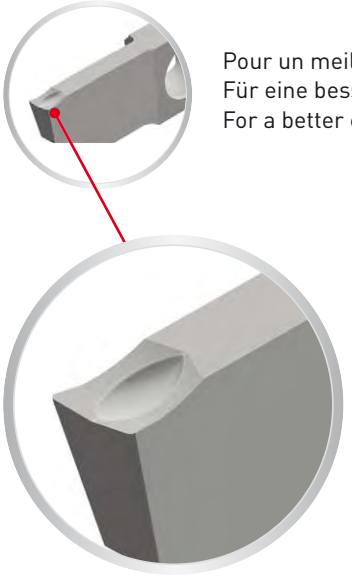
Tronçonnage
Abstechen
Parting off



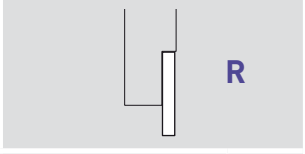




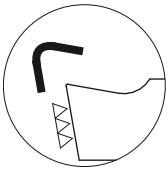




Pour un meilleur contrôle des copeaux
Für eine bessere Spankontrolle
For a better chip control



E	A	L	R	Art. N°	TiAlN	N (µk20)
2.0	8°	11	0.10	**661ZU8-2.0-8°-R10**	●	



Arête de coupe honée
Gehonte Schneidkante
Honed edge

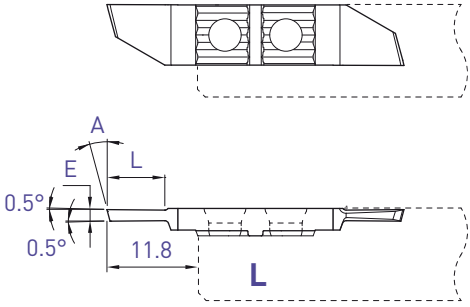
f min: 0.02 mm/U

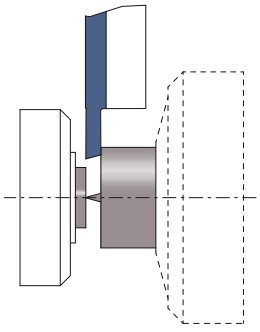
Tronçonnage
Abstechen
Parting off

Coupe déportée
Versetztes Schneiden
Cut off line

651R

Cut R





L (R)

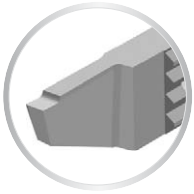
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

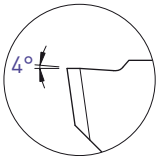
E	A	L	Art. N°	P M N S TiAlN	N (µk20)	P M N S HTA	N HN (µk10)
1.0	15°	5	**651R-1.0-15°**	●	●		
1.2	15°	5	**651R-1.2-15°**	●	●		
1.5	15°	7.5	**651R-1.5-15°**	●	●		
2.0	15°	11	**651R-2.0-15°**	●	●		
2.5	15°	11	**651R-2.5-15°**	●	●		

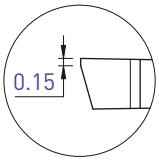
651RXF

Coupe déportée
Versetztes Schneiden
Cut off line

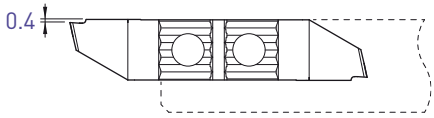
Tronçonnage
Abstechen
Parting off

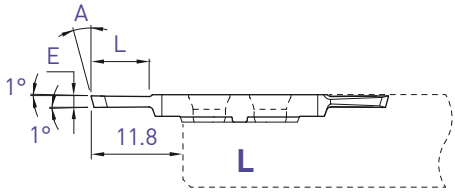


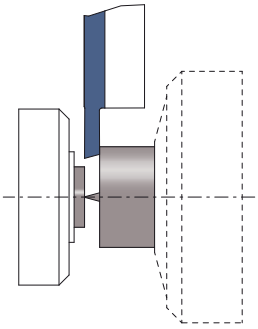




Cut R







L (R)

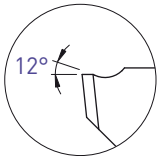
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

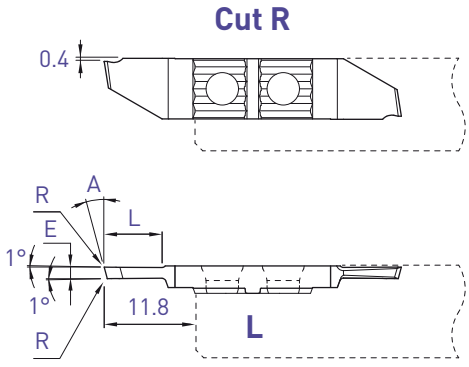
E	A	L	Art. N°	P M N S TiAlN	N (μk20)	P M N S HTA	HN (μk10)
1.5	15°	7.5	**651RXF-1.5**	●	●		
2.0	15°	11	**651RXF-2.0**	●	●		

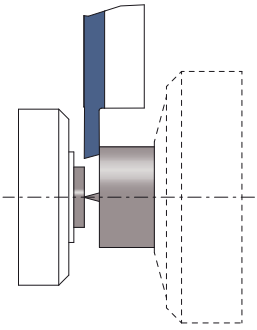
Tronçonnage
Abstechen
Parting off

Coupe déportée
Versetztes Schneiden
Cut off line

651RX12







L (R)

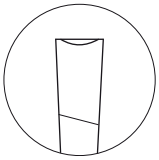
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

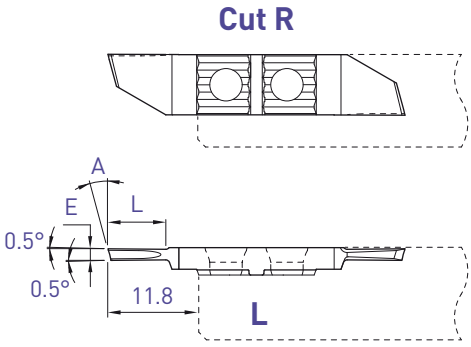
E	A	L	R	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)
1.5	15°	7.5	0.03	**651RX12-1.5**	●	●		
2.0	15°	11	0.03	**651RX12-2.0**	●	●		

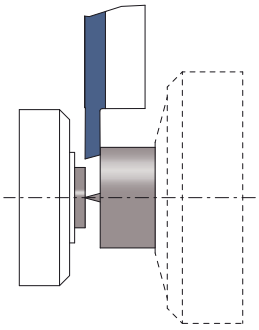
651RU

Coupe déportée
Versetztes Schneiden
Cut off line

Tronçonnage
Abstechen
Parting off







L (R)

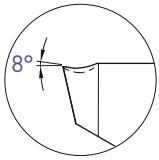
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

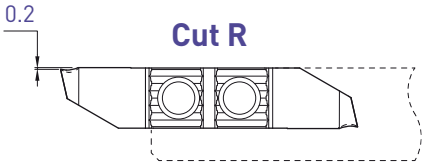
E	A	L	Art. N°	TiAlN	N (µK20)
1.5	15°	7.5	**651RU-1.5**	●	●
2.0	15°	11	**651RU-2.0**	●	●

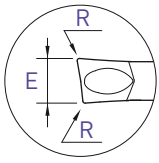
Tronçonnage
Abstechen
Parting off

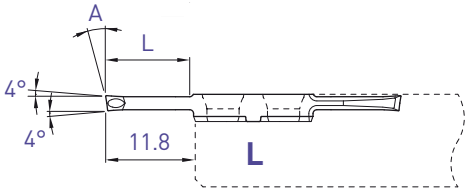
Coupe déportée
Versetztes Schneiden
Cut off line

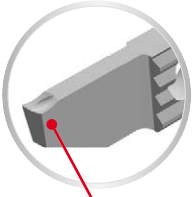
651RZU



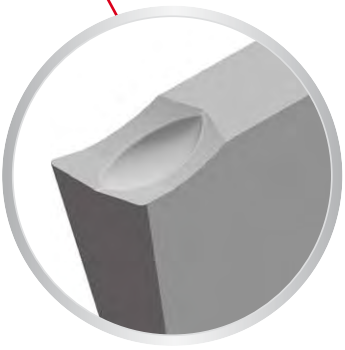






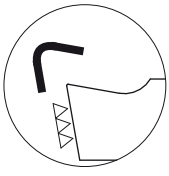


Pour un meilleur contrôle des copeaux
Für eine bessere Spankontrolle
For a better chip control



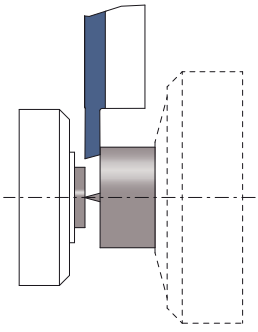
L (R)
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

E	A	L	R	Art. N°	P M N S TiAlN	N N (µK20)
2.0	8°	11	0.10	**651RZU8-2.0-8°-R10**	●	



Arête de coupe honée
Gehonte Schneidkante
Honed edge

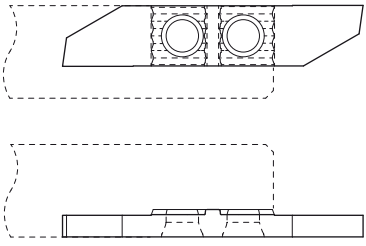
f min: 0.02 mm/U



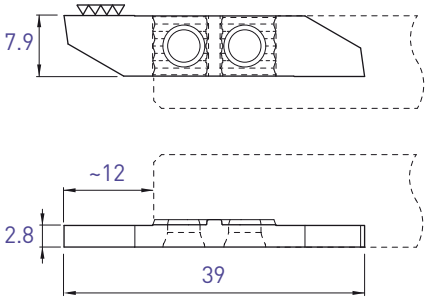
651-EP / 661-EP

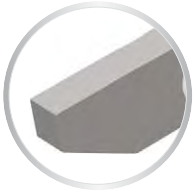
Plaquettes ébauches
WSP-Rohlinge
Blank inserts

L

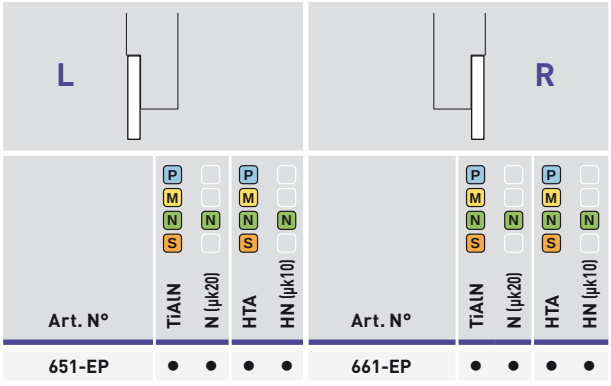


R

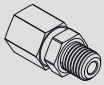




Face de coupe polie
Polierte Schneidfläche
Polished cutting face



Pièces de rechange et accessoires
Ersatzteile und Zubehöre
Spare parts and accessories

Porte-outils Halter Holders					Options 		
						Art. N°	Recommandation de serrage Empfehlung zum Spannen Clamping recommendation
630 640	**V-M4X9-T15**	-	-	-	**C-T15**	**SET-NM3.0-TX15**	3 Nm
630-JET 640-JET		**J-M8X1-D6**	**JB-M8X1**	**JJ-M3X6-D1.5**			
650 660		-	-	-			
650-RC	**V-M4X6.5-T15**	-	-	-			
650-JET 660-JET	**V-M4X9-T15**	**J-M8X1-D6**	**JB-M8X1**	**JJ-M3X6-D1.5**			

ECO-Line

APPLITEC
CUTTING TOOLS

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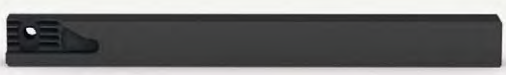
Porte-outils Halter Holders		> 6.08
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2	6	4	X	-	2.0	-	R20	-	AP302

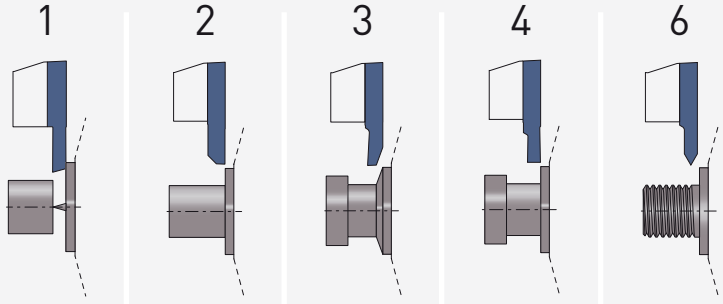
Dimension
Abmessung
Dimension

Rayon
Radius
Radius

Nuance
Sorte
Grade

Géométrie de coupe	brise-copeaux	particularités
Schneidgeometrie	Spanbrecher	Sondereigenschaften
Cutting geometry	chip breaker	special features

Géométrie d'usinage
Bearbeitungsgeometrie
Machining geometry

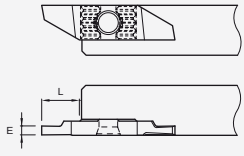


Gamme de produit définit la compatibilité des plaquettes avec le porte-outil
Produktserie bestimmt die WSP und Halter Kompatibilität
Product series shows the inserts and holder compatibility

L = 5 (chiffre impair / ungerade Zahl / uneven number)

R = 6 (chiffre pair / gerade Zahl / even number)

L	R
250	260

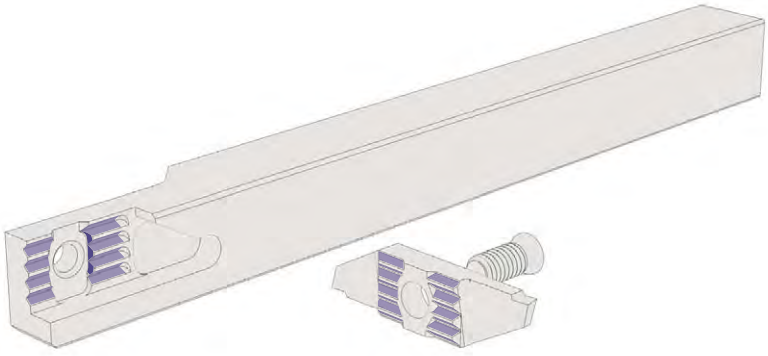


E max = 3.0 mm
L max = 8.5 mm

Applitec série 200 Système de serrage à denture avec 1 vis de fixation
Applitec 200 Serie Spannsystem mit Verzahnung und 1 Schraube
Applitec 200 series Teeth clamping system with 1 screw

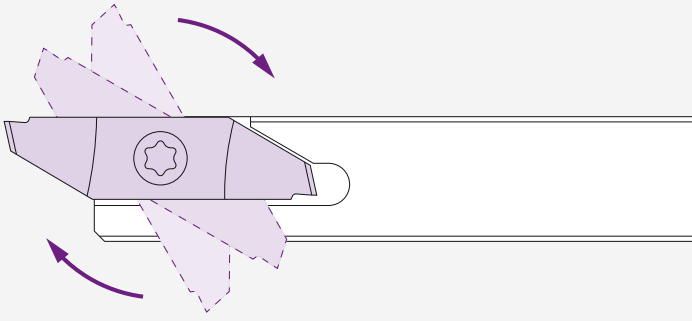
Economic performance!

Système de serrage à denture Applitec avec repositionnement au centre
Applitec-Zahnklemmsystem mit zentraler Neupositionierung
Applitec toothed clamping system with central repositioning



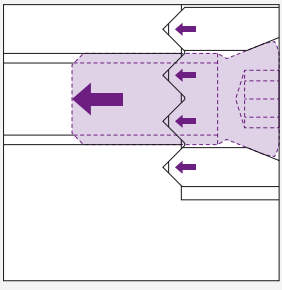
High precision

Grande précision lors du retournement de la plaquette
Hohe Präzision beim Wenden der Platte
High precision when flipping the insert



Applitec toothing

Système de serrage en fond de denture
Klemmvorrichtung an der Prothesenbasis
Clamping system at the denture base



µK20

AP302

K20

µK20 + revêtement PVD
µK20 + PVD Beschichtung
µK20 + PVD coating

TF F **M** E

P	★★★★★
M	★★★★★
N	★★★★☆
S	★★★★☆

- excellente nuance universelle
- 1er choix pour l'usinage des aciers, aciers inoxydables et alliages de titane
- très bonne résistance à la température

- beste Universalsorte
- für die Bearbeitung von Stahl, rostfreiem Stahl und Titanlegierungen bestens geeignet
- sehr gute Warmfestigkeit

- best universal grade
- first choice for steel, stainless steel and titanium alloys machining
- very good heat resistance

µK20

AP202

K20

µK20 + revêtement PVD
µK20 + PVD Beschichtung
µK20 + PVD coating

TF F **M** E

P	★★★★☆
M	★★★★☆
N	★★★☆☆
S	★★★☆☆

- nuance particulièrement adaptée aux faibles vitesses de coupe
- ancienne nuance, disponible uniquement sur demande

- besonders geeignete Sorte für niedrige Schnittgeschwindigkeiten
- ältere Sorte, nur auf Anfrage erhältlich

- grade particularly suitable for low cutting speeds
- previous grade, available on request only

µK20

N

K20

Non revêtu
Unbeschichtet
Uncoated

P	★☆☆☆☆
M	★☆☆☆☆
N	★★★☆☆
S	★★★☆☆

- nuance micro-grain tenace
- supporte les coupes interrompues et autres conditions d'usinage défavorables

- zähe Feinkornsorte
- für unterbrochene Schnitte und andere ungünstige Bearbeitungsbedingungen

- tough micro-grain grade
- suitable for interrupted cut and other unfavourable machining conditions

Nuances
Sorten
Grades

µK10

AH302

K10

µK20 + revêtement PVD
µK20 + PVD Beschichtung
µK20 + PVD coating

TF F **M** E

P ★★★★★
M ★★★★★
N ★★★★☆
S ★★★★☆

- nuance très résistante à l'usure
- pour l'usinage en finition dans des conditions favorables des aciers, aciers inoxydables et alliages de titanes

- sehr verschleissfeste Sorte
- für die Feinbearbeitung von Stahl, rostfreiem Stahl und Titanlegierungen bei guten Bearbeitungsbedingungen

- very wear resistant grade
- for light machining of steel, stainless steel and titanium alloys under favourable machining conditions

µK10

HN

K10

Non revêtu
Unbeschichtet
Uncoated

P ★☆☆☆☆
M ★☆☆☆☆
N ★★★☆☆
S ★★★☆☆

- nuance micro-grain très résistante à l'usure
- recommandé pour l'usinage du titane faiblement allié
- déconseillé en cas de coupe interrompue et autres conditions d'usinage défavorables

- verschleissfeste Feinkornsorte
- für die Bearbeitung von niedrig legiertem Titan empfehlenswert
- für unterbrochene Schnitte und andere ungünstige Bearbeitungsbedingungen nicht geeignet

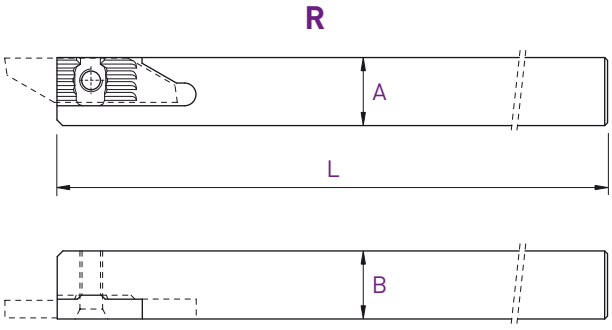
- wear resistant micro-grain grade
- suitable for the machining of low alloyed titanium
- not suitable for interrupted cut and other unfavourable machining conditions

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

Matière Werkstoff Material		Tournage Drehen Turning		Tronçonnage Abstechen Parting off	
		VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)
Acier de décolletage Automatenstahl Free-cutting steel	P	120 - 200	0.01 - 0.20	80 - 150	0.01 - 0.15
Acier Stahl Steel < 600 N/mm²	P	80 - 160	0.01 - 0.18	70 - 120	0.01 - 0.12
Acier Stahl Steel < 800 N/mm²	P	60 - 120	0.01 - 0.15	60 - 100	0.01 - 0.10
Acier Stahl Steel > 800 N/mm²	P	50 - 100	0.01 - 0.12	40 - 80	0.01 - 0.08
Acier inoxydable Rostfreistahl Stainless steel	M	60 - 120	0.01 - 0.15	60 - 100	0.01 - 0.08
Aluminium	N	180 - 800	0.01 - 0.30	150 - 300	0.01 - 0.20
Cuivre, laiton, bronze Kupfer, Messing, Bronze Copper, brass, bronze	N	100 - 500	0.01 - 0.30	100 - 300	0.01 - 0.20
Titane Titan Titanium	S	30 - 70	0.01 - 0.12	30 - 50	0.01 - 0.06

250 / 260

Porte-outils
Halter
Holders



		L	R
A x B	L	Art. N°	Art. N°
8 x 8	115	**250-8**	**260-8**
10 x 10	115	**250-10**	**260-10**
12 x 12	130	**250-12**	**260-12**
12 x 12	90	**250-12-90**	**260-12-90**
12.7 x 12.7	130	**250-12.7**	**260-12.7**
16 x 16	130	**250-16**	**260-16**
16 x 16	75	**250-16-75**	**260-16-75**
20 x 20	120	**250-20**	**260-20**

Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

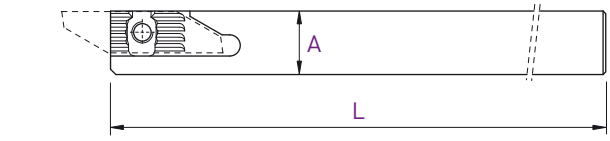
Jeder Halter wird mit einer oder mehreren Schrauben geliefert.
Die Schlüssel sind separat zu bestellen.

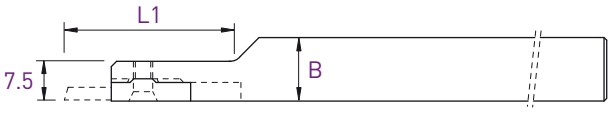
Each holder is supplied with one or more screws.
The keys must be ordered separately.

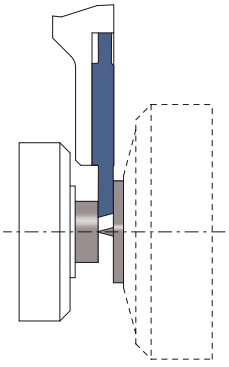
Porte-outils
Halter
Holders

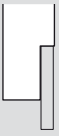
260-C

R







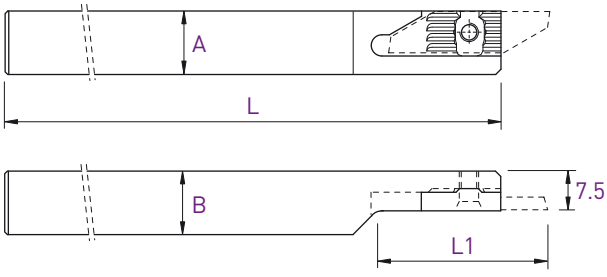


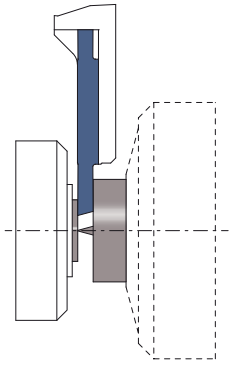
A x B	L	L1	Art. N°
12 x 12	130	30	**260-C-12**

Porte-outils
Halter
Holders

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

250RC

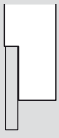




Utiliser des plaquettes type 251R
WSP Typ 251R verwenden
Use inserts type 251R

L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line



A x B	L	L1	Art. N°
12 x 12	130	30	**250RC-12**
16 x 16	130	40	**250RC-16**

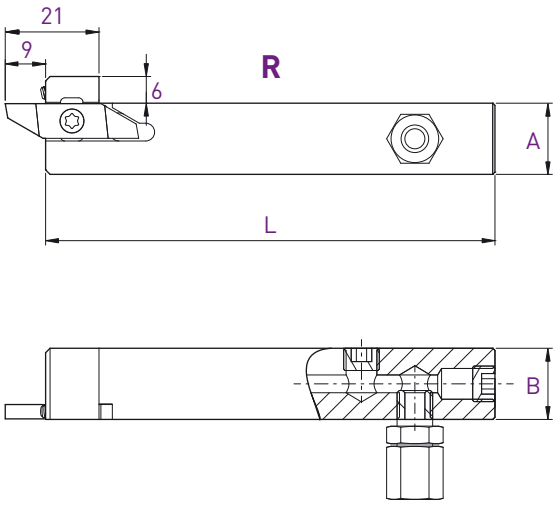
Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

Jeder Halter wird mit einer oder mehreren Schrauben geliefert.
Die Schlüssel sind separat zu bestellen.

Each holder is supplied with one or more screws.
The keys must be ordered separately.

250-JET / 260-JET

Porte-outils avec arrosage intégré
Halter mit integrierter Kühlmittelzufuhr
Holders with integrated coolant supply

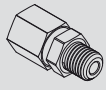


		L	R
A x B	L	Art. N°	Art. N°
10 x 12	100	**250-1012-JET**	**260-1012-JET**
12 x 12	100	**250-12-JET**	**260-12-JET**
16 x 16	100	**250-16-JET**	**260-16-JET**
20 x 20	100	**250-20-JET**	**260-20-JET**

Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

Jeder Halter wird mit einer oder mehreren Schrauben geliefert.
Die Schlüssel sind separat zu bestellen.

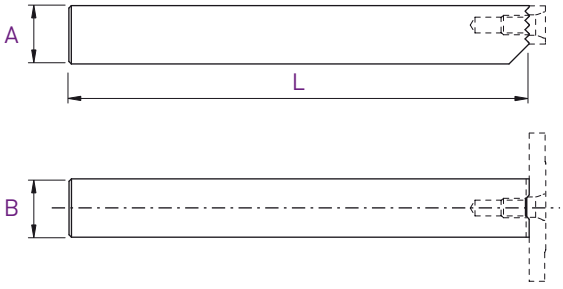
Each holder is supplied with one or more screws.
The keys must be ordered separately.

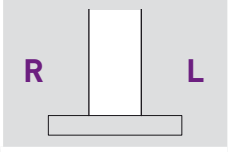
Pièces de rechange Ersatzteile Spare parts			Buse Düse Nozzle
	Art. N°	Art. N°	Art. N°
250-JET / 260-JET	**J-M8X1-D6**	**JB-M8X1**	**JJ-M3X6-D1.5**

Porte-outils
Halter
Holders

260/250F

L / R



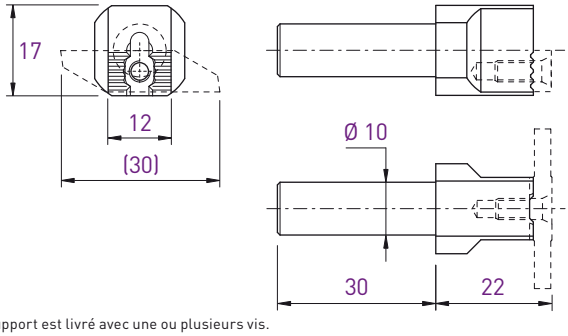


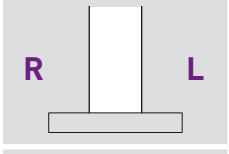
A x B	L	Art. N°
10 x 12	120	**260/250F-1012**
12 x 12	120	**260/250F-1212**

Porte-outils
Halter
Holders

260/250-D

L / R





Art. N°
260/250-D10

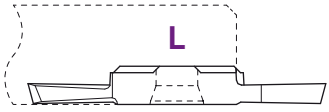
Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

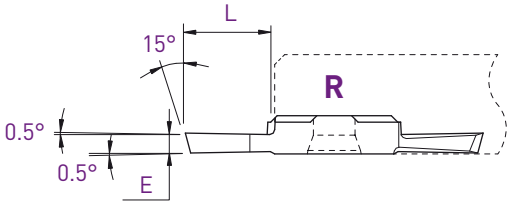
Jeder Halter wird mit einer oder mehreren Schrauben geliefert.
Die Schlüssel sind separat zu bestellen.

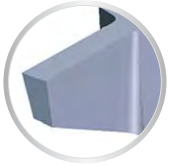
Each holder is supplied with one or more screws.
The keys must be ordered separately.

251 / 261

Tronçonnage
Abstechen
Parting off





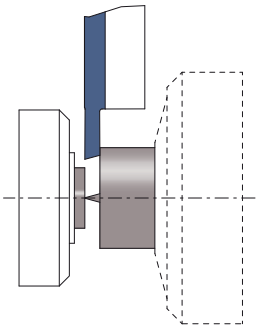


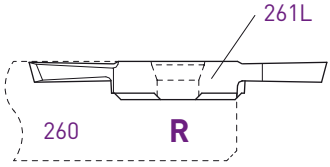
		L				R			
E	L	Art. N°	AP302	AP202	N (µK20)	Art. N°	AP302	AP202	N (µK20)
0.8	4	**251-0.8**	●	●	●	**261-0.8**	●	●	●
1.0	5	**251-1.0**	●	●	●	**261-1.0**	●		●
1.2	5	**251-1.2**	●	●	●	**261-1.2**	●	●	●
1.5	7	**251-1.5**	●		●	**261-1.5**	●		●
2.0	8.5	**251-2.0**	●		●	**261-2.0**	●		●
2.5	8.5	**251-2.5**	●	●	●	**261-2.5**	●		●

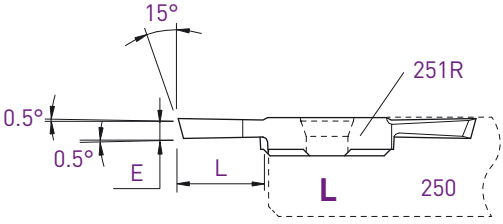
Tronçonnage
Abstechen
Parting off

Coupe déportée
Versetztes Schneiden
Cut off line

261L / 251R



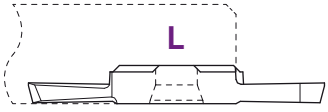


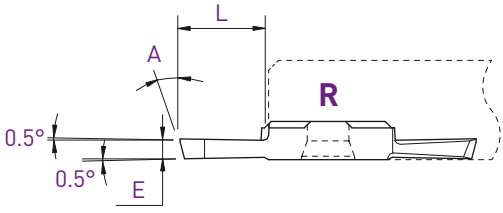


		R (L) Coupe à gauche déportée Versetztes Linksschneiden Left cut off line				L (R) Coupe à droite déportée Versetztes Rechtsschneiden Right cut off line			
E	L	Art. N°	AP302	AP202	N (µk20)	Art. N°	AP302	AP202	N (µk20)
1.0	5	-				**251R-1.0**	●		●
1.5	7	-				**251R-1.5**	●	●	●
2.0	8.5	**261L-2.0**	●	●	●	**251R-2.0**	●		●

251XF / 261XF

Tronçonnage
Abstechen
Parting off



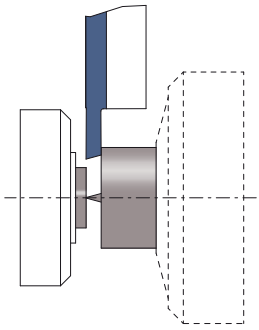


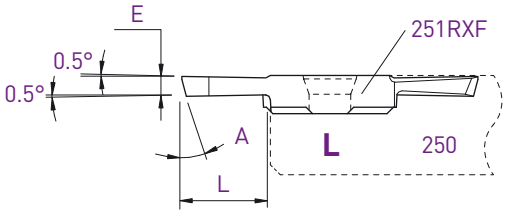
				L				R			
a	E	L	A	Art. N°	AP302	AP202	N (µK20)	Art. N°	AP302	AP202	N (µK20)
4°	1.0	4	15°	-				261XF-1.0	●		●
6°	1.0	4	8°	-				261XF6°-1.0-8°	●		●
4°	1.5	7	15°	251XF-1.5	●		●	261XF-1.5	●	●	●
4°	2.0	8.5	15°	251XF-2.0	●	●	●	261XF-2.0	●	●	●

Tronçonnage
Abstechen
Parting off

Coupe déportée
Versetztes Schneiden
Cut off line

251RXF





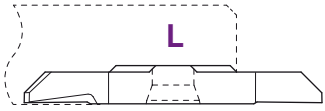
L (R)

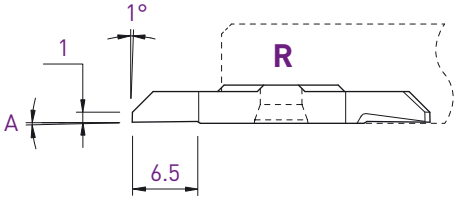
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

a	E	L	A	Art. N°	AP302	AP202	N (µK20)
6°	1.0	4	8°	**251RXF6°-1.0-8°**	●		●
4°	1.5	7	15°	**251RXF-1.5**	●	●	●
4°	2.0	8.5	15°	**251RXF-2.0**	●		●

252 / 262

Tournage avant
Vorwärts drehen
Front turning

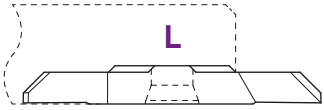


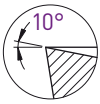


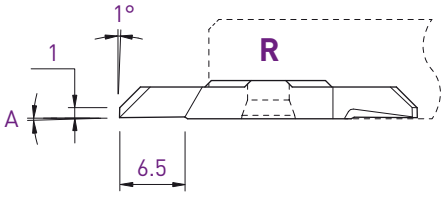
	L				R			
A	Art. N°	AP302	AP202	N (µk20)	Art. N°	AP302	AP202	N (µk20)
0°	252	●	●	●	262	●		●
2°	252-2°	●	●	●	262-2°	●	●	●

Tournage avant
Vorwärts drehen
Front turning

252X / 262X



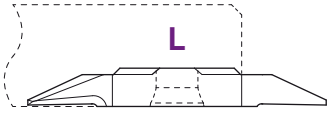


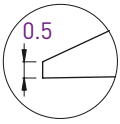


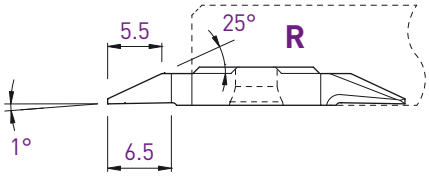
	L				R			
A	Art. N°	AP302	AP202	N (µK20)	Art. N°	AP302	AP202	N (µK20)
0°	252X	●	●	●	262X	●		●
2°	252X-2°	●	●	●	262X-2°	●	●	●

252S / 262S

Tournage avant
Vorwärts drehen
Front turning

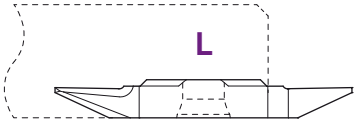


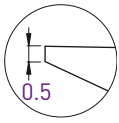


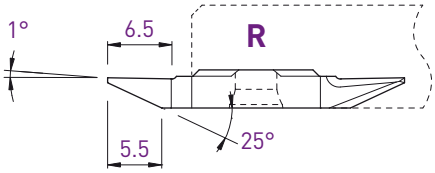


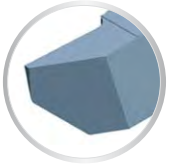
L				R			
Art. N°	AP302	AP202	N (µk20)	Art. N°	AP302	AP202	N (µk20)
252S05	●	●	●	262S05	●	●	●

Tournage arrière
Rückwärts drehen
Back turning





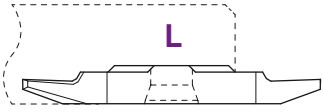


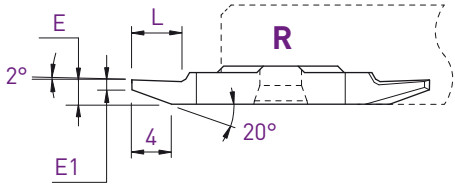


L				R			
Art. N°	AP302 (P M N S)	AP202 (P M N S)	N (µK20) (N)	Art. N°	AP302 (P M N S)	AP202 (P M N S)	N (µK20) (N)
253S05	●	●	●	263S05	●	●	●

253 / 263

Tournage arrière
Rückwärts drehen
Back turning

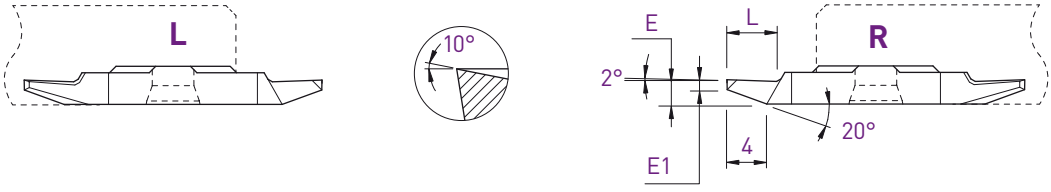




			L				R			
E	E1	L	Art. N°	AP302	AP202	N (µK20)	Art. N°	AP302	AP202	N (µK20)
2.0	0.5	4	**253-0.5**	●	●	●	**263-0.5**	●		●
2.5	1.0	5	**253-1.0**	●	●	●	**263-1.0**	●		●

Tournage arrière
Rückwärts drehen
Back turning

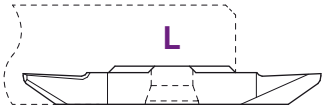
253X / 263X

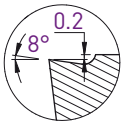


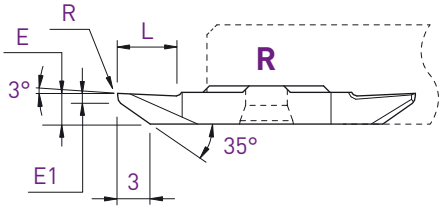
			L				R			
E	E1	L	Art. N°	AP302	AP202	N (µK20)	Art. N°	AP302	AP202	N (µK20)
2.0	0.5	5	**253X-0.5**	●	●	●	**263X-0.5**	●	●	●
2.5	1.0	5	**253X-1.0**	●	●	●	**263X-1.0**	●		●

253VX-8° / 263VX-8°

Tournage arrière
Rückwärts drehen
Back turning



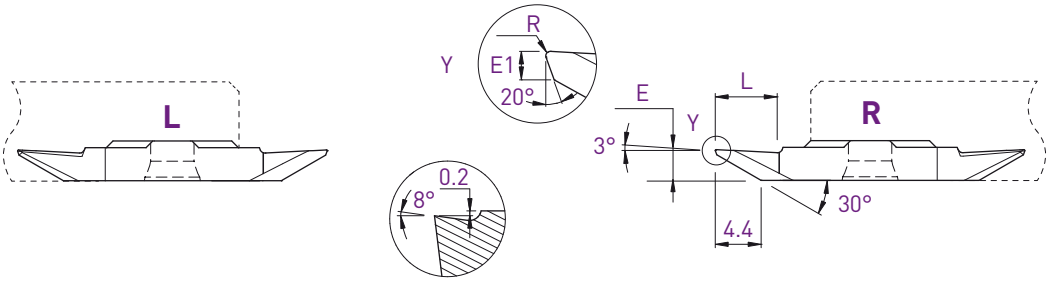




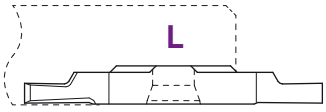
				L				R					
E	E1	L	R	Art. N°	AP302	AP202	N (µk20)	Art. N°	AP302	AP202	N (µk20)	AH302	HN (µk10)
3.1	1.0	6	0	**253VX-8°**	●	●	●	**263VX-8°**	●		●		
3.1	1.0	6	0.08	-				**263VX-8°-R08**	●	●	●	●	●
3.1	1.0	6	0.20	-				**263VX-8°-R20**	●		●	●	●

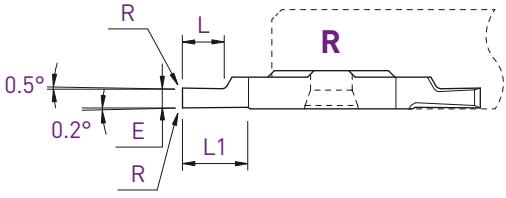
Tournage arrière
Rückwärts drehen
Back turning

253VX-805 / 263VX-805



L								R					
E	E1	L	R	Art. N°	AP302	AP202	N (µk20)	Art. N°	AP302	AP202	N (µk20)	AH302	HN (µk10)
3.0	0.5	6	0.08	253VX-805-R08	●	●	●	263VX-805-R08	●	●	●	●	●

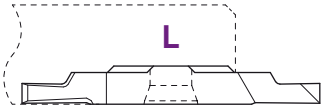


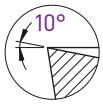


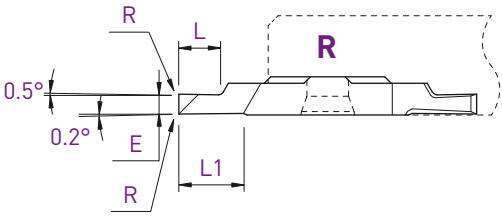
				L				R			
E	L	L1	R	Art. N°	AP302	AP202	N (µK20)	Art. N°	AP302	AP202	N (µK20)
0.8	2	4	0	**254-0.8**	●		●	**264-0.8**	●		●
1.0	2.5	4	0	**254-1.0**	●	●	●	**264-1.0**	●		●
1.2	3	4	0	**254-1.2**	●	●	●	**264-1.2**	●	●	●
1.5	3	4	0	**254-1.5**	●	●	●	**264-1.5**	●		●
1.8	4	6.5	0	-				**264-1.8**	●	●	●
2.0	4	6.5	0	**254-2.0**	●	●	●	**264-2.0**	●	●	●
2.5	6	6.5	0	**254-2.5**	●	●	●	**264-2.5**	●	●	●
3.0	6.5	6.5	0	**254-3.0**	●	●	●	**264-3.0**	●	●	●

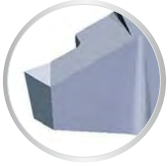
Fonçage-tournage
Einstechen und drehen
Grooving and turning

254X / 264X





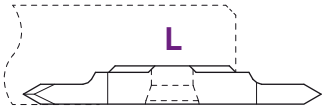


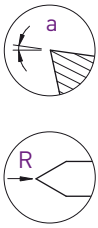


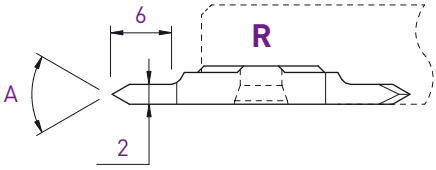
L								R					
E	L	L1	R	Art. N°	AP302	AP202	N (µk20)	Art. N°	AP302	AP202	N (µk20)	AH302	HN (µk10)
0.8	2	4	0	**254X-0.8**	●	●	●	**264X-0.8**	●	●	●		
1.0	2.5	4	0	**254X-1.0**	●	●	●	**264X-1.0**	●	●	●		
1.0	2.5	4	0.08	-				**264X-1.0-R08**	●	●	●	●	●
1.2	3	4	0	**254X-1.2**	●	●	●	**264X-1.2**	●	●	●		
1.5	3	4	0	**254X-1.5**	●	●	●	**264X-1.5**	●		●		
1.5	3	4	0.08	-				**264X-1.5-R08**	●	●	●	●	●
1.5	3	4	0.20	-				**264X-1.5-R20**	●	●	●	●	●
2.0	4	6.5	0	**254X-2.0**	●		●	**264X-2.0**	●	●	●		
2.0	4	6.5	0.08	-				**264X-2.0-R08**	●	●	●	●	●
2.0	4	6.5	0.20	-				**264X-2.0-R20**	●		●	●	●
2.5	6	6.5	0	**254X-2.5**	●	●	●	**264X-2.5**	●	●	●		
2.5	6.5	6.5	0.08	-				**264X-2.5-R08**	●	●	●	●	●
2.5	6.5	6.5	0.20	-				**264X-2.5-R20**	●	●	●	●	●
3.0	6.5	6.5	0	**254X-3.0**	●	●	●	**264X-3.0**	●		●		
3.0	6.5	6.5	0.08	-				**264X-3.0-R08**	●	●	●	●	●
3.0	6.5	6.5	0.20	-				**264X-3.0-R20**	●	●	●	●	●

256-60 / 266-60

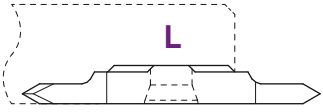
Partial profile 60°

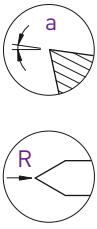


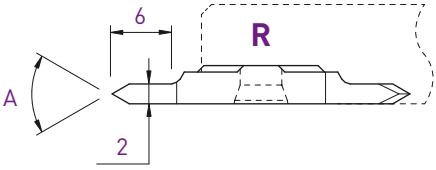




			L				R			
A	R	a	Art. N°	AP302	AP202	N (µk20)	Art. N°	AP302	AP202	N (µk20)
60°	0	0°	**256-60-2.0**	●		●	**266-60-2.0**	●		●
60°	0.06	3°	**256-AG60°**	●	●	●	**266-AG60°**	●		●



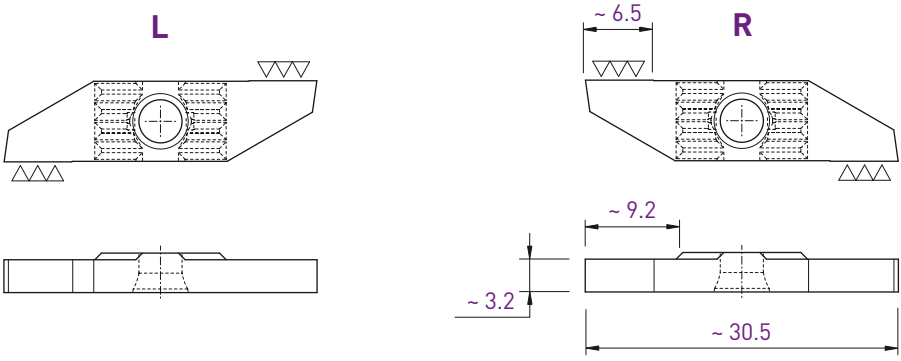




			L				R			
A	R	a	Art. N°	AP302	AP202	N (µK20)	Art. N°	AP302	AP202	N (µK20)
55°	0	0°	**256-55-2.0**	●	●	●	**266-55-2.0**	●	●	●
55°	0.06	3°	**256-AG55°**	●	●	●	**266-AG55°**	●	●	●

251-E / 261-E

Plaquettes ébauches
WSP-Rohlinge
Blank inserts

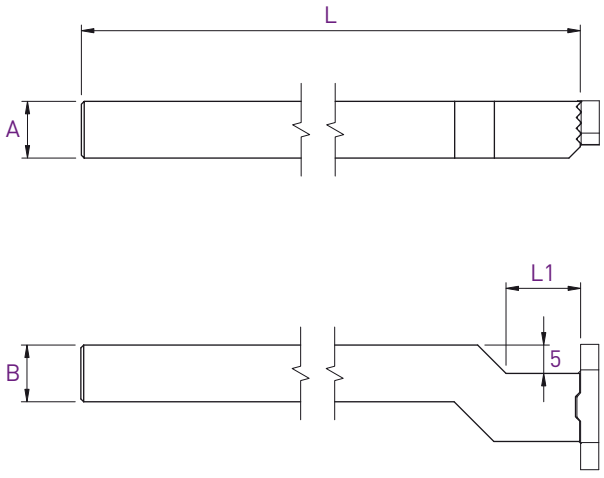


L						R					
Art. N°	AP302	AP202	N (µk20)	AH302	HN (µk10)	Art. N°	AP302	AP202	N (µk20)	AH302	HN (µk10)
251-E	●	●	●	●	●	261-E	●		●	●	●

Porte-outils
Halter
Holders

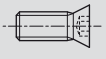
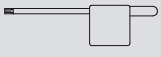
RFG

250RFG



R

A x B	L	L1	Art. N°
8x10	130	13	**250RFG-0810**
10x10	130	13	**250RFG-1010**
12x12	130	13	**250RFG-1212**
16x16	130	16	**250RFG-1616**

Pièces de rechange Ersatzteile Spare parts	Options
	
Art. N°	**Art. N°**
V-M4X9-T15	**C-T15**

Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

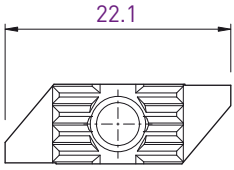
Jeder Halter wird mit einer oder mehreren Schrauben geliefert.
Die Schlüssel sind separat zu bestellen.

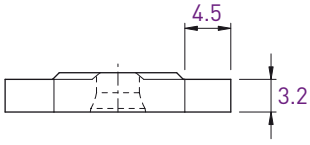
Each holder is supplied with one or more screws.
The keys must be ordered separately.

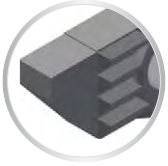
251RFG

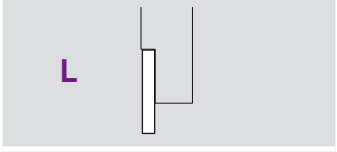
RFG

Plaquettes ébauches
WSP-Rohlinge
Blank inserts



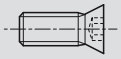
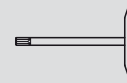






Art. N°	AP302	N (μk20)
251RFG-EP	●	●

Plaquette ébauche pour porte-outils axial RFG (p. 6.29)
WSP-Rohling für axialen Halter RFG (S. 6.29)
Blank insert for axial holder RFG (p. 6.29)

Porte-outils Halter Holders		Options 	 **Option** **Art. N°**	Recommandation de serrage Drehmoment Empfehlung Clamping recommendation
250-8 / 260-8	**V-M3.5X7.3-T15**			
250-... / 260-...				
260/250-...	**V-M4X9-T15**	**C-T15**	**SET-NM3.0-TX15**	3 Nm
250RFG				
250RC / 260-C	**V-M4X7.3-T15**			

TRIO-Line

APPLITEC
CUTTING TOOLS

Index

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Bezeichnungssystem
Designation system
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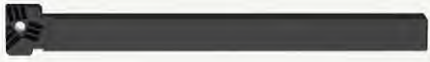
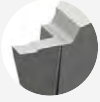
> 7.06

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data
> 7.07

Porte-outils
Halter
Holders

> 7.08

GX Plaquettes de gorge pour circlips
Einstechwendeplatte für Seegerring
Grooving inserts for retaining ring
DIN6799 & DIN471


> 7.09

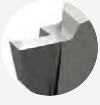
FT Tournage avant
Vorwärts drehen
Front turning

> 7.10

GT Fonçage-tournage
Einstechen und drehen
Grooving and turning

> 7.11

GTX Fonçage-tournage avec coupe positive
Einstechen und drehen mit positivem Spanwinkel
Grooving and turning with positive cut


> 7.12

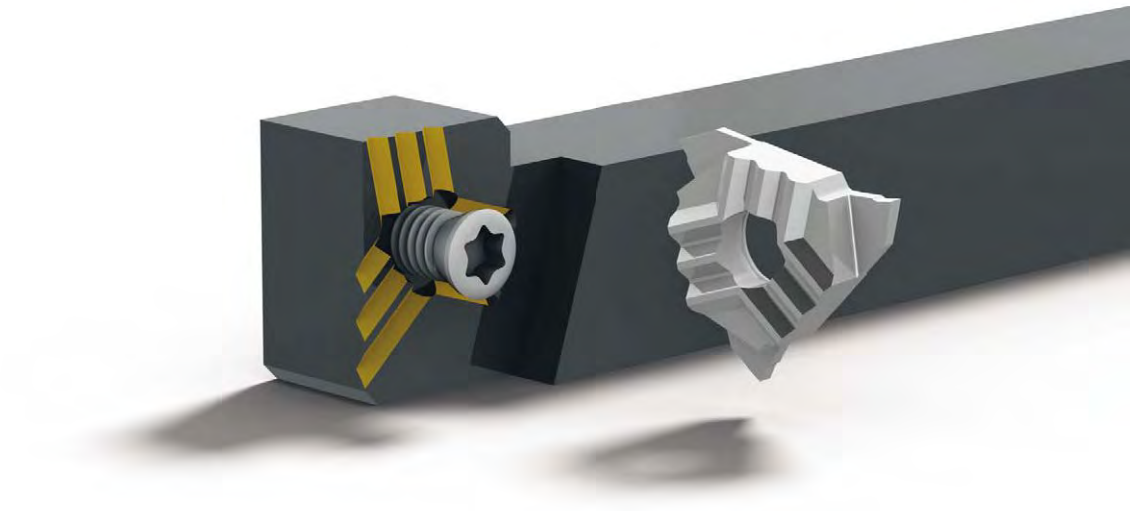
EP Plaquettes ébauches
WSP-Rohlinge
Blank inserts

> 7.13

Pièces de rechange et accessoires
Ersatzteile und Zubehöre
Spare parts and accessories

> 7.13

Rigid clamping system with the famous Applitec teeth clamping



Avantages Vorteile Advantages		
• dimensions spécifiques • système de serrage à denture à 1 vis • pour opération de faible profondeur • solution optimisée (proportion réduite de carbure pour un équilibre parfait entre coût et performance)	• spezifische Abmessungen • Spannsystem mit 1 Schraube • für geringe Tiefenbearbeitung • optimierte Lösung (reduzierte Hartmetallschicht für ein perfektes Gleichgewicht zwischen Kosten und Leistung)	• specific dimensions • clamping system with 1 screw • for shallow operation • optimized solution (reduced carbide layer for a perfect balance between cost and performance)

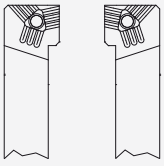
Codification des porte-outils
Kodifizierung für Halter
Coding guide for holders

T	2	1	6	–	H	0	8	1	0	R	–	90

Ou / Oder / Or

Porte-outils
Halter
Holders

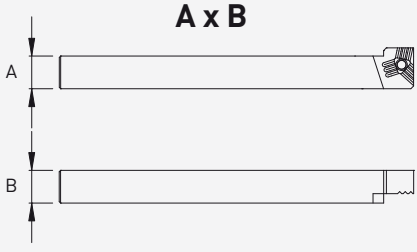
L **R**



Longueur
Länge
Length

A x B	L
8x10	115
10x10	130
12x12	130
16x16	120
20x20	130

A x B

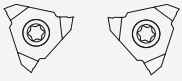


Applitec TRIO-Line	Système de serrage à denture avec 1 vis de fixation
Applitec TRIO-Line	Spannsystem mit Verzahnung mit 1 Spannschraube
Applitec TRIO-Line	Teeth clamping system with 1 screw

Codification des plaquettes
Kodifizierung für WSP
Coding guide for inserts

T	2	1	6	R	–	GX	026	–	HTA

L **R**

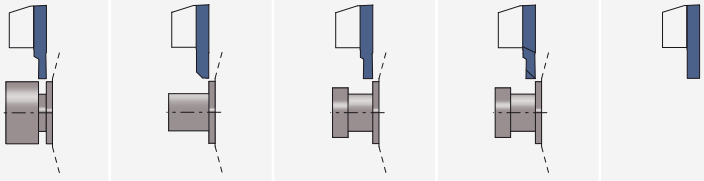


Nuance
Sorte
Grade

Épaisseur de coupe
Schnittbreite
Cutting thickness

Géométrie d'usinage
Bearbeitungsgeometrie
Machining geometry

GX	FT	GT	GTX	EP
Grooving	**Front turning**	**Grooving / turning**	**Grooving / turning positiv**	**Blank**



Applitec TRIO-Line	Système de serrage à denture avec 1 vis de fixation
Applitec TRIO-Line	Spannsystem mit Verzahnung mit 1 Spannschraube
Applitec TRIO-Line	Teeth clamping system with 1 screw

Nuances
Sorten
Grades

µK10

HN

K10

Non revêtu
Unbeschichtet
Uncoated

P ★☆☆☆☆
M ★☆☆☆☆
N ★★★☆☆
S ★★★☆☆

- nuance micro-grain très résistante à l'usure
- recommandé pour l'usinage du laiton, de l'aluminium et du titane faiblement allié
- pour pièces fragiles de très petits diamètres

- sehr verschleissfeste Feinkornsorte
- für die Bearbeitung von Messing und niedrig legiertem Aluminium und Titan empfehlenswert
- für empfindliche und sehr kleine Werkstücke

- very wear resistant micro-grain grade
- suitable for the machining of brass and low alloyed aluminium and titanium
- for fragile and very small work pieces

µK10

HTA

K10

µK10 + revêtement PVD
µK10 + PVD Beschichtung
µK10 + PVD coating

TF F **M** E

P ★★★★★
M ★★★★★
N ★★★★☆
S ★★★★☆

- nuance très résistante à l'usure
- pour l'usinage en finition dans des conditions favorables des aciers, aciers inoxydables et alliages de titane

- sehr verschleissfeste Sorte
- für die Feinbearbeitung von Stahl, rostfreiem Stahl und Titanlegierungen bei guten Bearbeitungsbedingungen

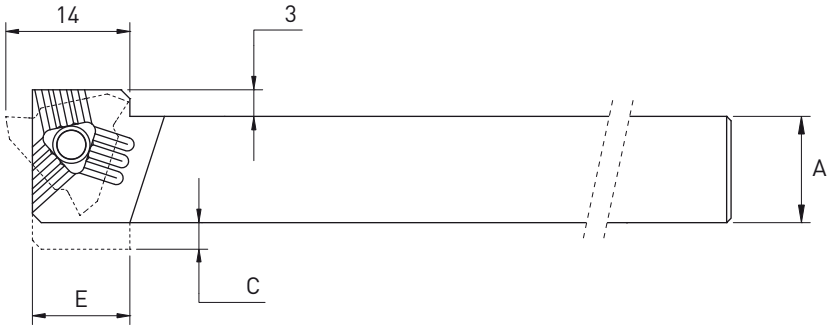
- very wear resistant grade
- for light machining of steel, stainless steel and titanium alloys under favourable machining conditions

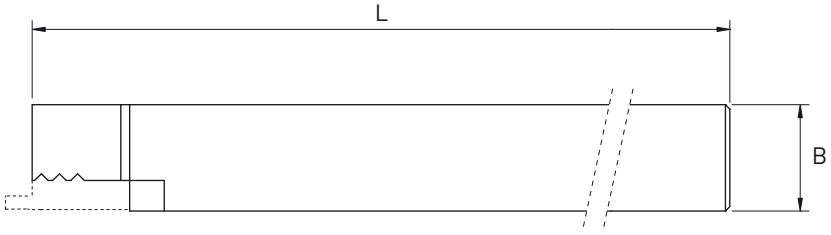
Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

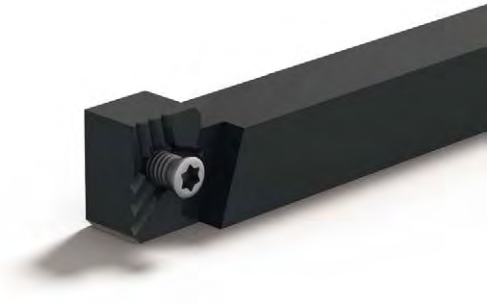
		FT GT GTX Tournage Drehen Turning		GX GT GTX Foncer Einstechen Grooving	
Matière **Werkstoff** **Material**		VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)
Acier de décolletage Automatenstahl Free-cutting steel	P	120 - 200	0.01 - 0.20	80 - 150	0.01 - 0.15
Acier Stahl < 600 N/mm² Steel	P	80 - 160	0.01 - 0.18	70 - 120	0.01 - 0.12
Acier Stahl < 800 N/mm² Steel	P	60 - 120	0.01 - 0.15	60 - 100	0.01 - 0.10
Acier Stahl > 800 N/mm² Steel	P	50 - 100	0.01 - 0.12	40 - 80	0.01 - 0.08
Acier inoxydable Rostfreistahl Stainless steel	M	60 - 120	0.01 - 0.15	60 - 100	0.01 - 0.08
Aluminium	N	180 - 800	0.01 - 0.30	150 - 300	0.01 - 0.20
Cuivre, laiton, bronze Kupfer, Messing, Bronze Copper, brass, bronze	N	100 - 500	0.01 - 0.30	100 - 300	0.01 - 0.20
Titane Titan Titanium	S	30 - 70	0.01 - 0.12	30 - 50	0.01 - 0.06

T216-L/R

Porte-outils
Halter
Holders







AxB	C	E	L	L Art. N°	R Art. N°
8x10	4	11	115	**T216-H0810L**	**T216-H0810R**
10x10	2	8	130	**T216-H1010L**	**T216-H1010R**
12x12	-	-	130	**T216-H1212L**	**T216-H1212R**
12x12	-	-	90	**T216-H1212L-90**	**T216-H1212R-90**
16x16	-	-	120	**T216-H1616L**	**T216-H1616R**
20x20	-	-	130	**T216-H2020L**	**T216-H2020R**

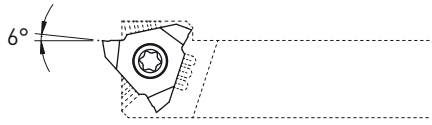
Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

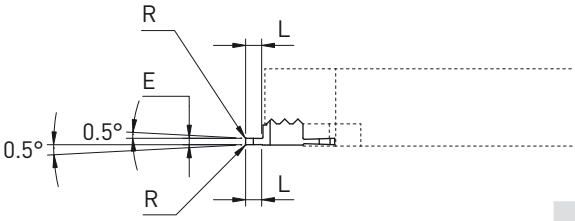
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.

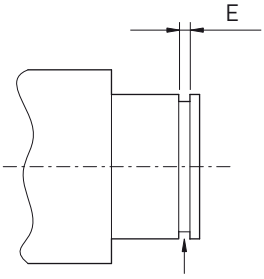
Each holder is supplied with one or more screws.
The keys must be ordered separately.

Plaquettes de gorge pour circlips
Einstechwendeplatte für Seegerring
Grooving inserts for retaining ring

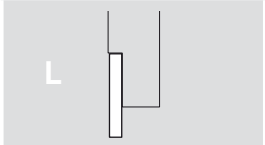
GX

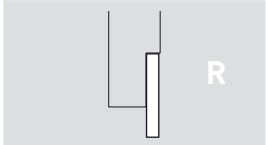






Selon DIN6799 et DIN471
Gemäss DIN6799 und DIN471
According to DIN6799 and DIN471

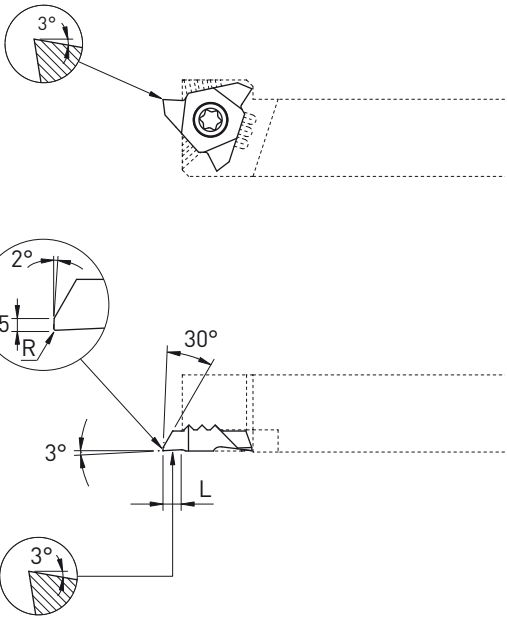


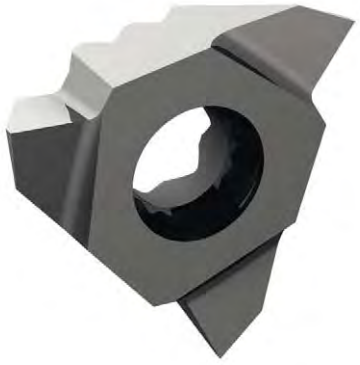


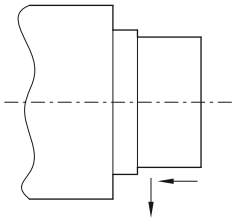
E ±0.01	L	R	Art. N°	P M N S	N S	Art. N°	P M N S	N S
				HTA	HN (µk10)		HTA	HN (µk10)
0.26	0.8	0.03	**T216L-GX026**	●	●	**T216R-GX026**	●	●
0.36	0.8	0.03	**T216L-GX036**	●	●	**T216R-GX036**	●	●
0.46	0.8	0.03	**T216L-GX046**	●	●	**T216R-GX046**	●	●
0.50	1.5	0.03	**T216L-GX050**	●	●	**T216R-GX050**	●	●
0.57	1.5	0.03	**T216L-GX057**	●	●	**T216R-GX057**	●	●
0.67	1.5	0.03	**T216L-GX067**	●	●	**T216R-GX067**	●	●
0.77	2.0	0.03	**T216L-GX077**	●	●	**T216R-GX077**	●	●
0.87	2.0	0.03	**T216L-GX087**	●	●	**T216R-GX087**	●	●
0.97	2.5	0.03	**T216L-GX097**	●	●	**T216R-GX097**	●	●
1.00	2.5	0.03	**T216L-GX100**	●	●	**T216R-GX100**	●	●
1.10	2.5	0.03	**T216L-GX110**	●	●	**T216R-GX110**	●	●
1.20	2.5	0.03	**T216L-GX120**	●	●	**T216R-GX120**	●	●
1.30	2.5	0.03	**T216L-GX130**	●	●	**T216R-GX130**	●	●
1.50	2.5	0.03	**T216L-GX150**	●	●	**T216R-GX150**	●	●
1.60	2.5	0.03	**T216L-GX160**	●	●	**T216R-GX160**	●	●
1.85	2.5	0.03	**T216L-GX185**	●	●	**T216R-GX185**	●	●
2.00	2.5	0.03	**T216L-GX200**	●	●	**T216R-GX200**	●	●
2.50	2.5	0.03	**T216L-GX250**	●	●	**T216R-GX250**	●	●

FT

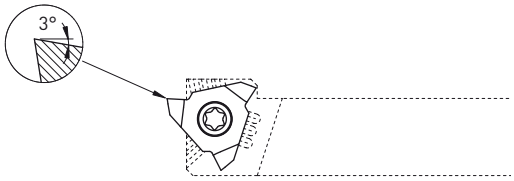
Tournage avant
Vorwärts drehen
Front turning

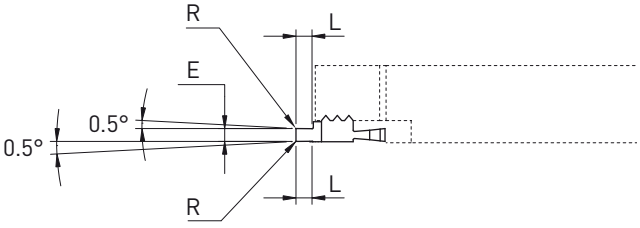


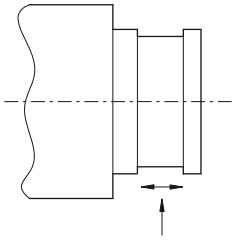




		L				R		
L	R	Art. N°	P M N S	HTA	N S	Art. N°	P M N S	HN (µk10)
3.0	0.03	**T216L-FT**		●	●	**T216R-FT**		●
3.0	0.08	**T216L-FT-R08**		●	●	**T216R-FT-R08**		●



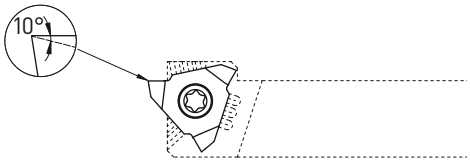


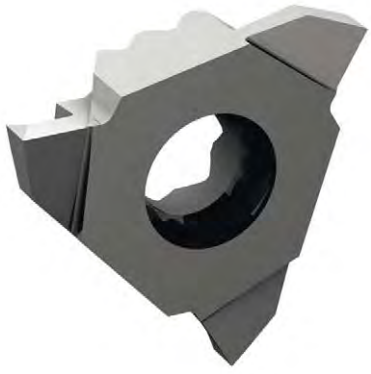


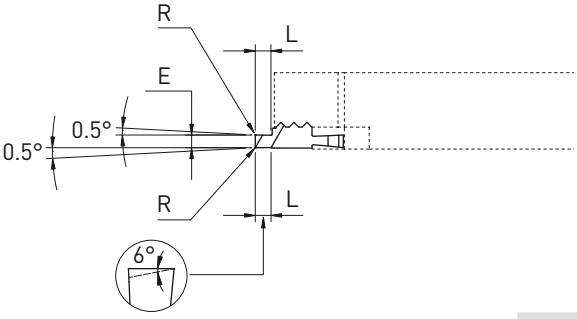
			L			R		
E	L	R	Art. N°	HTA	HN (µk10)	Art. N°	HTA	HN (µk10)
0.5	1.5	0.03	**T216L-GT050**	●	●	**T216R-GT050**	●	●
1.0	2.5	0.03	**T216L-GT100**	●	●	**T216R-GT100**	●	●
1.0	2.5	0.08	**T216L-GT100-R08**	●	●	**T216R-GT100-R08**	●	●
1.5	2.5	0.03	**T216L-GT150**	●	●	**T216R-GT150**	●	●
1.5	2.5	0.08	**T216L-GT150-R08**	●	●	**T216R-GT150-R08**	●	●
1.5	2.5	0.15	**T216L-GT150-R15**	●	●	**T216R-GT150-R15**	●	●
2.0	2.5	0.03	**T216L-GT200**	●	●	**T216R-GT200**	●	●
2.0	2.5	0.08	**T216L-GT200-R08**	●	●	**T216R-GT200-R08**	●	●
2.0	2.5	0.15	**T216L-GT200-R15**	●	●	**T216R-GT200-R15**	●	●
2.5	2.5	0.15	**T216L-GT250-R15**	●	●	**T216R-GT250-R15**	●	●

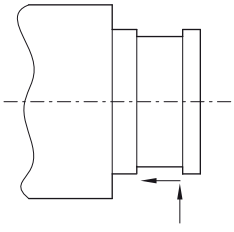
GTX

Fonçage-tournage avec coupe positive
Einstechen und drehen mit positivem Spanwinkel
Grooving and turning with positive cut





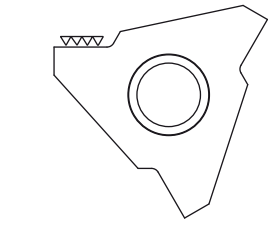




			L			R		
E	L	R	Art. N°	HTA	HN (µk10)	Art. N°	HTA	HN (µk10)
1.0	2.5	0.03	**T216L-GTX100**	●	●	**T216R-GTX100**	●	●
1.0	2.5	0.08	**T216L-GTX100-R08**	●	●	**T216R-GTX100-R08**	●	●
1.5	2.5	0.03	**T216L-GTX150**	●	●	**T216R-GTX150**	●	●
1.5	2.5	0.08	**T216L-GTX150-R08**	●	●	**T216R-GTX150-R08**	●	●
1.5	2.5	0.15	**T216L-GTX150-R15**	●	●	**T216R-GTX150-R15**	●	●
2.0	2.5	0.03	**T216L-GTX200**	●	●	**T216R-GTX200**	●	●
2.0	2.5	0.08	**T216L-GTX200-R08**	●	●	**T216R-GTX200-R08**	●	●
2.0	2.5	0.15	**T216L-GTX200-R15**	●	●	**T216R-GTX200-R15**	●	●
2.5	2.5	0.15	**T216L-GTX250-R15**	●	●	**T216R-GTX250-R15**	●	●

Plaquettes ébauches
WSP-Rohlinge
Blank inserts

EP



		L			R		
E	L	Art. N°	HTA	HN (µk10)	Art. N°	HTA	HN (µk10)
~3	3	**T216L-EP**	●		**T216R-EP**		●

Pièces de rechange et accessoires
Ersatzteile und Zubehöre
Spare parts and accessories

Porte-outils Halter Holders		Options	
T216-H...	**V-M4X9-T15**	**C-T15**	**SET-NM3.0-TX15**

Recommandation de serrage
Drehmoment Empfehlung
Clamping recommendation
3.0 Nm

TURN-Line

APPLITEC
CUTTING TOOLS

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Kodifizierung
Coding guide
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Infos und Vorteile
Infos and advantages
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Application recommendations
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> 8.07

Paramètres de coupe indicatifs
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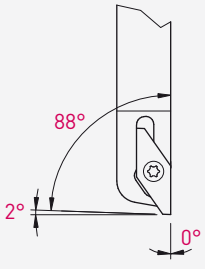
> 8.11

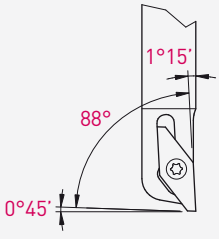
88°

Tournage avant
Vorwärts drehen
Front turning

310 / 320



310-BC / 320-BC

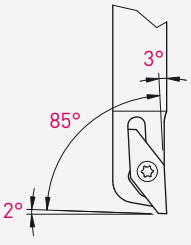


> 8.12

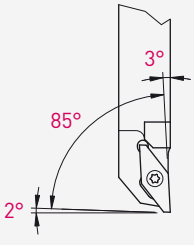
85°

Tournage avant
Vorwärts drehen
Front turning

330 / 340



340-JET



> 8.16

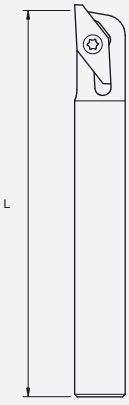
Codification des porte-outils
Kodifizierung für Halter
Coding guide for holders

3	2	0	-	12	-	90	-	JET / BC

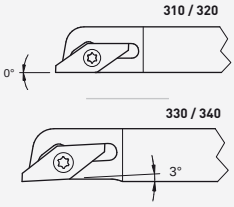
Ou / Oder / Or

Porte-outil
Halter
Holders

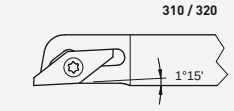
Longueur
Länge
Length



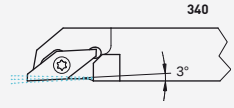
A x B



BC



JET



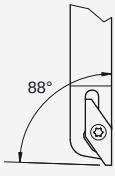
Gamme de produit **Produktserie** **Product series**	définit la compatibilité des plaquettes avec le porte-outil bestimmt die WSP und Halter Kompatibilität shows the inserts and holder compatibility

L = 1, 3 (chiffre impair / ungerade Zahl / uneven number)

R = 2, 4 (chiffre pair / gerade Zahl / even number)

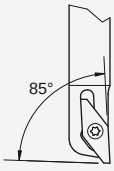
L	R
310	320

pour machine à cames
für kurvengesteuerte Maschinen
for cam driven machines



L	R
330	340

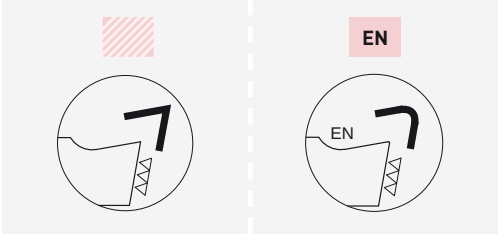
main series



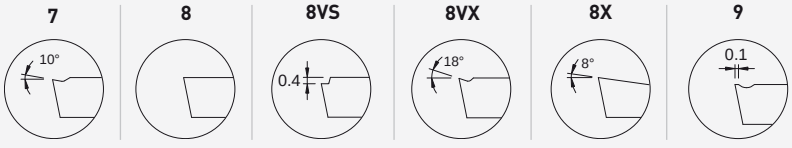
Applitec série 300	Système de serrage à 3 points de contact
Applitec 300 Serie	Spannsystem mit 3 Kontaktpunkten
Applitec 300 series	Three-point clamping system

Codification des plaquettes
Kodifizierung für WSP
Coding guide for inserts

3	4	7	-	EN	-	R10	-	TIALX
				Ou / Oder / Or				
						Rayon **Radius** **Radius**		**Nuance** **Sorte** **Grade**



Géométrie de coupe **Schneidgeometrie** **Cutting geometry**	brise-copeau Spanbrecher chip breaker	particularités Sondereigenschaften special features

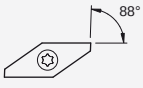


Gamme de produit **Produktserie** **Product series**	définit la compatibilité des plaquettes avec le porte-outil bestimmt die WSP und Halter Kompatibilität shows the inserts and holder compatibility

L = 1, 3 (chiffre impair / ungerade Zahl / uneven number)
R = 2, 4 (chiffre pair / gerade Zahl / even number)

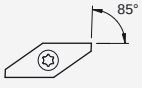
L	R
310	320

pour machine à cames
für kurvengesteuerte Maschinen
for cam driven machines



L	R
330	340

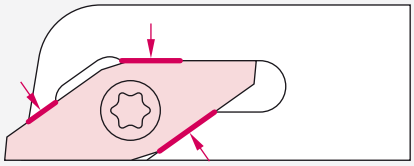
main series



Applitec série 300	Système de serrage à 3 points de contact
Applitec 300 Serie	Spannsystem mit 3 Kontaktpunkten
Applitec 300 series	Three-point clamping system

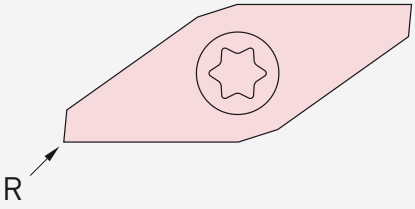
3 contact points

Pour de meilleures performances
Für bessere Leistung
For better performance



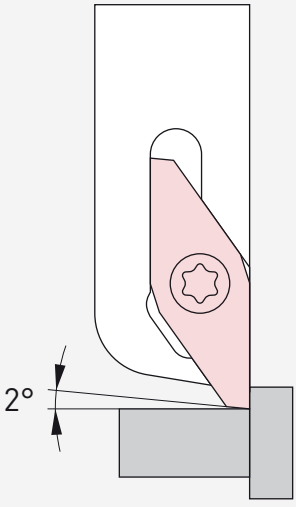
R min = 0

Disponible avec et sans rayon
Verfügbar mit und ohne Radius
Available with and without radius



Wiper effect

Pour un meilleur état de surface
Für eine bessere Oberflächengüte
For a better surface finish



Conseils d'utilisation
Anwendungsempfehlungen
Application recommendations

Géométries de coupe Spanformgeometrien Cutting geometry		P Acier de décolletage Automatenstahl Free-cutting steel	P Acier Stahl Steel	M Acier inoxydable Rostfreistahl Stainless steel	N Aluminium	N Laiton, bronze Messing, Bronze Brass, bronze	N Cuivre Kupfer Copper	S Titane Titane Titanium	
									★ 1er choix 1. Wahl 1st choice
									☆ Recommandé Empfohlen Recommended
									✓ Pour pièces fragiles de très petits diamètres Für zerbrechliche Teile mit sehr kleinen Durchmessern For fragile and very small work pieces
	3_7	★	★	★	★		★	☆	Géométrie universelle, très bonne maîtrise du copeau Allgemeine Geometrie, sehr gute Spankontrolle All-round insert with efficient chip control
	3_7-EN	☆	★	☆					Arête renforcée (augmente l'effort de coupe) Verstärkte Schneidkante (Schneidkrafterhöhung) Reinforced cutting edge (increases cutting force) f min : 0.02 mm/U
	3_8	✓	✓	✓		★			Géométrie plate classique Standard flache Geometrie Standard flat geometry
	3_8VS	☆		☆	✓		✓	✓	Brise-copeau pour usinage léger en finition Spanbrecher für leichte Schlichtbearbeitung Chip-breaker for light finishing operation
	3_8VX	★	★	★	★		★	★	Très bonne maîtrise du copeau Sehr gute Spankontrolle Very efficient chip control
	3_8X	★	★	★	☆		☆	★	Coupe positive traditionnelle Standard positive Geometrie Standard positive geometry
	3_9	☆	☆	☆		☆			Témoin plat sur la coupe pour réduire les vibrations Vibrationsreduzierung durch einer Flachfase und der Schneidkante Vibration reduction through flat ended cutting edge

µK20

TiAlN

K20

µK20 + revêtement PVD
µK20 + PVD Beschichtung
µK20 + PVD coating

TF — F — **M** — E

P	★★★★★
M	★★★★★
N	★★★★☆
S	★★★★☆

- excellente nuance universelle
- 1er choix pour l'usinage des aciers, aciers inoxydables et alliages de titane
- très bonne résistance à la température

- beste Universalsorte
- erste Wahl für die Bearbeitung von Stahl, rostfreien Stähle und Titanlegierungen
- sehr gute Warmfestigkeit

- best universal grade
- first choice for steel, stainless steel and titanium alloys machining
- very good heat resistance

µK20

TiAlX

K20

µK20 + revêtement PVD
µK20 + PVD Beschichtung
µK20 + PVD coating

TF — **F** — M — E

P	★★★★☆
M	★★★★★
N	★☆☆☆☆
S	★★★★★

- nuance très résistante à l'usure et à la température, recommandée pour l'usinage des matières suivantes : inox 304, 316L, 317L, 904, Phynox
- aciers alliés contenant : chrome nickel, vanadium, molybdène, ...

- sehr verschleissfeste und temperaturbeständige Sorte, für folgende Materialien empfohlen : Inox 304, 316L, 317L, 904, Phynox
- legierter Stahl enthaltend : Chrom-Nickel, Vanadium, Molybdän, ...

- very wear and high temperature resistant grade, recommended for following material : Inox 304, 316L, 317L, 904, Phynox
- alloy steel containing : Chrome-nickel, Vanadium, Molybdenum, ...

µK20

ST

K20

µK20 + revêtement PVD
µK20 + PVD Beschichtung
µK20 + PVD coating

TF — F — **M** — E

P	★★★★★
M	★★★★★
N	★★★★☆
S	★★★★☆

- nuance résistante à la température, destinée à l'usinage des matières suivantes : Inox, titane allié, alliages à base de nickel, chrome cobalt, les matières avec une dureté supérieure à > 50 HRC

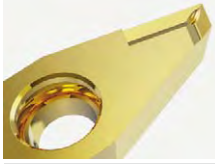
- verschleissfeste und temperaturbeständige Sorte, für folgende Materialien empfohlen : Inox, legiertes Titan, Nickellegierungen, Chrom-Kobalt, Materialien härter als > 50 HRC

- wear and temperature-resistant grade, recommended for following materials : Inox, titanium alloys, nickel-based alloys, chrome-cobalt, and materials harder than > 50 HRC

Nuances
Sorten
Grades

µK20

TiN



K20

µK20 + revêtement PVD
µK20 + PVD Beschichtung
µK20 + PVD coating

TF F **M** E

P ★★★★☆
M ★★★★☆
N ★★★☆☆
S ☆☆☆☆☆

- nuance pour l'usinage des matières peu résistantes qui créent des arêtes rapportées
- très faible coefficient de frottement
- à éviter pour l'usinage du titane

- Sorte für die Bearbeitung von weichen Werkstoffen mit Tendenz zur Bildung von Aufbauschneiden
- sehr geringer Reibwert
- bei der Bearbeitung von Titan zu vermeiden

- grade for the machining of low resistance materials which causes edge build-up
- very low friction ratio
- not suitable for titanium machining

µK20

N

K20

Non revêtu
Unbeschichtet
Uncoated

P ★☆☆☆☆
M ★☆☆☆☆
N ★★★☆☆
S ★★★☆☆

- supporte les coupes interrompues et autres conditions d'usinage défavorables

- für unterbrochene Schnitte und andere ungünstige Bearbeitungsbedingungen geeignet

- suitable for interrupted cut and other unfavourable machining conditions

µK10

HTA

K10

µK10 + revêtement PVD
µK10 + PVD Beschichtung
µK10 + PVD coating

TF F **M** E

P ★★★★★
M ★★★★★
N ★★★★☆
S ★★★★☆

- nuance très résistante à l'usure
- pour l'usinage en finition dans des conditions favorables des aciers, aciers inoxydables et alliages de titane

- sehr verschleissfeste Sorte
- für die Feinbearbeitung von Stähle, rostfreien Stähle und Titanlegierungen bei guten Bearbeitungsbedingungen

- very wear resistant grade
- for light machining of steel, stainless steel and titanium alloys under favourable machining conditions

µK10

HTAX

K10

µK10 + revêtement PVD
µK10 + PVD Beschichtung
µK10 + PVD coating

TF **F** M E

P ★★★★☆
M ★★★★★
N ★☆☆☆☆
S ★★★★★

- nuance très résistante à l'usure et à la température, pour l'usinage en finition avec faible avance de petites pièces. Recommandée pour l'usinage des matières suivantes : inox 304, 316L, 317L, 904, Phynox
- aciers alliés contenant : chrome nickel, vanadium, molybdène, ...

- sehr verschleissfeste und temperaturbeständige Sorte, für Feinbearbeitung von kleinen Teilen mit geringer Vorschub. Für folgende Materialien empfohlen : Inox 304, 316L, 317L, 904, Phynox
- legierter Stahl enthaltend : Chrom-Nickel, Vanadium, Molybdän, ...

- very wear and high temperature resistant grade, for light machining of small parts with low cutting feed. Recommended for following material : Inox 304, 316L, 317L, 904, Phynox
- alloy steel containing : Chromenickel, Vanadium, Molybdenum, ...

µK10

HST

K10

µK10 + revêtement PVD
µK10 + PVD Beschichtung
µK10 + PVD coating

TF F **M** E

P ★★★★★
M ★★★★★
N ★★★★☆
S ★★★★☆

- nuance résistante à la température et à l'usure pour des opérations de finition
- recommandé pour l'usinage des matières suivantes : Inox, titane allié, alliages à base de nickel, chrome cobalt, les matières avec une dureté supérieure à > 50 HRC

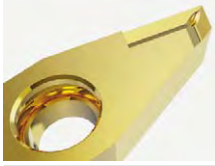
- verschleissfeste und temperaturbeständige Sorte für Feinbearbeitungen
- für folgende Materialien empfohlen : Inox, legiertes Titan, Nickellegierungen, Chrom-Kobalt, Materialien härter als > 50 HRC

- wear- and temperature-resistant grade for finishing operations
- recommended for the following materials : Inox, titanium alloys, nickel-based alloys, chrome-cobalt, and materials harder than > 50 HRC

Nuances
Sorten
Grades

µK10

HTiN



K10

µK10 + revêtement PVD
µK10 + PVD Beschichtung
µK10 + PVD coating

TF F **M** E

P ★★★★☆
M ★★★★☆
N ★★★☆☆
S ☆☆☆☆☆

- nuance pour l'usinage en finition des matières peu résistantes qui créent des arêtes rapportées
- très faible coefficient de frottement
- à éviter pour l'usinage du titane

- Sorte für die Feinbearbeitung von weichen Werkstoffen mit Tendenz zur Bildung von Aufbauschneiden
- sehr geringer Reibwert
- für die Bearbeitung von Titan nicht geeignet

- grade for light machining of low resistance materials which causes edge build-up
- very low friction ratio
- not suitable for titanium machining

µK10

HN

K10

Non revêtu
Unbeschichtet
Uncoated

P ★☆☆☆☆
M ★☆☆☆☆
N ★★★☆☆
S ★★★☆☆

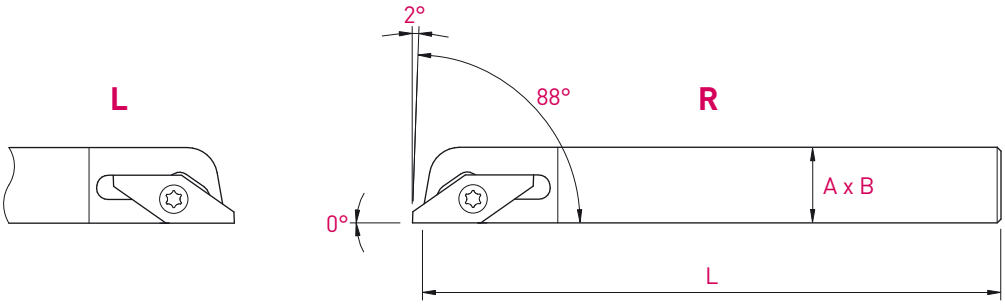
- nuance micro-grain très résistante à l'usure
- recommandé pour l'usinage du titane faiblement allié
- déconseillé en cas de coupe interrompue et autres conditions d'usinage défavorables

- verschleissfeste Feinkornsorte
- für die Bearbeitung von niedrig legiertem Titan empfehlenswert
- für unterbrochene Schnitte und andere ungünstige Bearbeitungsbedingungen nicht geeignet

- wear resistant micro-grain grade
- suitable for the machining of low alloyed titanium
- not suitable for interrupted cut and other unfavourable machining conditions

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

Matière Werkstoff Material			Tournage Drehen Turning VC (m/min)	Prof. de passe Schnitttiefe Depth of cut (mm)	Avance Vorschub Feed (mm/U)
Acier de décolletage Automatenstahl Free-cutting steel		P	120 - 200	0.05 - 1.0 1.0 - 4.0	0.01 - 0.15 0.05 - 0.25
Acier Stahl Steel	< 600 N/mm²	P	80 - 160	0.05 - 1.0 1.0 - 4.0	0.01 - 0.15 0.05 - 0.25
Acier Stahl Steel	< 800 N/mm²	P	60 - 120	0.05 - 1.0 1.0 - 4.0	0.01 - 0.10 0.05 - 0.20
Acier Stahl Steel	> 800 N/mm²	P	50 - 100	0.05 - 1.0 1.0 - 3.0	0.01 - 0.08 0.05 - 0.15
Acier inoxydable Rostfreistahl Stainless steel		M	60 - 120	0.05 - 1.0 1.0 - 3.0	0.01 - 0.08 0.05 - 0.15
Aluminium Si <12%		N	200 - 1000	0.05 - 1.0 1.0 - 4.0	0.01 - 0.20 0.05 - 0.40
Aluminium Si >12%		N	180 - 800	0.05 - 1.0 1.0 - 4.0	0.01 - 0.20 0.05 - 0.40
Cuivre, laiton, bronze Kupfer, Messing, Bronze Copper, brass, bronze		N	100 - 500	0.05 - 1.0 1.0 - 4.0	0.01 - 0.20 0.05 - 0.35
Titane Titan Titanium		S	30 - 70	0.05 - 1.0 1.0 - 4.0	0.01 - 0.08 0.05 - 0.15



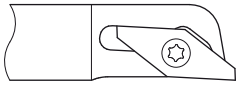
A x B	L	L Art. N°	R Art. N°
7 x 7	115	**310-7**	**320-7**
8 x 8	115	**310-8**	**320-8**
10 x 10	115	**310-10**	**320-10**
10 x 10	140	**-**	**320-10-140**
12 x 12	115	**310-12**	**320-12**
12 x 12	90	**310-12-90**	**320-12-90**
12 x 12	140	**310-12-140**	**320-12-140**
12.7 x 12.7	140	**310-12.7**	**320-12.7**
16 x 16	100	**310-16**	**320-16**
16 x 16	140	**310-16-140**	**320-16-140**
20 x 20	120	**310-20**	**320-20**

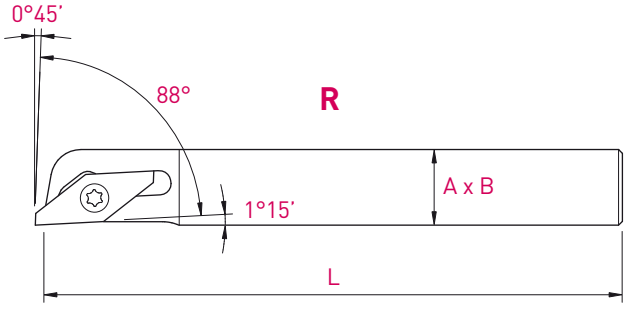
Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

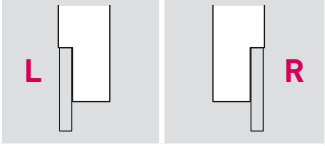
Porte-outils
Halter
Holders

88°

310-BC / 320-BC







A x B	L	Art. N°	Art. N°
7 x 7	115	**310-7-BC**	**320-7-BC**
8 x 8	115	**310-8-BC**	**320-8-BC**
10 x 10	115	**310-10-BC**	**320-10-BC**
10 x 10	140	**-**	**320-10-140-BC**
12 x 12	115	**310-12-BC**	**320-12-BC**
12 x 12	90	**310-12-90-BC**	**320-12-90-BC**
12 x 12	140	**310-12-140-BC**	**320-12-140-BC**
12.7 x 12.7	140	**310-12.7-BC**	**320-12.7-BC**
16 x 16	100	**310-16-BC**	**320-16-BC**
16 x 16	140	**310-16-140-BC**	**320-16-140-BC**
20 x 20	120	**310-20-BC**	**320-20-BC**

Porte-outils Halter Holders	Serrage standard (A) Standard Spannsystem (A) Standard clamping system (A)	Option
310-7 / 320-7	**V-M2.5X6.5-T8**	**C-T8**
310-8 - 310-20	**V-M2.5X7.8-T8**	
320-8 - 320-20		

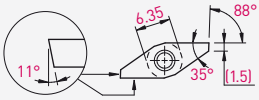
Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

Jeder Halter wird mit einer oder mehreren Schrauben geliefert.
Die Schlüssel sind separat zu bestellen.

Each holder is supplied with one or more screws.
The keys must be ordered separately.

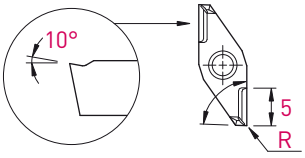
310 / 320

88°



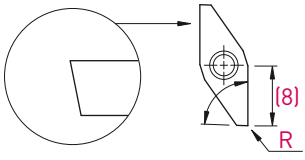
Tournage avant
Vorwärts drehen
Front turning

317 / 327



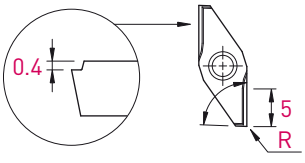
R	L Art. N°	TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)	R Art. N°	TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)
0	317	●	●	●	●	●	●	327	●	●	●	●	●	●
0.03	317-R03	●	●	●	●	●	●	327-R03	●	●	●	●	●	●
0.08	317-R08	●	●	●	●	●	●	327-R08	●	●	●	●	●	●
0.10	317-R10	●	●	●	●	●	●	327-R10	●	●	●	●	●	●
0.20	317-R20	●	●	●	●	●	●	327-R20	●	●	●	●	●	●

318 / 328



R	L Art. N°	HTA	HTiN	HN (µK10)	R Art. N°	HTA	HTiN	HN (µK10)
0	318	●	●	●	328	●	●	●
0.05	318-R05	●	●	●	328-R05	●	●	●
0.10	318-R10	●	●	●	328-R10	●	●	●
0.20	318-R20	●	●	●	328-R20	●	●	●
0.40	318-R40	●	●	●	328-R40	●	●	●

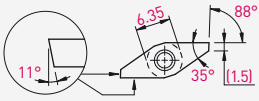
318VS / 328VS



R	L Art. N°	HTA	HTiN	HN (µK10)	R Art. N°	HTA	HTiN	HN (µK10)
0	318VS	●	●	●	328VS	●	●	●
0.10	318VS-R10	●	●	●	328VS-R10	●	●	●

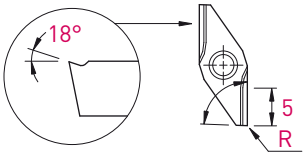
Tournage avant
Vorwärts drehen
Front turning

88°



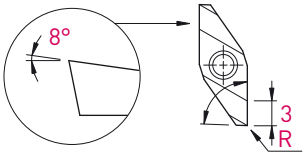
310 / 320

318VX / 328VX



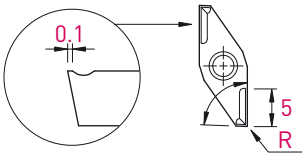
R	L Art. N°	HTA	HTiN	HN (µk10)	R Art. N°	HTA	HTiN	HN (µk10)
0	318VX	●	●	●	328VX	●	●	●
0.05	318VX-R05	●	●	●	328VX-R05	●	●	●
0.10	318VX-R10	●	●	●	328VX-R10	●	●	●
0.20	-				328VX-R20	●	●	●
0.40	-				328VX-R40	●		●

318X / 328X



R	L Art. N°	HTA	HTiN	HN (µk10)	R Art. N°	HTA	HTiN	HN (µk10)
0	318X	●	●	●	328X	●	●	●
0.10	318X-R10	●	●	●	328X-R10	●	●	●

319 / 329

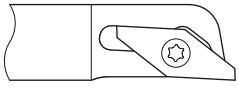


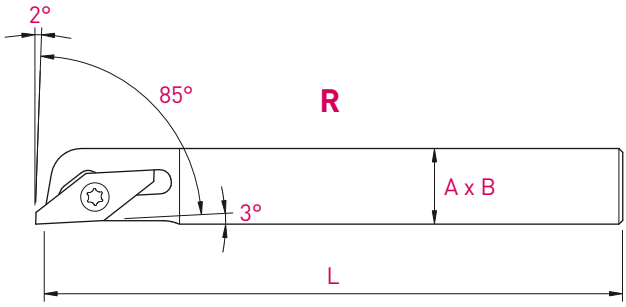
R	L Art. N°	HTA	HTiN	HN (µk10)	R Art. N°	HTA	HTiN	HN (µk10)
0	319	●	●	●	329	●	●	●
0.10	319-R10	●	●	●	329-R10	●	●	●
0.20	319-R20	●	●	●	329-R20	●	●	●

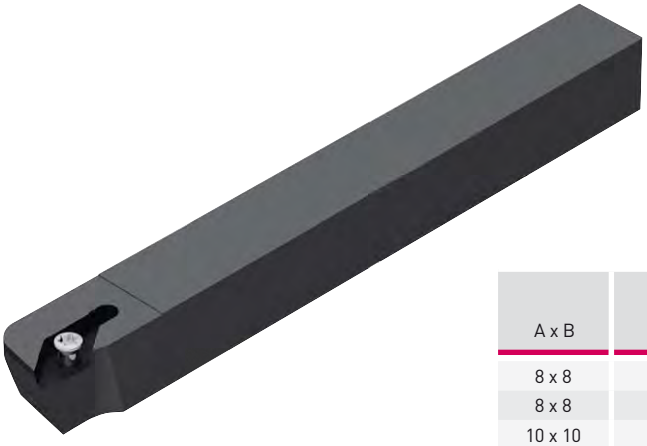
330 / 340

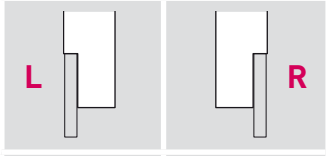
85°

Porte-outils
Halter
Holders









A x B	L	Art. N°	Art. N°
8 x 8	90	-	**340-8-90**
8 x 8	115	**330-8**	**340-8**
10 x 10	115	**330-10**	**340-10**
10 x 10	140	-	**340-10-140**
12 x 12	115	**330-12**	**340-12**
12 x 12	90	**330-12-90**	**340-12-90**
12 x 12	140	**330-12-140**	**340-12-140**
12.7 x 12.7	140	**330-12.7**	**340-12.7**
16 x 16	100	**330-16**	**340-16**
16 x 16	140	**330-16-140**	**340-16-140**
20 x 20	120	**330-20**	**340-20**

Porte-outils Halter Holders	Serrage standard (A) Standard Spannsystem (A) Standard clamping system (A)	Option
330	**V-M2.5X7.8-T8**	**C-T8**
340		

Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

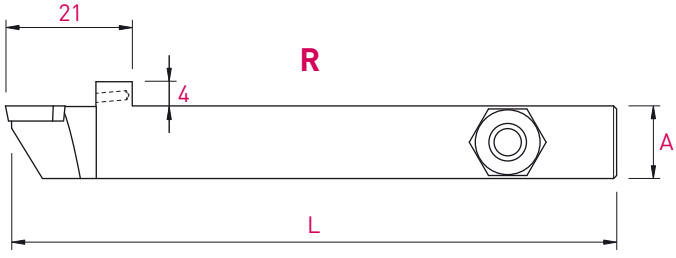
Jeder Halter wird mit einer oder mehreren Schrauben geliefert.
Die Schlüssel sind separat zu bestellen.

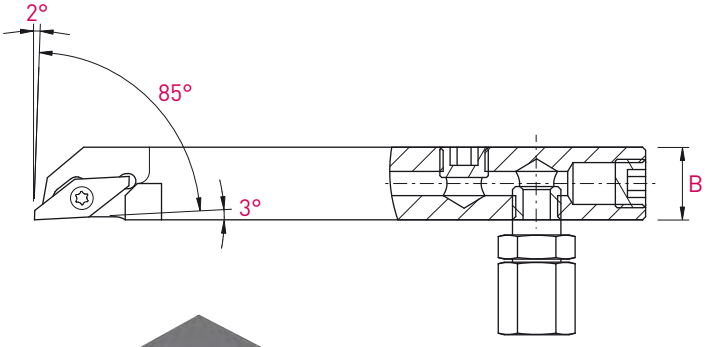
Each holder is supplied with one or more screws.
The keys must be ordered separately.

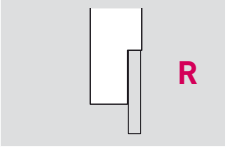
Porte-outils avec arrosage intégré
Halter mit integrierter Kühlmittelzufuhr
Holders with integrated coolant supply

85°

340-JET







A x B	L	Art. N°
8 x 10	100	**340-0810-JET**
10 x 12	100	**340-1012-JET**
12 x 12	100	**340-12-JET**
12.7 x 12.7	100	**340-12.7-JET**
16 x 16	100	**340-16-JET**
20 x 20	100	**340-20-JET**

Chaque support est livré avec une ou plusieurs vis.
Les clés sont à commander séparément.

Jeder Halter wird mit einer oder mehreren Schrauben geliefert.
Die Schlüssel sind separat zu bestellen.

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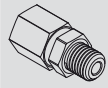
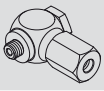
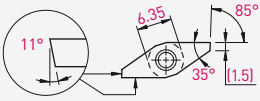
The keys must be ordered separately.

Pièces de rechange Ersatzteile Spare parts		Option 	
	Art. N°	**Art. N°**	**Art. N°**
340-0810-JET	**J-M5-D5**	**JC-M5-D5**	**JB-M5**
340-JET	**J-M8X1-D6**	**–**	**JB-M8X1**

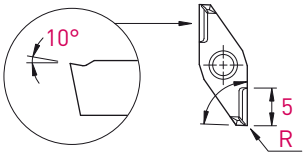
330 / 340

85°



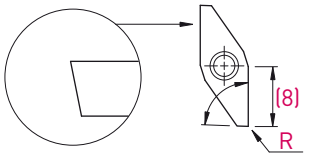
Tournage avant
Vorwärts drehen
Front turning

337 / 347



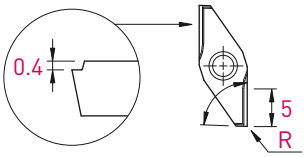
R	L Art. N°	P M N S TiAlN	P M N S TiAlX	P M N TiN	P N S N (µK20)	P M N S HTA	P M N S HTAX	P M N HTiN	P N S HN (µK10)	R Art. N°	P M N S ST	P M N S TiAlN	P M N S TiAlX	P M N TiN	P N S N (µK20)	P M N S HST	P M N S HTA	P M N S HTAX	P M N HTiN	P N S HN (µK10)
0	337	●		●	●	●		●	●	347	●	●	●	●	●	●	●	●	●	●
0.03	337-R03	●		●	●	●		●	●	347-R03	●	●	●	●	●	●	●	●	●	●
0.08	337-R08	●		●	●	●		●	●	347-R08	●	●	●	●	●	●	●	●	●	●
0.10	337-R10	●		●	●	●		●	●	347-R10	●	●	●	●	●	●	●	●	●	●
0.20	337-R20	●		●	●	●		●	●	347-R20	●	●	●	●	●	●	●	●	●	●
0.35	-									347-R35	●	●	●	●	●	●	●	●	●	●
0	337-EN	●		●	●					347-EN	●	●	●	●	●	●	●	●		●
0.03	337-EN-R03	●			●	●			●	347-EN-R03	●	●	●		●	●	●	●		●
0.08	337-EN-R08	●			●					347-EN-R08	●	●	●	●	●	●	●	●		●
0.10	337-EN-R10	●		●	●					347-EN-R10	●	●	●	●	●	●	●	●		●
0.20	337-EN-R20	●			●					347-EN-R20	●	●	●	●	●	●	●	●		●
0.35	-									347-EN-R35	●		●	●	●	●	●	●		●

338 / 348



R	L Art. N°	P M N S HTA	P M N HTiN	P N S HN (µK10)	R Art. N°	P M N S HTA	P M N HTiN	P N S HN (µK10)
0	338	●	●	●	348	●	●	●
0.05	338-R05	●	●	●	348-R05	●	●	●
0.10	338-R10	●	●	●	348-R10	●	●	●
0.20	338-R20	●	●	●	348-R20	●	●	●
0.40	338-R40	●	●	●	348-R40	●	●	●

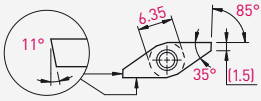
338VS / 348VS



R	L Art. N°	P M N S HTA	P M N HTiN	P N S HN (µK10)	R Art. N°	P M N S HTA	P M N HTiN	P N S HN (µK10)
0	338VS	●	●	●	348VS	●	●	●
0.10	338VS-R10	●	●	●	348VS-R10	●	●	●

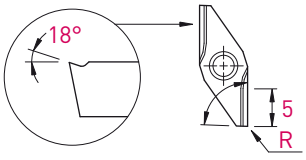
Tournage avant
Vorwärts drehen
Front turning

85°



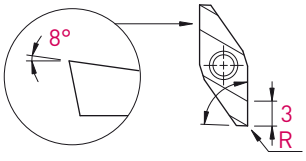
330 / 340

338VX / 348VX



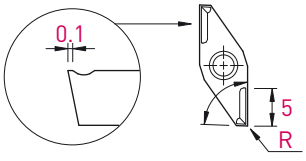
R	L Art. N°	HTA	HTiN	HN (µk10)	R Art. N°	HTA	HTiN	HN (µk10)
0	338VX	●	●	●	348VX	●	●	●
0.05	338VX-R05	●	●	●	348VX-R05	●	●	●
0.10	338VX-R10	●	●	●	348VX-R10	●	●	●

338X / 348X



R	L Art. N°	HTA	HTiN	HN (µk10)	R Art. N°	HTA	HTiN	HN (µk10)
0	338X	●	●	●	348X	●	●	●
0.10	338X-R10	●	●	●	348X-R10	●	●	●

339 / 349



R	L Art. N°	HTA	HTiN	HN (µk10)	R Art. N°	HTA	HTiN	HN (µk10)
0	339	●	●	●	349	●	●	●
0.10	339-R10	●	●	●	349-R10	●	●	●
0.20	339-R20	●	●	●	349-R20	●	●	●

ISO-Line

APPLITEC
CUTTING TOOLS

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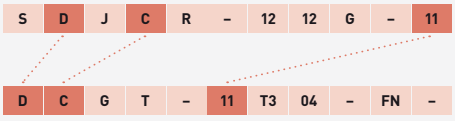

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Conseils d'utilisation
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Sorten
Grades

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Paramètres de coupe indicatifs
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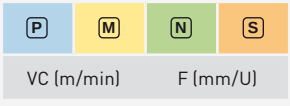
Standard machining data



> 9.16

80°

Porte-outils
Halter
Holders

> 9.20

Plaquettes
WSP
Inserts

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55°

Porte-outils
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Holders

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Plaquettes
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Inserts

> 9.45

35°

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Halter
Holders

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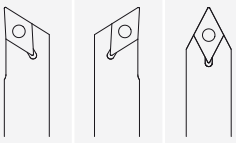
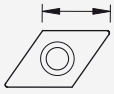
Codification
Kodifizierung
Coding guide

Méthode de serrage Klemmsystem Clamping system	Forme de la plaquette Plattenform Insert shape	Géométrie du porte-outil Halterform Holder geometry	Angle de dépouille de la plaquette WSP-Freiwinkel Insert clearance angle	Direction de coupe Schneidrichtung Cut direction		Hauteur du porte-outil Halter Höhe Holder height	Largeur du porte-outil Halter Breite Holder width	Longueur du porte-outil Halter Länge Holder length		Dimension de la plaquette (L) WSP Grösse (L) Insert size (L)
S	**D**	**J**	**C**	**R**	**–**	**12**	**12**	**G**	**–**	**11**

R **L** **N**

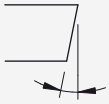


L



[mm]

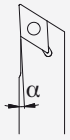
C = 7°



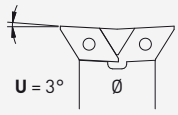
A x B (or Ø) [mm]
08 x 08
10 x 10
12 x 12
12.7 x 12.7 (1/2 in)
16 x 16
20 x 20
Ø: D10 / D20 / D25.4 (Ø1 in)

Length: [mm]
F = 75
G = 90
J = 110
X = Special

α:
A = 0°
J = 3°
L = 5°
H = 17.5°
X = 27.5°



U



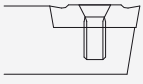
U = 3°

C = 80°

D = 55°

V = 35°

S = vis
Schraube
screw

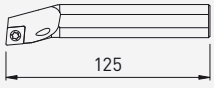


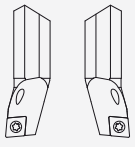
Compatibilité porte-outil - plaquette
WSP - Halter Kompatibilität
Holder - insert compatibility

S	D	J	C	R	–	12	12	G	–	11
D	**C**	**G**	**T**	**–**	**11**	**T3**	**04**	**–**	**FN**	**–**

Matière Material Material	Diamètre queue Schaft Shank	Longueur du porte-outil Halter Länge Holder length		Méthode de serrage Klemmsystem Clamping system	Forme de la plaquette Plattenform Insert shape	Géométrie du porte-outil Halterform Holder geometry	Angle de dépouille de la plaquette WSP-Freiwinkel Insert clearance angle	Direction de coupe Schneidrichtung Cut direction		Dimension de la plaquette (L) WSP Grösse (L) Insert size (L)
A	**12**	**K**	**–**	**S**	**C**	**L**	**C**	**R**	**–**	**06**

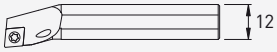
Longueur
Länge
Length
F = 80
H = 100
J = 110
K = 125
M = 150
Q = 180



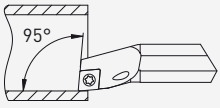


C = 7°

Ø queue
Schaft Ø
Shank Ø



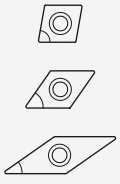
L = 95°
Q = 107.5°
U = 93°



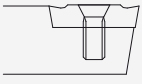
A = acier avec lubrification
Stahl mit Kühlung
Steel with coolant

E = carbure avec lubrification
Harmetall mit Kühlung
Carbide with coolant

C = 80°
D = 55°
V = 35°



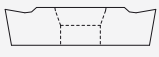
S = vis
Schraube
screw



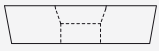
Codification
Kodifizierung
Coding guide

Forme de la plaquette Plattenform Insert shape	Angle de dépouille de la plaquette WSP-Freiwinkel Insert clearance angle	Classe de tolérance Toleranz Klasse Tolerance class	Caractéristiques de fixation Befestigungsmerkmale Clamping features		Dimension de la plaquette (L) WSP Grösse (L) Insert size (L)	Epaisseur de la plaquette (E) WSP Dicke (E) Insert thickness (E)	Rayon de pointe de la plaquette WSP Eckenradius Insert corner radius		Exécution d'arête et direction de coupe Schneidkante Ausführung und Schneidrichtung Edge type and cutting direction		Géométrie de coupe Spanformgeometrie Cutting geometry
D	**C**	**G**	**T**	**–**	**11**	**T3**	**04**	**–**	**FN**	**–**	**X8**

T



W



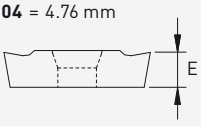
R:
003 = 0.03 mm
005 = 0.05 mm
008 = 0.08 mm
01 = 0.1 mm
015 = 0.15 mm
02 = 0.2 mm
04 = 0.4 mm
08 = 0.8 mm

cf.: Géométrie de coupe
Spanformgeometrie
Cutting geometry

G = ±0.025 mm

M = ±0.05 mm

02 = 2.38 mm
03 = 3.18 mm
T3 = 3.97 mm
04 = 4.76 mm

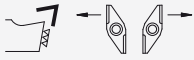


FN

EN

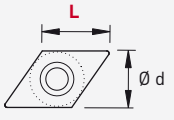
ENP

FL / FR



ELP / ERP

C = 7°



[mm]

C = 80°

D = 55°

V = 35°

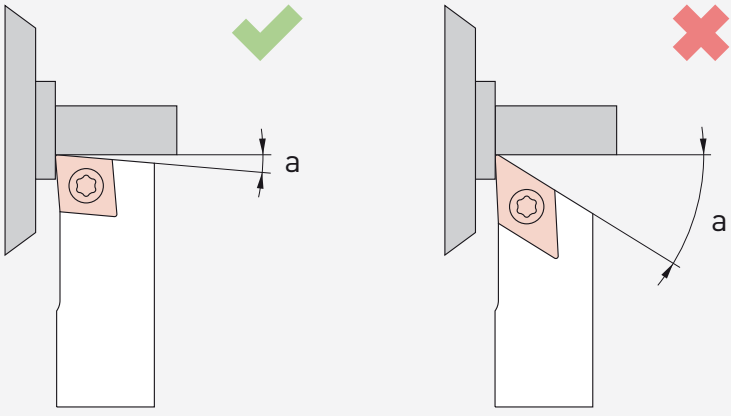
L	Ø d [mm]
CC...**06** DC...**07** VC... **11**	6.350
VC... **13**	7.940
CC...**09** DC... **11** VC... **16**	9.525

Better surface finish

pour un meilleur état de surface et une stabilité d'usinage optimale, choisir une géométrie d'outil permettant un angle "a" le plus petit possible

für bessere Oberflächegüte und optimale Bearbeitungsstabilität, muss die Werkzeuggeometrie mit kleinstmöglichem Winkel "a" ausgewählt werden

for a better surface finish and optimal machining stability, choose a tool geometry with angle "a" as small as possible



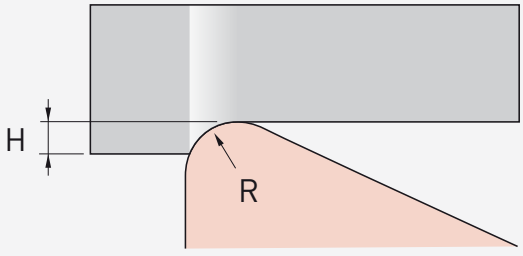
Proportion

rapport hauteur de passe / rayon d'outil

Verhältnis zwischen Spantiefe und Werkzeugradius

machining depth / tool radius ratio

H min = 0.7 X R
R max = 1.4 X H



Plaquettes en métal dur rectifiées
VHM geschliffene WSP
Carbide ground inserts

G
tolerance class

Géométries de coupe
Spanformgeometrien
Cutting geometries

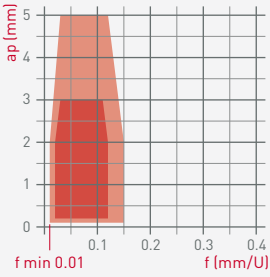
Finishing

FN-X8

8°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished



P	★★★★★
M	★★★★
N	★★★★
S	★★★

CCGT p. 9.26 | DCGT p. 9.45 | VCGT p. 9.64

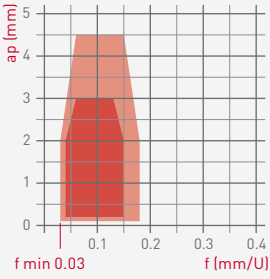
Semi-finishing
Finishing

ENP-X8

8°

Arête de coupe honée
Schneidkantenverrundung
Honed edge

Poli
Poliert
Polished



P	★★★★★
M	★★★
N	★★★
S	★★★

CCGT p. 9.26 | DCGT p. 9.45 | VCGT p. 9.64

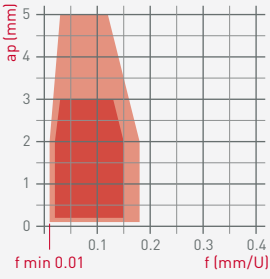
Finishing

FN-X17

17°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished



P	★★★
M	★★★★★
N	★★★★
S	★★★★★

CCGT p. 9.27 | DCGT p. 9.46 | VCGT p. 9.65

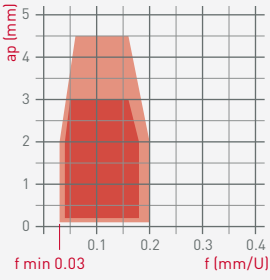
Semi-finishing
Finishing

ENP-X17

17°

Arête de coupe honée
Schneidkantenverrundung
Honed edge

Poli
Poliert
Polished



P	★★★
M	★★★★★
N	★★★
S	★★★★

CCGT p. 9.27 | DCGT p. 9.46 | VCGT p. 9.65

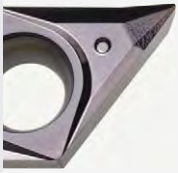
Géométries de coupe
Spanformgeometrien
Cutting geometries

G
tolerance class

Plaquettes en métal dur rectifiées
VHM geschliffene WSP
Carbide ground inserts

Finishing

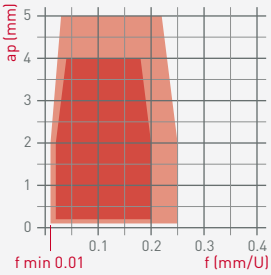
FN-X25



25°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished

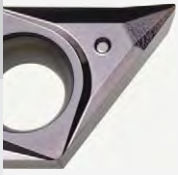


P ★★★
M ★★★★★
N ★★★★
S

CCGT p. 9.28 | DCGT p. 9.47 | VCGT p. 9.66

Semi-finishing
Finishing

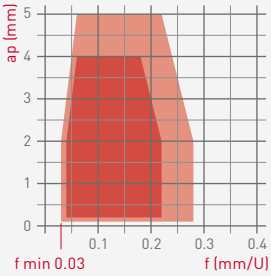
ENP-X25



25°

Arête de coupe honée
Schneidkantenverrundung
Honed edge

Poli
Poliert
Polished

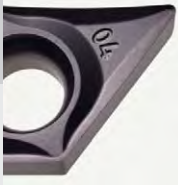


P ★★★
M ★★★★★
N ★★★★
S

CCGT p. 9.28 | DCGT p. 9.47 | VCGT p. 9.66

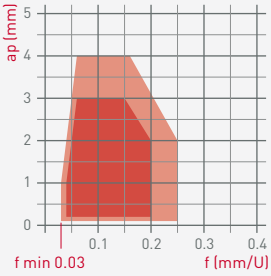
Semi-finishing
Finishing

ENP-X20



20°

Arête de coupe honée
Schneidkantenverrundung
Honed edge



P ★★★★★
M ★★★
N ★★★★★
S

CCGT p. 9.29 | DCGT p. 9.48 | VCGT p. 9.67

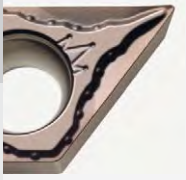
Plaquettes en métal dur
VHM-Wendeplatten
Carbide inserts

M
tolerance class

Géométries de coupe
Spanformgeometrien
Cutting geometries

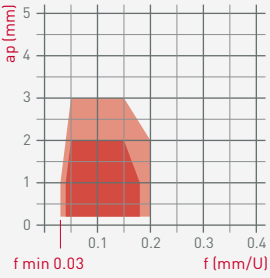
Semi-finishing
Finishing

EN-XF3



12°

Arête de coupe honée
Schneidkantenverrundung
Honed edge



P	★★★★
M	★★★★★
N	★★★
S	★★★

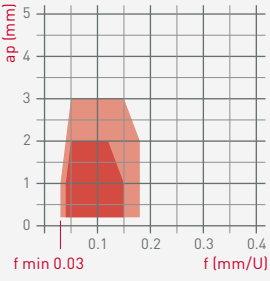
CCMT p. 9.30 | DCMT p. 9.49 | VCMT p. 9.68

Semi-finishing
Finishing

EN-XF2

6°

Arête de coupe honée
Schneidkantenverrundung
Honed edge

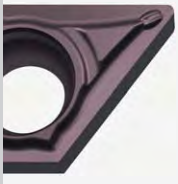


P	★★★★★
M	★★★
N	
S	★★★

CCMT p. 9.30 | DCMT p. 9.49 | VCMT p. 9.68

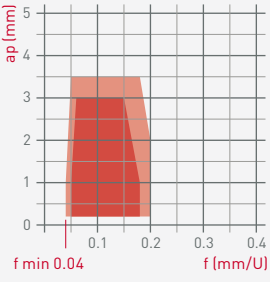
Semi-finishing

EN-MF2



8°

Arête de coupe honée
Schneidkantenverrundung
Honed edge



P	★★★★
M	★★★★
N	★★★
S	★★★

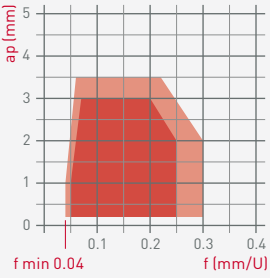
CCMT p. 9.30 | DCMT p. 9.49

Semi-finishing

EN-MF

5°

Arête de coupe honée
Schneidkantenverrundung
Honed edge

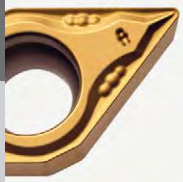


P ★★★★★
M ★★★
N
S

CCMT p. 9.31 | DCMT p. 9.50 | VCMT p. 9.69

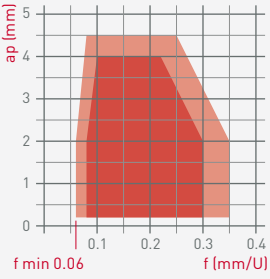
Roughing
Semi-finishing

EN-HF3



10°

Arête de coupe honée
Schneidkantenverrundung
Honed edge



P ★★★★★
M ★★★★★
N
S ★★★

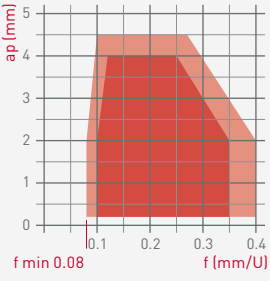
CCMT p. 9.31 | DCMT p. 9.50

Roughing
Semi-finishing

EN-HF

12°

Arête de coupe honée
Schneidkantenverrundung
Honed edge



P ★★★★★
M ★★★★★
N
S

CCMT p. 9.31 | DCMT p. 9.50 | VCMT p. 9.69

Plaquettes en métal dur rectifiées
VHM geschliffene WSP
Carbide ground inserts

G
tolerance class

Géométries de coupe
Spanformgeometrien
Cutting geometries

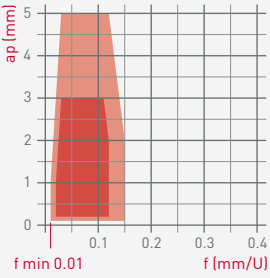
Super-finishing
Finishing

FL/FR-X10

10°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished



P ★★★★
M ★★★★★
N ★★★★
S ★★★★

VCGT

p. 9.62

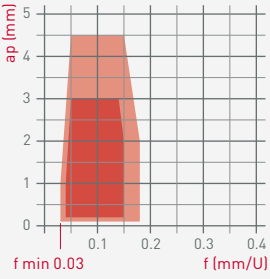
Semi-finishing
Finishing

ELP/ERP-X10

10°

Arête de coupe honée
Schneidkantenverrundung
Honed edge

Poli
Poliert
Polished



P ★★★★★
M ★★★★
N ★★★
S ★★★

VCGT

p. 9.62

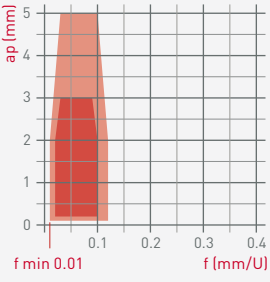
Super-finishing
Finishing

FN-K18

18°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished



P ★★★★
M ★★★★★
N ★★★★
S ★★★★

VCGT

p. 9.63

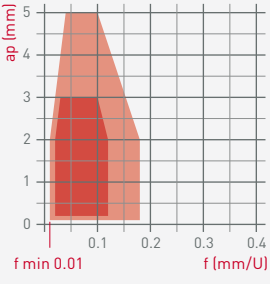
Finishing

FN-0

0°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished



P ★★★
M
N ★★★
S

VCGW

p. 9.63

Géométries de coupe
Spanformgeometrien
Cutting geometries

G / M
tolerance class

CERMET

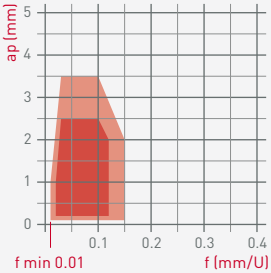
Finishing

FN-X8 CERMET

8°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished



P ★★★★★
M ★★★
N
S

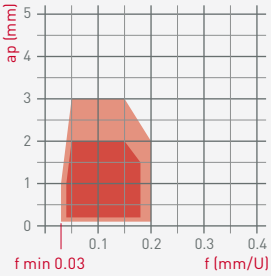
CCGT p. 9.32 | DCGT p. 9.51 | VCGT p. 9.64

Semi-finishing
Finishing

ENP-KX CERMET

8°

Arête de coupe honée
Schneidkantenverrundung
Honed edge

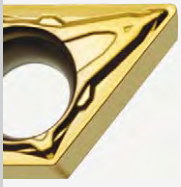


P ★★★★★
M ★★★
N
S

CCGT p. 9.32 | DCGT p. 9.51

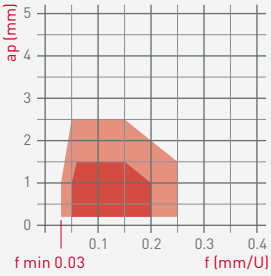
Semi-finishing

EN-KM CERMET



8°

Arête de coupe honée
Schneidkantenverrundung
Honed edge



P ★★★★★
M ★★★
N
S

CCMT p. 9.33 | DCMT p. 9.52

Nuances
Sorten
Grades

Nuances Sorten Grades	Domaine d'application Anwendungsbereich Application area	Finishing / light machining	Semi-finishing / medium cut	Roughing / heavy machining	Géométries de coupe disponibles Verfügbare Spanformgeometrien Available cutting geometries	Résistance à l'usure Verschleissfestigkeit Wear resistance	Ténacité, résistance à la rupture Zähigkeit, Bruchwiderstand Toughness, crack resistance	Résistance à la température Bearbeitungswarmfestigkeit Machining heat resistance	Revêtement et couleur Beschichtung und Farbe Coating and colour	Recommandations spéciales Sonder Empfehlungen Special recommendations
Carbide + PVD										
TiAlN	★★★★★ ★★★★★ ★★★★ ★★★★	●	●	●	FN/ENP-X8 FN/ENP-X17 FN/ENP-X25 L/R-X10	■■■■□	■■■■□	■■■■□	PVD	
HTA	★★★★★ ★★★★★ ★★★★ ★★★★	●			FN-X8 FN-X17 FN-X25 L/R-X10 FN-K18 FN-0	■■■■■	■■■□□	■■■■□	PVD	
TiN	★★★★ ★★★★ ★★★★★	●	●	●	FN/ENP-X8 FN/ENP-X17 FN/ENP-X25 L/R-X10	■■■□□	■■■■□	■■■□□	PVD	High resistance to edge build up
HTiN	★★★★ ★★★★ ★★★★★	●			FN-K18 FN-0	■■■■□	■■■□□	■■■□□	PVD	High resistance to edge build up
TAC	★★★★★ ★★★★★ ★★★★ ★★★★	●	●	●	EN-XF3 EN-XF2 EN-MF2 EN-HF	■■■■□	■■■■□	■■■■□	PVD	
HTAC	★★★★★ ★★★★★ ★★★★ ★★★★	●	●		EN-XF3 EN-XF2 EN-MF2	■■■■■	■■■□□	■■■■□	PVD	
TiX	★★★★★ ★★★★★ ★★★			●	EN-HF3	■■■□□	■■■■□	■■■□□	PVD	Easy wear out control with TiN top layer
HTiX	★★★★★ ★★★★★ ★★★★ ★★★		●	●	ENP-X20 EN-HF3	■■■■□	■■■□□	■■■□□	PVD	Easy wear out control with TiN top layer
Tmax	★★★★★ ★★★★★ ★★★★ ★★★★		●	●	EN-MF EN-HF	■■■■□	■■■■□	■■■■□	PVD	
ZTA	★★★★★ ★★★ ★★★★★	●	●		ENP-X20	■■■■□	■■■■□	■■■■□	PVD	Perfect for titanium alloys & superalloys
TiAlX	★★★★ ★★★★ ★★★★★	●	●		X8 R-X10 X17 X25	■■■■□	■■■■□	■■■■□	PVD	Perfect for titanium alloys & superalloys
HTAX	★★★★ ★★★★ ★★★★★	●			X8 R-X10 X17 X25	■■■■■	■■■□□	■■■■□	PVD	Perfect for titanium alloys & superalloys
ST	★★★★ ★★★★ ★★★★★	●	●		X17 ENP-X17 FL/FR-X10 ELP/ERP-X10	■■■■□	■■■■□	■■■■■	PVD	Hard materials >50HRC, refractory materials, nickel- or cobalt-based, stainless steel, titanium alloys
HST	★★★★ ★★★★ ★★★★★	●	●		X17	■■■■□	■■■□□	■■■■■	PVD	Hard materials >50HRC, refractory materials, nickel- or cobalt-based, stainless steel, titanium alloys

Nuances Sorten Grades	Domaine d'application Anwendungsbereich Application area	Finishing / light machining	Semi-finishing / medium cut	Roughing / heavy machining	Géométries de coupe disponibles Verfügbare Spanformgeometrien Available cutting geometries	Résistance à l'usure Verschleissfestigkeit Wear resistance	Ténacité, résistance à la rupture Zähigkeit, Bruchwiderstand Toughness, crack resistance	Résistance à la température Bearbeitungswarmfestigkeit Machining heat resistance	Revêtement et couleur Beschichtung und Farbe Coating and colour	Recommandations spéciales Sonder Empfehlungen Special recommendations
Carbide + CVD										
Ti4	★★★★★ ★★★		●	●	EN-MF EN-HF3 EN-HF	■■■■□	■■■■□	■■■■■	CVD	
Ti5	★★★★★ ★★★		●	●	EN-MF2 EN-HF	■■■■□	■■■■□	■■■■■	CVD	Easy wear out control with TiN top layer
HTi5	★★★★★ ★★★		●	●	EN-XF2 EN-MF2 EN-HF	■■■■■	■■■□□	■■■■■	CVD	Easy wear out control with TiN top layer
Ti6	★★★ ★★★★★ ★★★★		●	●	EN-HF3	■■■■□	■■■■□	■■■■■	CVD	
Ti7	★★★ ★★★★★ ★★★★		●	●	EN-MF	■■■□□	■■■■□	■■■■■	CVD	titanium alloys, refractory materials, iron-, nickel- or cobalt-based, austenitic stainless steel
Carbide uncoated										
K10	★★★ ★★★	●			FN-X8 FN-X17 FN-X25 ELP-X10/ERP-X10 FN-K18 FN-0	■■■□□	■■■□□	■■□□□	uncoated	
K20	★★ ★★	●			FN/ENP-X8 FN/ENP-X17 FN/ENP-X25 ELP-X10/ERP-X10	■■□□□	■■■■□	■■□□□	uncoated	
CERMET										
CTA	★★★★★ ★★★	●			FN-X8	■■■■□	■■■■□	■■■■■	CERMET +PVD	
CT7	★★★★★ ★★★	●	●	●	ENP-KX EN-KM	■■■■□	■■■■□	■■■■■	CERMET + PVD	Easy wear out control with TiN top layer
HCT7	★★★★★ ★★★	●	●		ENP-KX EN-KM	■■■■■	■■■□□	■■■■■	CERMET + PVD	Easy wear out control with TiN top layer
CN6	★★★★	●			FN-X8 ENP-KX EN-KM	■■□□□	■■■■□	■■■■□	CERMET uncoated	

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

★★★★★ ★★★★ ★★★

ISO-Line G tolerance class	Tough grade, for normal to difficult machining conditions	Wear resistant grade, for finishing and light machining	P Acier / Stahl / Steel						M Inox / Rostfreistahl / Stainless steel			
			Acier de décolletage Automatenstahl Free-cutting steel		Acier faiblement allié Leicht legierter Stahl Low alloyed steel		Acier fortement allié Hochlegierter Stahl High alloyed steel		Austénitique Austenitisch Austenitic		Martensitique Martensitisch Martensitic	
			VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)
FN-X8	K20	HTA	80-180	0.01-0.12	60-150	0.01-0.10	50-120	0.01-0.08	60-140	0.01-0.12	60-140	0.01-0.12
	TiAlX	HTAX	80-180	0.01-0.12	60-150	0.01-0.10	50-120	0.01-0.08	60-140	0.01-0.12	60-140	0.01-0.12
	TiN		80-170	0.01-0.12	60-140	0.01-0.10			60-120	0.01-0.12	60-120	0.01-0.12
	K20	K10										
ENP-X8	TiAlN		80-180	0.03-0.15	60-160	0.03-0.12	50-120	0.03-0.10	60-140	0.03-0.12	60-140	0.03-0.15
	TiN		80-170	0.03-0.15	60-150	0.03-0.12			60-120	0.03-0.12	60-120	0.03-0.15
	K20											
FN-X17	TiAlN		80-180	0.01-0.12	60-150	0.01-0.10			60-140	0.01-0.15	60-140	0.01-0.15
	TiAlX		80-180	0.01-0.12	60-150	0.01-0.10	50-120	0.01-0.08	60-140	0.01-0.12	60-140	0.01-0.12
	ST	HST	80-180	0,01-0,12	60-150	0,01-0,10	50-120	0,01-0,08	60-150	0,01-0,12	60-150	0,01-0,12
	TiN		80-170	0.01-0.12					60-120	0.01-0.15	60-120	0.01-0.15
	K20	K10										
ENP-X17	TiAlN	HTA	80-180	0.03-0.15	60-160	0.03-0.12	50-120	0.03-0.10	60-140	0.03-0.15	60-140	0.03-0.18
	ST		80-180	0,01-0,12	60-150	0,01-0,10	50-120	0,01-0,08	60-150	0,01-0,12	60-150	0,01-0,12
	TiAlX	HTAX	80-180	0.01-0.12	60-150	0.01-0.10	50-120	0.01-0.08	60-140	0.01-0.12	60-140	0.01-0.12
	TiN		80-170	0.03-0.15	60-150	0.03-0.12			60-120	0.01-0.15	60-120	0.03-0.18
	K20	K10										
FN-X25	TiAlN	HTA							60-140	0.01-0.12		
	TiN								60-120	0.01-0.12		
	K20	K10										
ENP-X25	TiAlN								60-140	0.03-0.12	60-140	0.03-0.15
	TiAlX		80-180	0.01-0.12	60-150	0.01-0.10	50-120	0.01-0.08	60-140	0.01-0.12	60-140	0.01-0.12
	TiN								60-120	0.03-0.12	60-120	0.03-0.15
	K20											
ENP-X20	ZTA								60-140	0.03-0.18	60-140	0.03-0.18
		HTiX							60-140	0.03-0.18	60-140	0.03-0.18
G tolerance class Special 35° VC..-11												
FL / FR-X10	TiAlN	HTA	80-180	0.01-0.12	60-150	0.01-0.10	50-120	0.01-0.08	60-140	0.01-0.12	60-140	0.01-0.12
	TiAlX	HTAX	80-180	0.01-0.12	60-150	0.01-0.10	50-120	0.01-0.08	60-140	0.01-0.12	60-140	0.01-0.12
	ST	HST	80-180	0,03-0,15	60-160	0,03-0,12	50-120	0,03-0,10	60-150	0,03-0,12	60-150	0,01-0,12
	TiN		80-170	0.01-0.12	60-140	0.01-0.10			60-120	0.01-0.12	60-120	0.01-0.12
	K20	K10										
ELP/ERP-X10	TiAlN	HTA	80-180	0.03-0.15	60-160	0.03-0.12	50-120	0.03-0.10	60-140	0.03-0.12	60-140	0.03-0.15
	TiAlX	HTAX	80-180	0.03-0.15	60-160	0.03-0.12	50-120	0.03-0.10	60-140	0.03-0.12	60-140	0.03-0.15
	ST		80-180	0,03-0,15	60-160	0,03-0,12	50-120	0,03-0,10	60-150	0,03-0,12	60-150	0,01-0,12
	TiN		80-170	0.03-0.15	60-150	0.03-0.12			60-120	0.03-0.12	60-120	0.03-0.15
	K20	K10										
FN-K18		HTA	80-180	0.01-0.10	60-150	0.01-0.10			60-140	0.01-0.10	60-140	0.01-0.10
		HTiN	80-170	0.01-0.10	60-140	0.01-0.10			60-120	0.01-0.10	60-120	0.01-0.10
		K10										
FN-0		HTA	80-150	0.01-0.10								
		HTiN	80-140	0.01-0.10								
		K10										

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

N Alliages d'aluminium et non ferreux Aluminium- und Nichteisenlegierungen Aluminium and non-ferrous alloys								S Titane et superalliages Titan und Superlegierungen Titanium and superalloys					
Aluminium		Al-Si		Cuivre Kupfer Copper		Laiton & bronze Messing & Bronze Brass & bronze		Ti grade 1 - 3		Ti grade 4 - 6		Superalliages Superlegierungen Superalloys	
VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)
		150-1600	0.01-0.15	80-300	0.01-0.12	**100-400**	**0.01-0.15**			30-60	0.01-0.12	40-70	0.01-0.10
								30-70	0.01-0.12	**30-60**	**0.01-0.12**	**40-70**	**0.01-0.10**
120-2200	0.01-0.18	**150-1600**	**0.01-0.15**	80-300	0.01-0.12	100-400	0.01-0.15						
120-2000	0.01-0.18	150-1500	0.01-0.15	80-250	0.01-0.12	**100-300**	**0.01-0.15**	30-70	0.01-0.12				
		150-800	0.03-0.18	80-300	0.03-0.15					30-60	0.03-0.12	40-70	0.03-0.10
		150-800	**0.03-0.18**	80-300	0.03-0.15								
		150-800	0.03-0.18	80-250	0.03-0.15								
		150-1600	0.01-0.18	**80-300**	**0.01-0.15**	100-400	0.01-0.18			**30-70**	**0.01-0.15**	40-80	0.01-0.12
								30-70	0.01-0.12	**30-60**	**0.01-0.12**	**40-70**	**0.01-0.10**
										40-80	**0,01-0,08**	**40-80**	**0,01-0,08**
120-2200	0.01-0.25	150-1600	0.01-0.18	80-300	0.01-0.15	100-400	0.01-0.18						
120-2000	0.01-0.25	150-1500	0.01-0.18	80-250	0.01-0.15	100-300	0.01-0.18	**40-80**	**0.01-0.15**				
		150-800	0.03-0.20	80-300	0.03-0.18					30-70	0.03-0.15	**40-80**	**0.03-0.12**
										40-80	0,01-0,08	40-80	0,01-0,08
								30-70	0.01-0.12	**30-60**	**0.01-0.12**	**40-70**	**0.01-0.10**
		150-800	0.03-0.20	80-300	0.03-0.18								
		150-800	0.03-0.20	80-250	0.03-0.18								
		150-1600	0.01-0.22	80-300	0.01-0.18					30-60	0.01-0.12	40-70	0.01-0.10
120-2200	0.01-0.30	**150-1600**	**0.01-0.22**	80-300	0.01-0.18								
120-2000	**0.01-0.30**	150-1500	0.01-0.22	80-250	0.01-0.18			30-70	0.01-0.12				
		150-800	0.03-0.25	80-300	0.03-0.20					30-60	0.03-0.12	40-70	0.03-0.10
								30-70	0.01-0.12	**30-60**	**0.01-0.12**	**40-70**	**0.01-0.10**
		150-800	0.03-0.25	80-300	0.03-0.20								
		150-800	0.03-0.25	80-250	0.03-0.20								
		150-800	0.03-0.25	80-300	0.03-0.20					**40-90**	**0.03-0.15**	**40-100**	**0.03-0.15**
		150-800	0.03-0.25	80-300	0.03-0.20					40-80	0.03-0.15	40-90	0.03-0.15
		150-1600	0.01-0.18	80-300	0.01-0.15	100-400	0.01-0.18			30-60	0.01-0.12	40-70	0.01-0.10
								30-70	0.01-0.12	**30-60**	**0.01-0.12**	**40-70**	**0.01-0.10**
										40-80	0,01-0,08	**40-80**	**0,01-0,08**
120-2200	0.01-0.20	150-1600	0.01-0.18	80-300	0.01-0.15	100-400	0.01-0.18						
120-2000	0.01-0.20	150-1500	0.01-0.18	80-250	0.01-0.15	100-300	0.01-0.18	30-70	0.01-0.12				
		150-1600	0.03-0.20	80-300	0.03-0.18					30-60	0.03-0.12	40-70	0.03-0.10
										30-60	**0.03-0.12**	**40-70**	**0.03-0.10**
										40-80	0,01-0,08	40-80	0,01-0,08
		150-1600	0.03-0.20	80-300	0.01-0.18								
		150-1500	0.03-0.20	80-250	0.01-0.18								
		150-1600	0.01-0.12	80-300	0.01-0.10					**30-70**	**0.01-0.10**	40-80	0.01-0.10
120-2200	0.01-0.15	150-1600	0.01-0.12	80-300	0.01-0.10								
120-2000	0.01-0.15	150-1500	0.01-0.12	80-250	0.01-0.10			**40-80**	**0.01-0.10**				
						100-400	0.01-0.18						
						100-400	0.01-0.18						
						100-300	0.01-0.18						

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

★★★★★ ★★★★ ★★★

ISO-Line M tolerance class	Tough grade, for normal to difficult machining conditions	Wear resistant grade, for finishing and light machining	P Acier Stahl Steel						M Inox Rostfreistahl Stainless steel			
			Acier de décolletage Automatenstahl Free-cutting steel		Acier faiblement allié Leicht legierter Stahl Low alloyed steel		Acier fortement allié Hochlegierter Stahl High alloyed steel		Austénitique Austenitisch Austenitic		Martensitique Martensitisch Martensitic	
			VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)
EN-XF3	TAC	HTAC	100-200	0.03-0.15	80-160	0.03-0.12	50-120	0.03-0.10	**60-140**	**0.03-0.12**	60-140	0.03-0.15
EN-XF2	TAC	HTAC	**100-200**	**0.03-0.15**	**80-160**	**0.03-0.12**	50-120	0.03-0.10	60-140	0.03-0.12	60-140	0.03-0.15
		HTi5	100-250	0.03-0.15	**80-220**	**0.03-0.12**	**50-180**	**0.03-0.10**	80-200	0.03-0.12	80-200	0.03-0.15
EN-MF2	TAC	HTAC	100-200	0.04-0.15	80-160	0.04-0.12	50-120	0.04-0.10	**60-140**	**0.04-0.12**	60-140	0.04-0.15
	Ti5	HTi5	100-250	0.04-0.15	**80-220**	**0.04-0.12**	**50-180**	**0.04-0.10**	80-200	0.04-0.12	**80-200**	**0.04-0.15**
EN-MF	Tmax		**100-220**	**0.04-0.30**	**80-180**	**0.04-0.25**	50-150	0.04-0.20	60-150	0.04-0.25	60-150	0.04-0.25
	Ti4		100-250	0.05-0.30	**80-220**	**0.05-0.25**	**50-180**	**0.05-0.20**	80-200	0.05-0.25	80-200	0.05-0.25
	Ti7								60-150	0.05-0.20	60-150	0.05-0.20
EN-HF3	TiX	HTiX	**100-220**	**0.06-0.35**	**80-180**	**0.06-0.30**	50-150	0.06-0.25	**60-150**	**0.06-0.25**	60-150	0.06-0.25
	Ti6		100-250	0.06-0.35	80-220	0.06-0.30	50-180	0.06-0.25	**80-200**	**0.06-0.25**	**80-200**	**0.06-0.25**
EN-HF	Tmax		100-220	0.08-0.40	80-180	0.08-0.35	50-150	0.08-0.30	60-150	0.08-0.30	60-150	0.08-0.30
	TAC		100-200	0.08-0.40	80-160	0.08-0.35	50-140	0.08-0.30	**60-140**	**0.08-0.30**	60-140	0.08-0.30
	Ti4		100-250	0.08-0.40	**80-220**	**0.08-0.35**	**50-180**	**0.08-0.30**	80-200	0.08-0.30	**80-200**	**0.08-0.30**
	Ti5	HTi5	100-280	0.08-0.40	**80-250**	**0.08-0.35**	**50-200**	**0.08-0.30**	80-220	0.08-0.30	**80-220**	**0.08-0.30**
ISO-Line CERMET												
FN-X8 CERMET	CTA		**100-350**	**0.01-0.12**	**80-300**	**0.01-0.10**	70-250	0.01-0.08	80-250	0.01-0.12	**80-250**	**0.01-0.12**
	CN6		100-300	0.01-0.12	80-250	0.01-0.10	70-200	0.01-0.08				
ENP-KX CERMET	CT7	HCT7	**100-350**	**0.03-0.20**	**80-300**	**0.03-0.18**	70-250	0.03-0.15	80-250	0.03-0.18	**80-250**	**0.03-0.18**
	CN6		100-300	0.03-0.20	80-250	0.03-0.18	70-200	0.03-0.15				
EN-KM CERMET	CT7	HCT7	**100-350**	**0.03-0.25**	**80-300**	**0.03-0.20**	70-250	0.03-0.18	80-250	0.03-0.20	**80-250**	**0.03-0.20**
	CN6		100-300	0.03-0.25	80-250	0.03-0.20	70-200	0.03-0.18				

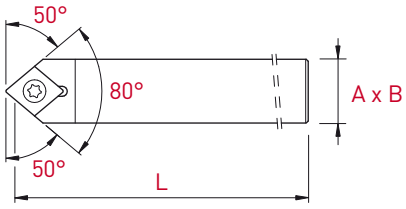
Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

N Alliages d'aluminium et non ferreux Aluminium- und Nichteisenlegierungen Aluminium and non-ferrous alloys									S Titane et superalliages Titan und Superlegierungen Titanium and superalloys					
Aluminium		Al-Si		Cuivre Kupfer Copper		Laiton & bronze Messing & Bronze Brass & bronze		Ti grade 1 - 3		Ti grade 4 - 6		Superalliages Superlegierungen Superalloys	
VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)
		120-1500	0.03-0.20	80-300	0.03-0.15	100-400	0.03-0.18			30-70	0.03-0.15	40-80	0.03-0.12
						100-400	0.03-0.18			30-70	0.03-0.15	40-80	0.03-0.12
		120-1500	0.04-0.20	80-300	0.04-0.15	100-400	0.04-0.18			30-70	0.04-0.15	40-80	0.04-0.12
										40-80	0.05-0.12	40-80	0.05-0.12
										30-70	0.06-0.20	40-80	0.06-0.20

SCM

80°

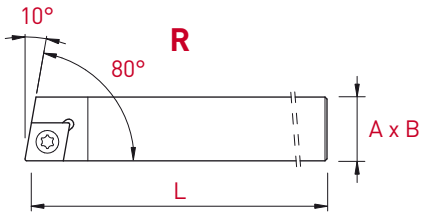
Porte-outils
Halter
Holders



SCM

Plaquettes WSP Inserts	A x B	L	Art. N°
CC..-0602..	8 x 8	115	**SCMCN-0808X-06**
	10 x 10	115	**SCMCN-1010X-06**
	12 x 12	130	**SCMCN-1212X-06**
	12 x 12	90	**SCMCN-1212G-06**
	12.7 x 12.7	130	**SCMCN-12.7X-06**
	16 x 16	130	**SCMCN-1616X-06**
	16 x 16	75	**SCMCN-1616F-06**
CC..-09T3..	12 x 12	130	**SCMCN-1212X-09**
	12 x 12	90	**SCMCN-1212G-09**
	12.7 x 12.7	130	**SCMCN-12.7X-09**
	16 x 16	130	**SCMCN-1616X-09**
	16 x 16	75	**SCMCN-1616F-09**
	20 x 20	120	**SCMCN-2020X-09**

SCA



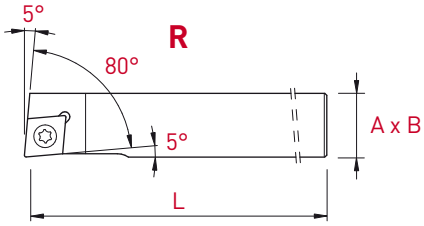
			L	R
Plaquettes WSP Inserts	A x B	L	Art. N°	Art. N°
CC..-0602..	8 x 8	115	**SCACL-0808X-06**	**SCACR-0808X-06**
	10 x 10	115	**SCACL-1010X-06**	**SCACR-1010X-06**
	12 x 12	130	**SCACL-1212X-06**	**SCACR-1212X-06**
	12 x 12	90	**SCACL-1212G-06**	**SCACR-1212G-06**
	12.7 x 12.7	130	**SCACL-12.7X-06**	**SCACR-12.7X-06**
	16 x 16	130	**SCACL-1616X-06**	**SCACR-1616X-06**
	16 x 16	75	**SCACL-1616F-06**	**SCACR-1616F-06**
CC..-09T3..	12 x 12	130	**SCACL-1212X-09**	**SCACR-1212X-09**
	12 x 12	90	**SCACL-1212G-09**	**SCACR-1212G-09**
	12.7 x 12.7	130	**SCACL-12.7X-09**	**SCACR-12.7X-09**
	16 x 16	130	**SCACL-1616X-09**	**SCACR-1616X-09**
	16 x 16	75	**SCACL-1616F-09**	**SCACR-1616F-09**
	20 x 20	120	**SCACL-2020X-09**	**SCACR-2020X-09**

SCL

80°

Porte-outils
Halter
Holders

SCL



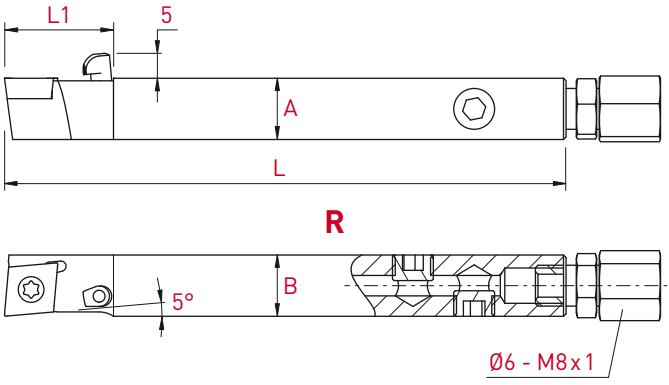
			L	R
Plaquettes WSP Inserts	A x B	L	Art. N°	Art. N°
CC..-0602..	8 x 8	115	**SCLCL-0808X-06**	**SCLCR-0808X-06**
	10 x 10	115	**SCLCL-1010X-06**	**SCLCR-1010X-06**
	12 x 12	130	**SCLCL-1212X-06**	**SCLCR-1212X-06**
	12 x 12	90	**SCLCL-1212G-06**	**SCLCR-1212G-06**
	12.7 x 12.7	130	**SCLCL-12.7X-06**	**SCLCR-12.7X-06**
	16 x 16	130	**SCLCL-1616X-06**	**SCLCR-1616X-06**
	16 x 16	75	**SCLCL-1616F-06**	**SCLCR-1616F-06**
CC..-09T3..	12 x 12	130	**SCLCL-1212X-09**	**SCLCR-1212X-09**
	12 x 12	90	**SCLCL-1212G-09**	**SCLCR-1212G-09**
	12.7 x 12.7	130	**SCLCL-12.7X-09**	**SCLCR-12.7X-09**
	16 x 16	130	**SCLCL-1616X-09**	**SCLCR-1616X-09**
	16 x 16	75	**SCLCL-1616F-09**	**SCLCR-1616F-09**
	20 x 20	120	**SCLCL-2020X-09**	**SCLCR-2020X-09**

Porte-outils avec arrosage intégré
Halter mit integrierter Kühlmittelzufuhr
Holders with integrated coolant supply

80°

SCL-JET

SCL



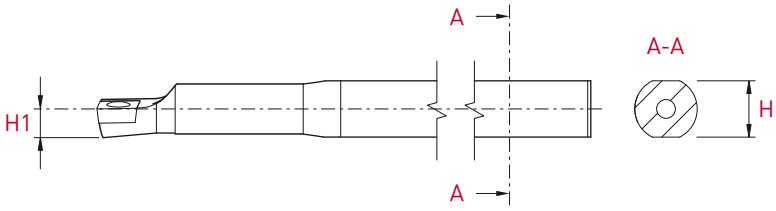
Plaquettes WSP Inserts	A x B	L	L1	L	R
				Art. N°	**Art. N°**
CC..-0602..	10 x 10	110	21	**SCLCL-1010J-06-JET**	**SCLCR-1010J-06-JET**
	12 x 12	110	21	**SCLCL-1212J-06-JET**	**SCLCR-1212J-06-JET**
	12.7 x 12.7	110	21	**SCLCL-12.7J-06-JET**	**SCLCR-12.7J-06-JET**
	16 x 16	110	21	**SCLCL-1616J-06-JET**	**SCLCR-1616J-06-JET**
CC..-09T3..	12 x 12	110	21	**SCLCL-1212J-09-JET**	**SCLCR-1212J-09-JET**
	12.7 x 12.7	110	21	**SCLCL-12.7J-09-JET**	**SCLCR-12.7J-09-JET**
	16 x 16	110	21	**SCLCL-1616J-09-JET**	**SCLCR-1616J-09-JET**
	20 x 20	110	21	**SCLCL-2020J-09-JET**	**SCLCR-2020J-09-JET**

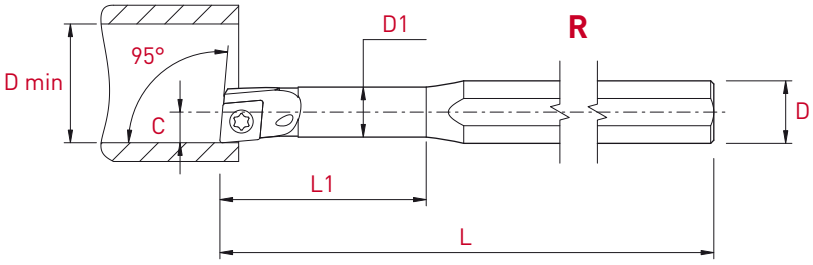
A-SCLCR/L

80°

Porte-outils intérieurs amincis
Verjüngte Innenhalter
Thinned internal holders

SCL





									Acier / Stahl / Steel	
									L	**R**
Plaquettes WSP Inserts	D	D min	D1	C	H1	L	L1	H	**Art. N°**	**Art. N°**
CC..-0602..	8	8	6	4	4	100	25	7	**A0608H-SCLCL-06**	**A0608H-SCLCR-06**
	10	12	8	6	5	110	32	9	**A0810J-SCLCL-06**	**A0810J-SCLCR-06**
	12	14	10	7	6	125	38	11	**A1012K-SCLCL-06**	**A1012K-SCLCR-06**

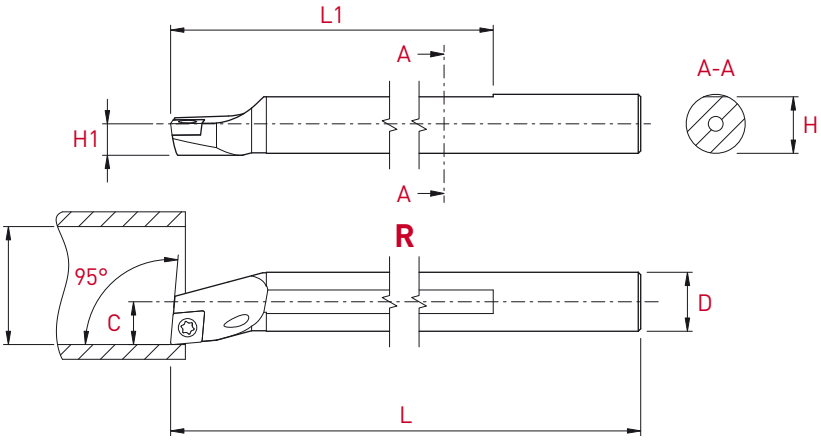
Pour barres d'alésage Für Borstange For boring bar	Pièces de rechange Ersatzteile Spare parts	Options
	Art. N°	**Art. N°**
A0608H_ / A0810J_	**V-M2.5X4.8-T8**	**C-T8**
A1012K_	**V-M2.5X5.8-T8**	

Porte-outils intérieurs
Innenhalter
Internal holders

80°

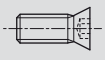
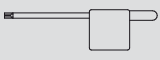
A-SCLCR/L
E-SCLCR/L

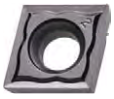
SCL



	Acier / Stahl / Steel							L	R
Plaquettes WSP Inserts	D	D min	C	H1	L	L1	H	Art. N°	Art. N°
CC..-0602	8	11	5	4	80	74	7.5	**A08F-SCLCL-06**	**A08F-SCLCR-06**
	10	13	7	5	100	85	9.5	**A10H-SCLCL-06**	**A10H-SCLCR-06**
	12	16	9	6	125	95	11.5	**A12K-SCLCL-06**	**A12K-SCLCR-06**
CC..-09T3	16	20	11	8	150	117	15.5	**A16M-SCLCL-09**	**A16M-SCLCR-09**

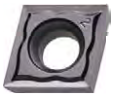
	Carbure de tungstène / Hartmetall / Solid carbide								
	D	D min	C	H1	L	L1	H	Art. N°	Art. N°
CC..-0602	8	9	5	4	125	-	7.5	**E08K-SCLCL-06**	**E08K-SCLCR-06**
	10	11	6	5	125	-	9.5	**E10K-SCLCL-06**	**E10K-SCLCR-06**
	12	13	8	6	150	-	11.5	**E12M-SCLCL-06**	**E12M-SCLCR-06**

	Pièces de rechange Ersatzteile Spare parts	Options
Pour barres d'alésage Für Borstange For boring bar		
	Art. N°	Art. N°
A08F_ / E08K_	**V-M2.5X4.8-T8**	**C-T8**
A10H_ /E10H_	**V-M2.5X5.8-T8**	**C-T8**
A16M_	**V-M3.5X7.2-T15-ISO**	**C-T15**



CCGT FN-X8

R	Art. N°	PVD TiAlN (P M N S)	PVD TiN (P M N)	PVD HTA (P M N S)	non revêtu unbeschichtet uncoated K20 (N S)	non revêtu unbeschichtet uncoated K10 (N S)
~6 R						
0.05	CCGT-0602005-FN-X8	●	●	●	●	●
0.1	CCGT-060201-FN-X8	●	●	●	●	●
0.2	CCGT-060202-FN-X8	●	●	●	●	●
0.4	CCGT-060204-FN-X8	●	●	●	●	●
~9 R						
0.05	CCGT-09T3005-FN-X8	●	●	●	●	●
0.1	CCGT-09T301-FN-X8	●	●	●	●	●
0.2	CCGT-09T302-FN-X8	●	●	●	●	●
0.4	CCGT-09T304-FN-X8	●	●	●	●	●



CCGT ENP-X8

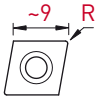
R	Art. N°	PVD TiAlN (P M N S)	PVD TiN (P M N)	non revêtu unbeschichtet uncoated K20 (N)
~6 R				
0.05	CCGT-0602005-ENP-X8	●	●	●
0.1	CCGT-060201-ENP-X8	●	●	●
0.2	CCGT-060202-ENP-X8	●	●	●
0.4	CCGT-060204-ENP-X8	●	●	●
~9 R				
0.05	CCGT-09T3005-ENP-X8	●	●	●
0.1	CCGT-09T301-ENP-X8	●	●	●
0.2	CCGT-09T302-ENP-X8	●	●	●
0.4	CCGT-09T304-ENP-X8	●	●	●

Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

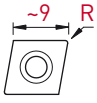
80°

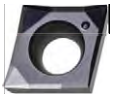
CCGT-X17

CCGT FN-X17

R	Art. N°	PVD ST	PVD TiAlN	PVD TiN	PVD HST	PVD HTA	non revêtu K20	non revêtu K10
0.05	CCGT-0602005-FN-X17	●	●	●	●	●	●	●
0.1	CCGT-060201-FN-X17	●	●	●	●	●	●	●
0.2	CCGT-060202-FN-X17	●	●	●	●	●	●	●
0.4	CCGT-060204-FN-X17	●	●	●	●	●	●	●
								
0.05	CCGT-09T3005-FN-X17	●	●	●	●	●	●	●
0.1	CCGT-09T301-FN-X17	●	●	●	●	●	●	●
0.2	CCGT-09T302-FN-X17	●	●	●	●	●	●	●
0.4	CCGT-09T304-FN-X17	●	●	●	●	●	●	●
0.8	CCGT-09T308-FN-X17	●	●	●	●	●	●	●

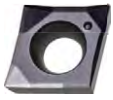
CCGT ENP-X17

R	Art. N°	PVD ST	PVD TiAlN	PVD TiN	non revêtu K20
0.05	CCGT-0602005-ENP-X17	●	●	●	●
0.1	CCGT-060201-ENP-X17	●	●	●	●
0.2	CCGT-060202-ENP-X17	●	●	●	●
0.4	CCGT-060204-ENP-X17	●	●	●	●
					
0.05	CCGT-09T3005-ENP-X17	●	●	●	●
0.1	CCGT-09T301-ENP-X17	●	●	●	●
0.2	CCGT-09T302-ENP-X17	●	●	●	●
0.4	CCGT-09T304-ENP-X17	●	●	●	●
0.8	CCGT-09T308-ENP-X17	●		●	●



CCGT FN-X25

R	Art. N°	PVD TiAlN (P M N S)	PVD TiN (P M N)	PVD HTA (P M N S)	non revêtu K20 (N)	non revêtu K10 (N)
0.05	CCGT-0602005-FN-X25	●	●	●	●	●
0.1	CCGT-060201-FN-X25	●	●	●	●	●
0.2	CCGT-060202-FN-X25	●	●	●	●	●
0.4	CCGT-060204-FN-X25	●	●	●	●	●
0.05	CCGT-09T3005-FN-X25	●	●	●	●	●
0.1	CCGT-09T301-FN-X25	●	●	●	●	●
0.2	CCGT-09T302-FN-X25	●	●	●	●	●
0.4	CCGT-09T304-FN-X25	●	●	●	●	●
0.8	CCGT-09T308-FN-X25	●	●	●	●	●



CCGT ENP-X25

R	Art. N°	PVD TiAlN (P M N S)	PVD TiN (P M N)	non revêtu K20 (N)
0.05	CCGT-0602005-ENP-X25	●	●	●
0.1	CCGT-060201-ENP-X25	●	●	●
0.2	CCGT-060202-ENP-X25	●	●	●
0.4	CCGT-060204-ENP-X25	●	●	●
0.05	CCGT-09T3005-ENP-X25	●	●	●
0.1	CCGT-09T301-ENP-X25	●	●	●
0.2	CCGT-09T302-ENP-X25	●	●	●
0.4	CCGT-09T304-ENP-X25	●	●	●
0.8	CCGT-09T308-ENP-X25	●	●	●

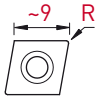
Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

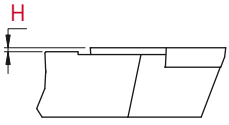
80°

CCGT-X20

CCGT
ENP-X20

R	H	Art. N°	PVD ZTA	PVD HTiX
0.1	0.2	**CCGT-060201-ENP-X20**	●	
0.2	0.2	**CCGT-060202-ENP-X20**	●	●
0.4	0.2	**CCGT-060204-ENP-X20**	●	●
0.1	0.25	**CCGT-09T301-ENP-X20**	●	
0.2	0.25	**CCGT-09T302-ENP-X20**	●	●
0.4	0.25	**CCGT-09T304-ENP-X20**	●	●
0.8	0.25	**CCGT-09T308-ENP-X20**	●	●





CCMT-XF3 / CCMT-XF2
CCMT-MF2

80°

Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

CCMT EN-XF3

R	Art. N°	PVD TAC (P M N S)	PVD HTAC (P M N S)
~6 R			
0.1	CCMT-060201-EN-XF3	●	●
0.2	CCMT-060202-EN-XF3	●	●
0.4	CCMT-060204-EN-XF3	●	●
~9 R			
0.1	CCMT-09T301-EN-XF3	●	●
0.2	CCMT-09T302-EN-XF3	●	●
0.4	CCMT-09T304-EN-XF3	●	●

CCMT EN-XF2

R	Art. N°	PVD TAC (P M N S)	PVD HTAC (P M N S)	CVD HTi5 (P M)
~6 R				
0.2	CCMT-060202-EN-XF2	●	●	●
0.4	CCMT-060204-EN-XF2	●	●	●
~9 R				
0.2	CCMT-09T302-EN-XF2	●	●	●
0.4	CCMT-09T304-EN-XF2	●	●	●

CCMT EN-MF2

R	Art. N°	PVD TAC (P M N S)	PVD HTAC (P M N S)	CVD Ti5 (P M)	CVD HTi5 (P M)
~6 R					
0.2	CCMT-060202-EN-MF2	●	●	●	●
0.4	CCMT-060204-EN-MF2	●	●	●	●
~9 R					
0.2	CCMT-09T302-EN-MF2	●	●	●	●
0.4	CCMT-09T304-EN-MF2	●	●	●	●
0.8	CCMT-09T308-EN-MF2	●	●	●	●

Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

80°

CCMT-MF / CCMT-HF3 CCMT-HF

CCMT EN-MF

R	Art. N°	PVD Tmax	CVD Ti4	CVD Ti7
~6 R				
0.2	CCMT-060202-EN-MF	●	●	●
0.4	CCMT-060204-EN-MF	●	●	●
~9 R				
0.2	CCMT-09T302-EN-MF	●	●	●
0.4	CCMT-09T304-EN-MF	●	●	●

CCMT EN-HF3

R	Art. N°	PVD TiX	PVD HTiX	CVD Ti6
~6 R				
0.2	CCMT-060202-EN-HF3	●	●	●
0.4	CCMT-060204-EN-HF3	●	●	●
~9 R				
0.2	CCMT-09T302-EN-HF3	●	●	●
0.4	CCMT-09T304-EN-HF3	●	●	●
0.8	CCMT-09T308-EN-HF3	●	●	●

CCMT EN-HF

R	Art. N°	PVD Tmax	PVD TAC	CVD Ti4	CVD Ti5	CVD HTi5
~6 R						
0.2	CCMT-060202-EN-HF		●		●	●
0.4	CCMT-060204-EN-HF	●	●	●	●	●
0.8	CCMT-060208-EN-HF	●	●	●	●	●
~9 R						
0.2	CCMT-09T302-EN-HF		●		●	●
0.4	CCMT-09T304-EN-HF	●	●	●	●	●
0.8	CCMT-09T308-EN-HF	●	●	●	●	●

CCGT FN-X8

R	Art. N°	CERMET PVD CTA	CERMET non revêtu unbeschichtet uncoated CN6
~6 R			
0.05	CCGT-0602005-FN-X8	●	●
0.1	CCGT-060201-FN-X8	●	●
0.2	CCGT-060202-FN-X8	●	●
~9 R			
0.05	CCGT-09T3005-FN-X8	●	●
0.1	CCGT-09T301-FN-X8	●	●
0.2	CCGT-09T302-FN-X8	●	●
0.4	CCGT-09T304-FN-X8	●	●

CCGT ENP-KX

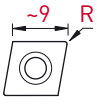
R	Art. N°	CERMET PVD CT7	CERMET PVD HCT7	CERMET non revêtu unbeschichtet uncoated CN6
~6 R				
0.1	CCGT-060201-ENP-KX	●	●	●
0.2	CCGT-060202-ENP-KX	●	●	●
0.4	CCGT-060204-ENP-KX	●	●	●
~9 R				
0.1	CCGT-09T301-ENP-KX	●	●	●
0.2	CCGT-09T302-ENP-KX	●	●	●
0.4	CCGT-09T304-ENP-KX	●	●	●

Plaquettes CERMET
CERMET-Wendeplatten
CERMET inserts

80°

CCMT-KM

CCMT EN-KM

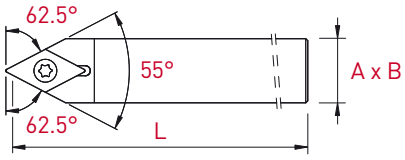


R	Art. N°	CERMET		
		PVD		non revêtu unbeschichtet uncoated
		P M	P M	P
		CT7	HCT7	CN6
0.2	CCMT-060202-EN-KM	●	●	●
0.4	CCMT-060204-EN-KM	●	●	●
0.2	CCMT-09T302-EN-KM	●	●	●
0.4	CCMT-09T304-EN-KM	●	●	●
0.8	CCMT-09T308-EN-KM	●	●	●

SDN

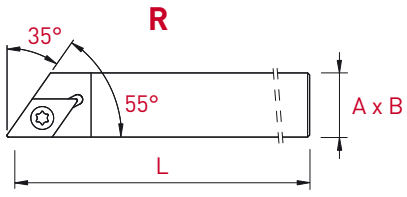
55°

Porte-outils
Halter
Holders



SDN

Plaquettes WSP Inserts	A x B	L	Art. N°
DC..-0702..	8 x 8	115	**SDNCN-0808X-07**
	10 x 10	115	**SDNCN-1010X-07**
	12 x 12	130	**SDNCN-1212X-07**
	12 x 12	90	**SDNCN-1212G-07**
	12.7 x 12.7	130	**SDNCN-12.7X-07**
	16 x 16	130	**SDNCN-1616X-07**
	16 x 16	75	**SDNCN-1616F-07**
DC..-11T3..	12 x 12	130	**SDNCN-1212X-11**
	12 x 12	90	**SDNCN-1212G-11**
	12.7 x 12.7	130	**SDNCN-12.7X-11**
	16 x 16	130	**SDNCN-1616X-11**
	16 x 16	75	**SDNCN-1616F-11**
	20 x 20	120	**SDNCN-2020X-11**



SDA

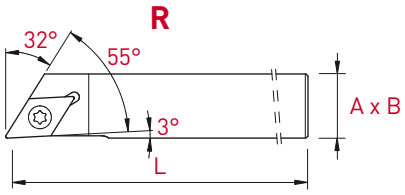
Plaquettes WSP Inserts	A x B	L	L **Art. N°**	R **Art. N°**
DC..-0702..	8 x 8	115	**SDACL-0808X-07**	**SDACR-0808X-07**
	10 x 10	115	**SDACL-1010X-07**	**SDACR-1010X-07**
	12 x 12	130	**SDACL-1212X-07**	**SDACR-1212X-07**
	12 x 12	90	**SDACL-1212G-07**	**SDACR-1212G-07**
	12.7 x 12.7	130	**SDACL-12.7X-07**	**SDACR-12.7X-07**
	16 x 16	130	**SDACL-1616X-07**	**SDACR-1616X-07**
	16 x 16	75	**SDACL-1616F-07**	**SDACR-1616F-07**
DC..-11T3..	12 x 12	130	**SDACL-1212X-11**	**SDACR-1212X-11**
	12 x 12	90	**SDACL-1212G-11**	**SDACR-1212G-11**
	12.7 x 12.7	130	**SDACL-12.7X-11**	**SDACR-12.7X-11**
	16 x 16	130	**SDACL-1616X-11**	**SDACR-1616X-11**
	16 x 16	75	**SDACL-1616F-11**	**SDACR-1616F-11**
	20 x 20	120	**SDACL-2020X-11**	**SDACR-2020X-11**

SDJ

55°

Porte-outils
Halter
Holders

SDJ



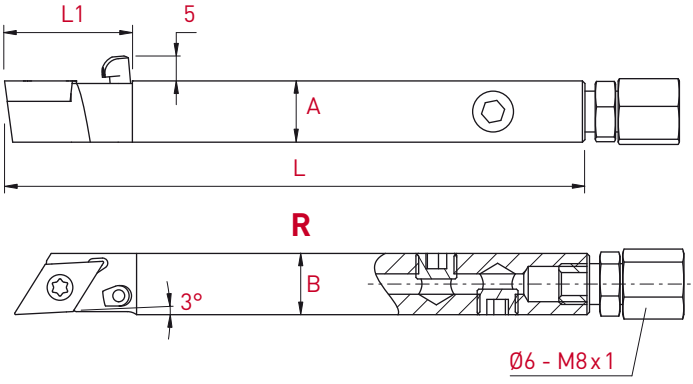
Plaquettes WSP Inserts	A x B	L	L Art. N°	R Art. N°
DC..-0702..	8 x 8	115	SDJCL-0808X-07	SDJCR-0808X-07
	10 x 10	115	SDJCL-1010X-07	SDJCR-1010X-07
	12 x 12	130	SDJCL-1212X-07	SDJCR-1212X-07
	12 x 12	90	SDJCL-1212G-07	SDJCR-1212G-07
	12.7 x 12.7	130	SDJCL-12.7X-07	SDJCR-12.7X-07
	16 x 16	130	SDJCL-1616X-07	SDJCR-1616X-07
	16 x 16	75	SDJCL-1616F-07	SDJCR-1616F-07
	20 x 20	120	SDJCL-2020X-07	SDJCR-2020X-07
DC..-11T3..	12 x 12	130	SDJCL-1212X-11	SDJCR-1212X-11
	12 x 12	90	SDJCL-1212G-11	SDJCR-1212G-11
	12.7 x 12.7	130	SDJCL-12.7X-11	SDJCR-12.7X-11
	16 x 16	130	SDJCL-1616X-11	SDJCR-1616X-11
	16 x 16	75	SDJCL-1616F-11	SDJCR-1616F-11
	20 x 20	120	SDJCL-2020X-11	SDJCR-2020X-11

Porte-outils avec arrosage intégré
Halter mit integrierter Kühlmittelzufuhr
Holders with integrated coolant supply

55°

SDJ-JET

SDJ

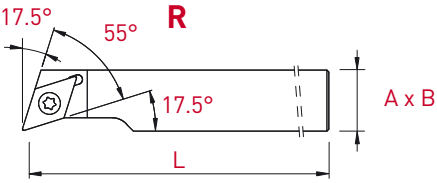


				L	R
Plaquettes WSP Inserts	A x B	L	L1	Art. N°	Art. N°
DC..-0702..	10 x 10	110	20	SDJCL-1010J-07-JET	SDJCR-1010J-07-JET
	12 x 12	110	20	SDJCL-1212J-07-JET	SDJCR-1212J-07-JET
	12.7 x 12.7	110	20	SDJCL-12.7J-07-JET	SDJCR-12.7J-07-JET
	16 x 16	110	20	SDJCL-1616J-07-JET	SDJCR-1616J-07-JET
	20 x 20	110	20	SDJCL-2020J-07-JET	SDJCR-2020J-07-JET
DC..-11T3..	12 x 12	110	23	SDJCL-1212J-11-JET	SDJCR-1212J-11-JET
	12.7 x 12.7	110	23	SDJCL-12.7J-11-JET	SDJCR-12.7J-11-JET
	16 x 16	110	23	SDJCL-1616J-11-JET	SDJCR-1616J-11-JET
	20 x 20	110	23	SDJCL-2020J-11-JET	SDJCR-2020J-11-JET

SDH

55°

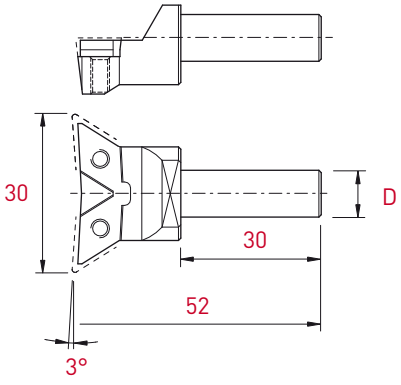
Porte-outils
Halter
Holders



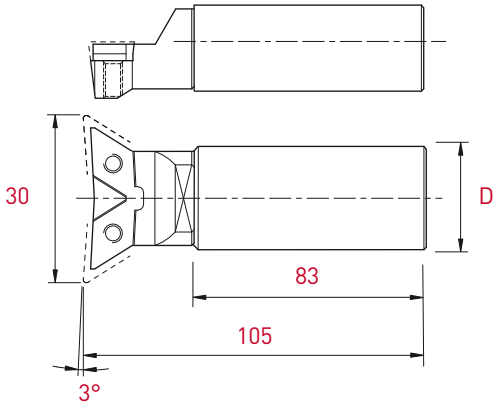
SDH

Plaquettes WSP Inserts	A x B	L	L **Art. N°**	R **Art. N°**
DC..-0702..	10 x 10	115	**SDHCL-1010X-07**	**SDHCR-1010X-07**
	12 x 12	130	**SDHCL-1212X-07**	**SDHCR-1212X-07**
	12 x 12	90	**SDHCL-1212G-07**	**SDHCR-1212G-07**
	12.7 x 12.7	130	**SDHCL-12.7X-07**	**SDHCR-12.7X-07**
	16 x 16	130	**SDHCL-1616X-07**	**SDHCR-1616X-07**
	16 x 16	75	**SDHCL-1616F-07**	**SDHCR-1616F-07**
DC..-11T3..	16 x 16	130	**SDHCL-1616X-11**	**SDHCR-1616X-11**
	16 x 16	75	**SDHCL-1616F-11**	**SDHCR-1616F-11**
	20 x 20	120	**SDHCL-2020X-11**	**SDHCR-2020X-11**

SDU



Plaquettes WSP Inserts	D	Art. N°
DC..-11T3..	10	**SDUC-D10X-11**

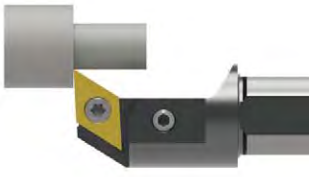


Plaquettes WSP Inserts	D	Art. N°
DC..-11T3..	20	**SDUC-D20X-11**
	25.4	**SDUC-D25.4X-11**

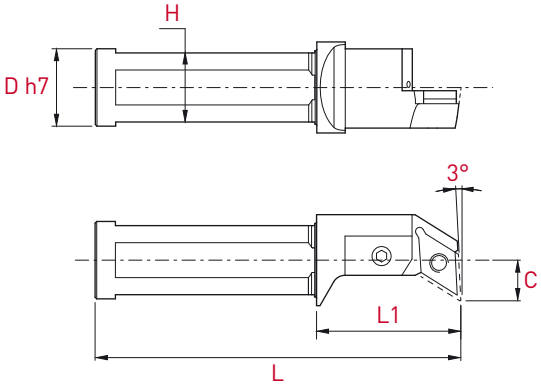
SDUCL-JET

55°

Porte-outils
Halter
Holders

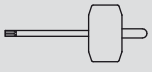


SDUCL



Plaquettes WSP Inserts	D	C	H	L	L1	Art. N°
DC..-11T3..	19.05	10	17	90	35.5	**SDUCL-D19.05-90-11-JET**
DC..-11T3..	20	10	17	90	35.5	**SDUCL-D20-90-11-JET**

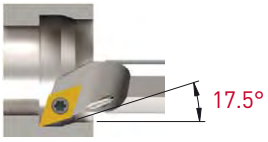
Pièces de rechange Ersatzteile Spare parts	
Art. N°	**Art. N°**
V-M4X9-T15	**V-M5x5-BN24**

Options	
	
Art. N°	**Art. N°**
C-T15	**JS-M5-D4**

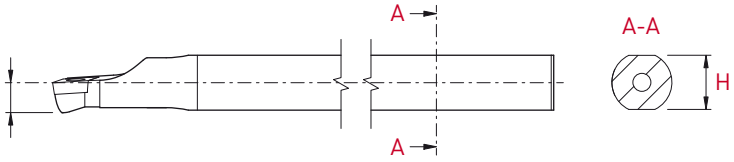
Porte-outils intérieurs amincis
Verjüngte Innenhalter
Thinned internal holders

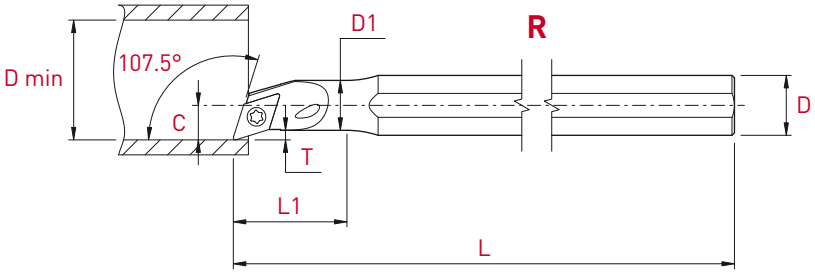
55°

A-SDQCR/L

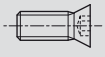
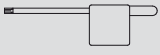


SDQ





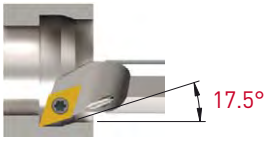
	Acier / Stahl / Steel									L	R
Plaquettes WSP Inserts	D	D min	D1	T	C	H1	L	L1	H	Art. N°	Art. N°
DC..-0702	10	12.5	8	2.4	7	5	100	22	9	**A0810H-SDQCL-07**	**A0810H-SDQCR-07**
	12	15.5	10	2.9	9	6	125	28	11	**A1012K-SDQCL-07**	**A1012K-SDQCR-07**

	Pièces de rechange Ersatzteile Spare parts	Options
Pour barres d'alésage Für Borstange For boring bar		
	Art. N°	Art. N°
A0810H_	**V-M2.5X4.8-T8**	**C-T8**
A1012K_	**V-M2.5X5.8-T8**	

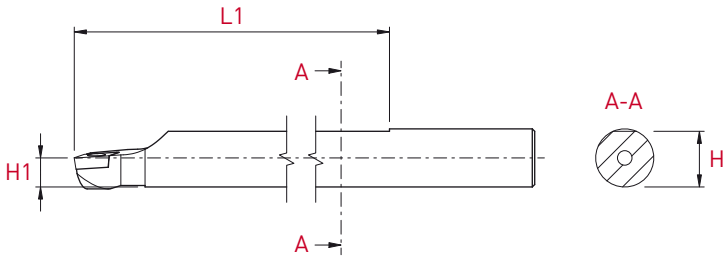
A-SDQCR/L
E-SDQCR/L

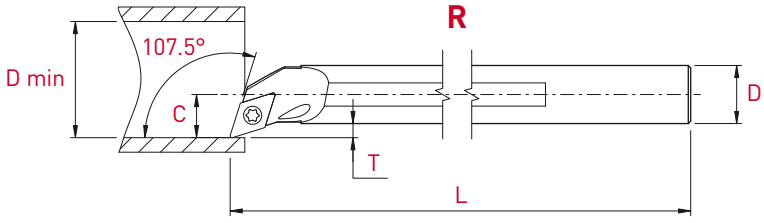
55°

Porte-outils intérieurs
Innenhalter
Internal holders



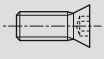
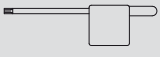
SDQ





	Acier / Stahl / Steel								L	R
Plaquettes WSP Inserts	D	D min	T	C	H1	L	L1	H	Art. N°	Art. N°
DC..-0702	10	14	2.4	7	4.5	100	85	9.5	**A10H-SDQCL-07**	**A10H-SDQCR-07**
	12	17	2.9	9	6	125	95	11.5	**A12K-SDQCL-07**	**A12K-SDQCR-07**
	16	21	2.9	11	8	150	117	15.5	**A16M-SDQCL-07**	**A16M-SDQCR-07**

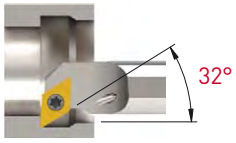
	Carbure de tungstène / Hartmetall / Solid carbide									
	D	D min	T	C	H1	L	L1	H	Art. N°	Art. N°
DC..-0702	10	13	2.4	7.5	5	125	-	9.5	**E10K-SDQCL-07**	**E10K-SDQCR-07**
	12	17	2.9	9	6	150	-	11.5	**E12M-SDQCL-07**	**E12M-SDQCR-07**

Pièces de rechange Ersatzteile Spare parts	Options
	
Art. N°	**Art. N°**
V-M2.5X5.8-T8	**C-T8**

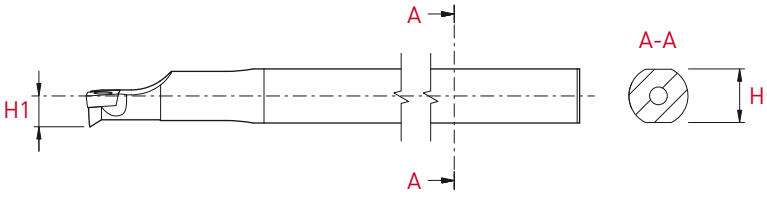
Porte-outils intérieurs amincis
Verjüngte Innenhalter
Thinned internal holders

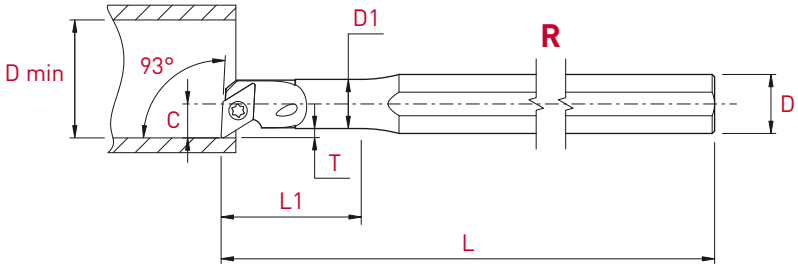
55°

A-SDUCR/L

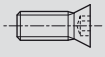
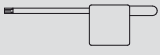


SDU





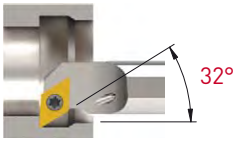
	Acier / Stahl / Steel									L	R
Plaquettes WSP Inserts	D	D min	D1	T	C	H1	L	L1	H	Art. N°	Art. N°
DC..-0702	10	12.5	8	1.9	7	5	100	22	9	**A0810H-SDUCL-07**	**A0810H-SDUCR-07**
	12	15.5	10	2.9	9	6	125	28	11	**A1012K-SDUCL-07**	**A1012K-SDUCR-07**

	Pièces de rechange Ersatzteile Spare parts	Options
Pour barres d'alésage Für Borstange For boring bar		
	Art. N°	Art. N°
A0810H_	**V-M2.5X4.8-T8**	**C-T8**
A1012K_	**V-M2.5X5.8-T8**	

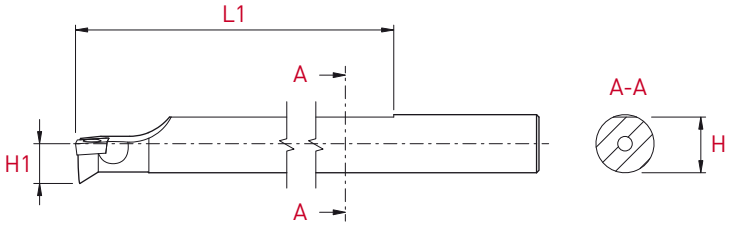
A-SDUCR/L
E-SDUCR/L

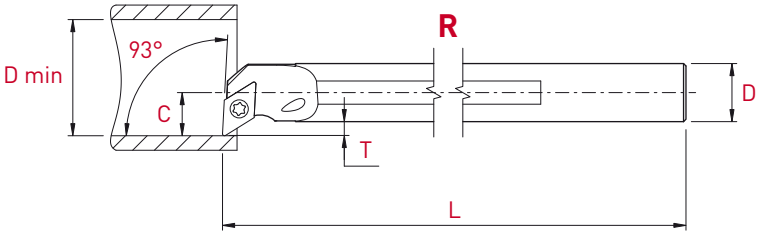
55°

Porte-outils intérieurs
Innenhalter
Internal holders



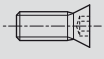
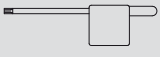
SDU





	Acier / Stahl / Steel								L	R
Plaquettes WSP Inserts	D	D min	T	C	H1	L	L1	H	Art. N°	Art. N°
DC..-0702	10	14	1.9	7	5	100	85	9.5	**A10H-SDUCL-07**	**A10H-SDUCR-07**
	12	17	2.9	9	6	125	95	11.5	**A12K-SDUCL-07**	**A12K-SDUCR-07**
	16	21	2.9	11	8	150	117	15.5	**A16M-SDUCL-07**	**A16M-SDUCR-07**

	Carbure de tungstène / Hartmetall / Solid carbide									
	D	D min	T	C	H1	L	L1	H	Art. N°	Art. N°
DC..-0702	10	14	1.9	7	5	125	-	9.5	**E10K-SDUCL-07**	**E10K-SDUCR-07**
	12	17	2.9	9	6	150	-	11.5	**E12M-SDUCL-07**	**E12M-SDUCR-07**

Pièces de rechange Ersatzteile Spare parts	Options
	
Art. N°	**Art. N°**
V-M2.5X5.8-T8	**C-T8**

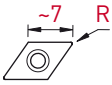
Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

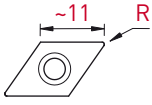
55°

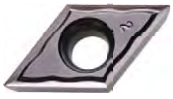
DCGT-X8

DCGT FN-X8

		PVD					non revêtu unbeschichtet uncoated	
		P M N S	P M S	P M N	P M N S	P M S	N S	N S
R	Art. N°	TiAlN	TiAlX	TiN	HTA	HTAX	K20	K10
0.05	DCGT-0702005-FN-X8	●	●	●	●	●	●	●
0.08	DCGT-0702008-FN-X8	●	●		●	●	●	●
0.1	DCGT-070201-FN-X8	●	●	●	●	●	●	●
0.15	DCGT-0702015-FN-X8	●	●		●	●	●	●
0.2	DCGT-070202-FN-X8	●	●	●	●	●	●	●
0.4	DCGT-070204-FN-X8	●	●	●	●	●	●	●
0.05	DCGT-11T3005-FN-X8	●	●	●	●	●	●	●
0.08	DCGT-11T3008-FN-X8	●	●		●	●	●	●
0.1	DCGT-11T301-FN-X8	●	●	●	●	●	●	●
0.15	DCGT-11T3015-FN-X8	●	●		●	●	●	●
0.2	DCGT-11T302-FN-X8	●	●	●	●	●	●	●
0.4	DCGT-11T304-FN-X8	●	●	●	●	●	●	●

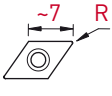


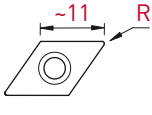




DCGT ENP-X8

		PVD		non revêtu unbeschichtet uncoated
		P M N S	P M N	N
R	Art. N°	TiAlN	TiN	K20
0.05	DCGT-0702005-ENP-X8	●	●	●
0.08	DCGT-0702008-ENP-X8	●		●
0.1	DCGT-070201-ENP-X8	●	●	●
0.15	DCGT-0702015-ENP-X8	●		●
0.2	DCGT-070202-ENP-X8	●	●	●
0.4	DCGT-070204-ENP-X8	●	●	●
0.05	DCGT-11T3005-ENP-X8	●	●	●
0.08	DCGT-11T3008-ENP-X8	●		●
0.1	DCGT-11T301-ENP-X8	●	●	●
0.15	DCGT-11T3015-ENP-X8	●		●
0.2	DCGT-11T302-ENP-X8	●	●	●
0.4	DCGT-11T304-ENP-X8	●	●	●





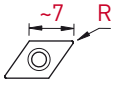
DCGT-X17

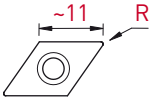
55°

Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

DCGT FN-X17

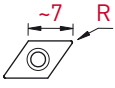
R	Art. N°	PVD ST	PVD TiAlN	PVD TiAlX	PVD TiN	PVD HST	PVD HTA	PVD HTAX	non revêtu K20	non revêtu K10
0.05	DCGT-0702005-FN-X17	●	●	●	●	●	●	●	●	●
0.08	DCGT-0702008-FN-X17	●	●	●		●	●	●	●	●
0.1	DCGT-070201-FN-X17	●	●	●	●	●	●	●	●	●
0.15	DCGT-0702015-FN-X17	●	●	●		●	●	●	●	●
0.2	DCGT-070202-FN-X17	●	●	●	●	●	●	●	●	●
0.4	DCGT-070204-FN-X17	●	●	●	●	●	●	●	●	●
0.05	DCGT-11T3005-FN-X17	●	●	●	●	●	●	●	●	●
0.08	DCGT-11T3008-FN-X17	●	●	●		●	●	●	●	●
0.1	DCGT-11T301-FN-X17	●	●	●	●	●	●	●	●	●
0.15	DCGT-11T3015-FN-X17	●	●	●		●	●	●	●	●
0.2	DCGT-11T302-FN-X17	●	●	●	●	●	●	●	●	●
0.4	DCGT-11T304-FN-X17	●	●	●	●	●	●	●	●	●
0.8	DCGT-11T308-FN-X17	●	●	●	●	●	●	●	●	●

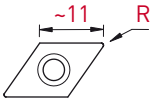




DCGT ENP-X17

R	Art. N°	PVD ST	PVD TiAlN	PVD TiN	non revêtu K20
0.05	DCGT-0702005-ENP-X17	●	●	●	●
0.08	DCGT-0702008-ENP-X17	●	●		●
0.1	DCGT-070201-ENP-X17	●	●	●	●
0.15	DCGT-0702015-ENP-X17	●	●		●
0.2	DCGT-070202-ENP-X17	●	●	●	●
0.4	DCGT-070204-ENP-X17	●	●	●	●
0.05	DCGT-11T3005-ENP-X17	●	●	●	●
0.08	DCGT-11T3008-ENP-X17	●	●		●
0.1	DCGT-11T301-ENP-X17	●	●	●	●
0.15	DCGT-11T3015-ENP-X17	●	●		●
0.2	DCGT-11T302-ENP-X17	●	●	●	●
0.4	DCGT-11T304-ENP-X17	●	●	●	●
0.8	DCGT-11T308-ENP-X17	●	●	●	●





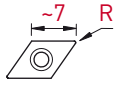
Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

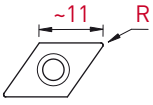
55°

DCGT-X25

DCGT FN-X25

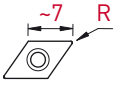
		PVD			non revêtu unbeschichtet uncoated	
		P M N S	P M N	P M N S		
R	Art. N°	TiAlN	TiN	HTA	K20	K10
0.05	DCGT-0702005-FN-X25	●	●	●	●	●
0.1	DCGT-070201-FN-X25	●	●	●	●	●
0.2	DCGT-070202-FN-X25	●	●	●	●	●
0.4	DCGT-070204-FN-X25	●	●	●	●	●
0.05	DCGT-11T3005-FN-X25	●	●	●	●	●
0.1	DCGT-11T301-FN-X25	●	●	●	●	●
0.2	DCGT-11T302-FN-X25	●	●	●	●	●
0.4	DCGT-11T304-FN-X25	●	●	●	●	●
0.8	DCGT-11T308-FN-X25	●	●	●	●	●

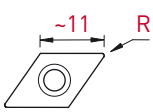




DCGT ENP-X25

		PVD			non revêtu unbeschichtet uncoated
		P M N S	P M S	P M N	
R	Art. N°	TiAlN	TiAlX	TiN	K20
0.05	DCGT-0702005-ENP-X25	●	●	●	●
0.1	DCGT-070201-ENP-X25	●	●	●	●
0.2	DCGT-070202-ENP-X25	●	●	●	●
0.4	DCGT-070204-ENP-X25	●	●	●	●
0.05	DCGT-11T3005-ENP-X25	●	●	●	●
0.1	DCGT-11T301-ENP-X25	●	●	●	●
0.2	DCGT-11T302-ENP-X25	●	●	●	●
0.4	DCGT-11T304-ENP-X25	●	●	●	●
0.8	DCGT-11T308-ENP-X25	●	●	●	●



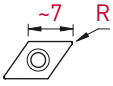


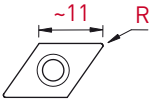
DCGT-X20

55°

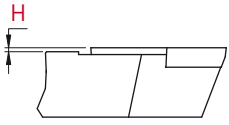
Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

DCGT ENP-X20

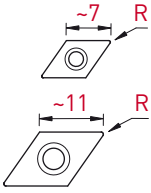




R	H	Art. N°	PVD ZTA	PVD HTiX
0.1	0.2	DCGT-070201-ENP-X20	●	
0.2	0.2	DCGT-070202-ENP-X20	●	●
0.4	0.2	DCGT-070204-ENP-X20	●	●
0.1	0.25	DCGT-11T301-ENP-X20	●	
0.2	0.25	DCGT-11T302-ENP-X20	●	●
0.4	0.25	DCGT-11T304-ENP-X20	●	●
0.8	0.25	DCGT-11T308-ENP-X20	●	●

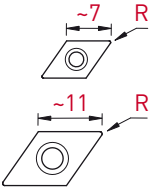


DCMT EN-XF3



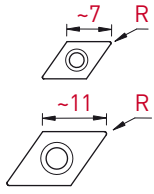
R	Art. N°	PVD P M N S TAC	PVD P M N S HTAC
0.1	DCMT-070201-EN-XF3	●	●
0.2	DCMT-070202-EN-XF3	●	●
0.4	DCMT-070204-EN-XF3	●	●
0.1	DCMT-11T301-EN-XF3	●	●
0.2	DCMT-11T302-EN-XF3	●	●
0.4	DCMT-11T304-EN-XF3	●	●

DCMT EN-XF2



R	Art. N°	PVD P M N S TAC	PVD P M N S HTAC	CVD P M HTi5
0.2	DCMT-070202-EN-XF2	●	●	●
0.4	DCMT-070204-EN-XF2	●	●	●
0.2	DCMT-11T302-EN-XF2	●	●	●
0.4	DCMT-11T304-EN-XF2	●	●	●

DCMT EN-MF2



R	Art. N°	PVD P M N S TAC	PVD P M N S HTAC	CVD P M Ti5	CVD P M HTi5
0.2	DCMT-070202-EN-MF2	●	●	●	●
0.4	DCMT-070204-EN-MF2	●	●	●	●
0.2	DCMT-11T302-EN-MF2	●	●	●	●
0.4	DCMT-11T304-EN-MF2	●	●	●	●
0.8	DCMT-11T308-EN-MF2	●	●	●	●

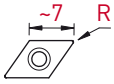
DCMT-MF / DCMT-HF3
DCMT-HF

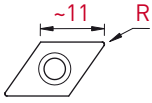
55°

Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

DCMT EN-MF

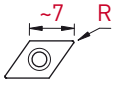
R	Art. N°	PVD Tmax	CVD Ti4	CVD Ti7
		P M	P M	P M S
0.2	DCMT-070202-EN-MF	●	●	●
0.4	DCMT-070204-EN-MF	●	●	●
0.2	DCMT-11T302-EN-MF	●	●	●
0.4	DCMT-11T304-EN-MF	●	●	●

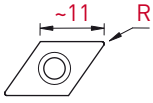




DCMT EN-HF3

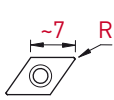
R	Art. N°	PVD TiX	PVD HTiX	CVD Ti6
		P M	P M	P M
0.2	DCMT-070202-EN-HF3	●	●	●
0.4	DCMT-070204-EN-HF3	●	●	●
0.2	DCMT-11T302-EN-HF3	●	●	●
0.4	DCMT-11T304-EN-HF3	●	●	●
0.8	DCMT-11T308-EN-HF3	●	●	●

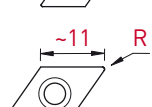




DCMT EN-HF

R	Art. N°	PVD Tmax	PVD TAC	CVD Ti4	CVD Ti5	CVD HTi5
		P M	P M	P M	P M	P M
0.2	DCMT-070202-EN-HF		●		●	●
0.4	DCMT-070204-EN-HF	●	●	●	●	●
0.8	DCMT-070208-EN-HF	●	●	●	●	●
0.2	DCMT-11T302-EN-HF		●		●	●
0.4	DCMT-11T304-EN-HF	●	●	●	●	●
0.8	DCMT-11T308-EN-HF	●	●	●	●	●





DCGT FN-X8

R	Art. N°	CERMET PVD CTA	CERMET non revêtu unbeschichtet uncoated CN6
~7 R			
0.05	DCGT-0702005-FN-X8	●	●
0.1	DCGT-070201-FN-X8	●	●
0.2	DCGT-070202-FN-X8	●	●
~11 R			
0.05	DCGT-11T3005-FN-X8	●	●
0.1	DCGT-11T301-FN-X8	●	●
0.2	DCGT-11T302-FN-X8	●	●
0.4	DCGT-11T304-FN-X8	●	●

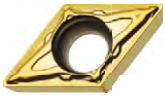
DCGT ENP-KX

R	Art. N°	CERMET PVD CT7	CERMET PVD HCT7	CERMET non revêtu unbeschichtet uncoated CN6
~7 R				
0.1	DCGT-070201-ENP-KX	●	●	●
0.2	DCGT-070202-ENP-KX	●	●	●
0.4	DCGT-070204-ENP-KX	●	●	●
~11 R				
0.1	DCGT-11T301-ENP-KX	●	●	●
0.2	DCGT-11T302-ENP-KX	●	●	●
0.4	DCGT-11T304-ENP-KX	●	●	●

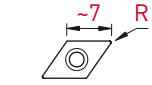
DCMT-KM

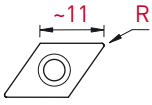
55°

Plaquettes CERMET
CERMET-Wendeplatten
CERMET inserts

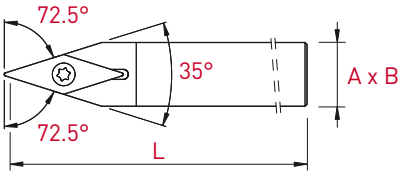


DCMT EN-KM





R	Art. N°	CERMET PVD CT7 (P, M)	CERMET PVD HCT7 (P, M)	CERMET non revêtu unbeschichtet uncoated CN6 (P)
0.2	DCMT-070202-EN-KM	●	●	●
0.4	DCMT-070204-EN-KM	●	●	●
0.2	DCMT-11T302-EN-KM	●	●	●
0.4	DCMT-11T304-EN-KM	●	●	●
0.8	DCMT-11T308-EN-KM	●	●	●



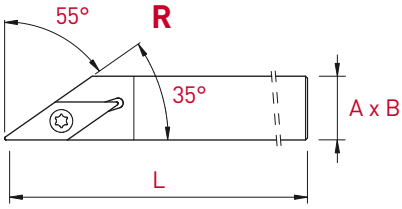
SVV

Plaquettes WSP Inserts	A x B	L	Art. N°
VC..-1103..	8 x 8	115	**SVVCN-0808X-11**
	10 x 10	115	**SVVCN-1010X-11**
	12 x 12	130	**SVVCN-1212X-11**
	12 x 12	90	**SVVCN-1212G-11**
	12.7 x 12.7	130	**SVVCN-12.7X-11**
	16 x 16	130	**SVVCN-1616X-11**
	16 x 16	75	**SVVCN-1616F-11**
	20 x 20	120	**SVVCN-2020X-11**
VC..-1303..	8 x 10	115	**SVVCN-0810X-13**
	10 x 10	115	**SVVCN-1010X-13**
	12 x 12	130	**SVVCN-1212X-13**
	12 x 12	90	**SVVCN-1212G-13**
	12.7 x 12.7	130	**SVVCN-12.7X-13**
	16 x 16	130	**SVVCN-1616X-13**
	16 x 16	75	**SVVCN-1616F-13**
	20 x 20	120	**SVVCN-2020X-13**
VC..-1604..	12 x 12	130	**SVVCN-1212X-16**
	12 x 12	90	**SVVCN-1212G-16**
	12.7 x 12.7	130	**SVVCN-12.7X-16**
	16 x 16	130	**SVVCN-1616X-16**
	16 x 16	75	**SVVCN-1616F-16**
	20 x 20	120	**SVVCN-2020X-16**

SVA

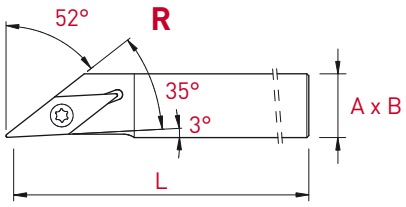
35°

Porte-outils
Halter
Holders



SVA

Plaquettes WSP Inserts	A x B	L	L Art. N°	R Art. N°
VC..-1103..	8 x 8	115	**SVACL-0808X-11**	**SVACR-0808X-11**
	10 x 10	115	**SVACL-1010X-11**	**SVACR-1010X-11**
	12 x 12	130	**SVACL-1212X-11**	**SVACR-1212X-11**
	12 x 12	90	**SVACL-1212G-11**	**SVACR-1212G-11**
	12.7 x 12.7	130	**SVACL-12.7X-11**	**SVACR-12.7X-11**
	16 x 16	130	**SVACL-1616X-11**	**SVACR-1616X-11**
	16 x 16	75	**SVACL-1616F-11**	**SVACR-1616F-11**
	20 x 20	120	**SVACL-2020X-11**	**SVACR-2020X-11**
VC..-1604..	12 x 12	130	**SVACL-1212X-16**	**SVACR-1212X-16**
	12 x 12	90	**SVACL-1212G-16**	**SVACR-1212G-16**
	12.7 x 12.7	130	**SVACL-12.7X-16**	**SVACR-12.7X-16**
	16 x 16	130	**SVACL-1616X-16**	**SVACR-1616X-16**
	16 x 16	75	**SVACL-1616F-16**	**SVACR-1616F-16**
	20 x 20	120	**SVACL-2020X-16**	**SVACR-2020X-16**



SVJ

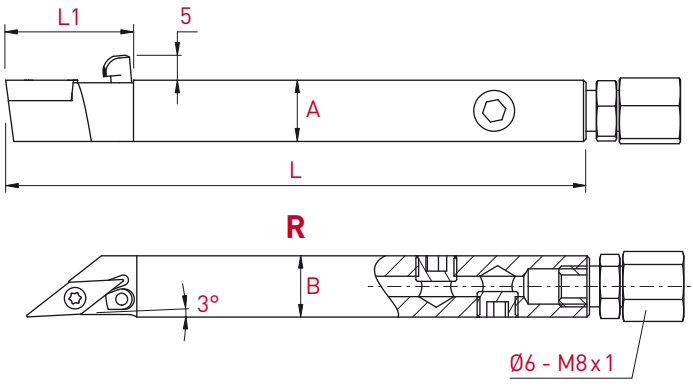
			L	R
Plaquettes WSP Inserts	A x B	L	**Art. N°**	**Art. N°**
VC..-1103..	8 x 8	115	**SVJCL-0808X-11**	**SVJCR-0808X-11**
	10 x 10	115	**SVJCL-1010X-11**	**SVJCR-1010X-11**
	12 x 12	130	**SVJCL-1212X-11**	**SVJCR-1212X-11**
	12 x 12	90	**SVJCL-1212G-11**	**SVJCR-1212G-11**
	12.7 x 12.7	130	**SVJCL-12.7X-11**	**SVJCR-12.7X-11**
	16 x 16	130	**SVJCL-1616X-11**	**SVJCR-1616X-11**
	16 x 16	75	**SVJCL-1616F-11**	**SVJCR-1616F-11**
	20 x 20	120	**SVJCL-2020X-11**	**SVJCR-2020X-11**
VC..-1303..	8 x 10	115	**SVJCL-0810X-13**	**SVJCR-0810X-13**
	10 x 10	115	**SVJCL-1010X-13**	**SVJCR-1010X-13**
	12 x 12	130	**SVJCL-1212X-13**	**SVJCR-1212X-13**
	12 x 12	90	**SVJCL-1212G-13**	**SVJCR-1212G-13**
	12.7 x 12.7	130	**SVJCL-12.7X-13**	**SVJCR-12.7X-13**
	16 x 16	130	**SVJCL-1616X-13**	**SVJCR-1616X-13**
	16 x 16	75	**SVJCL-1616F-13**	**SVJCR-1616F-13**
	20 x 20	120	**SVJCL-2020X-13**	**SVJCR-2020X-13**
VC..-1604..	12 x 12	130	**SVJCL-1212X-16**	**SVJCR-1212X-16**
	12 x 12	90	**SVJCL-1212G-16**	**SVJCR-1212G-16**
	12.7 x 12.7	130	**SVJCL-12.7X-16**	**SVJCR-12.7X-16**
	16 x 16	130	**SVJCL-1616X-16**	**SVJCR-1616X-16**
	16 x 16	75	**SVJCL-1616F-16**	**SVJCR-1616F-16**
	20 x 20	120	**SVJCL-2020X-16**	**SVJCR-2020X-16**

SVJ-JET

35°

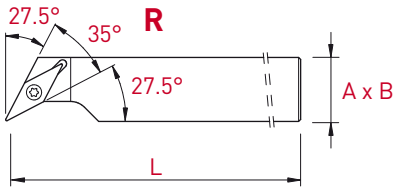
Porte-outils avec arrosage intégré
Halter mit integrierter Kühlmittelzufuhr
Holders with integrated coolant supply

SVJ



				L	R
Plaquettes WSP Inserts	A x B	L	L1	Art. N°	Art. N°
VC..-1103..	10 x 10	110	21	SVJCL-1010J-11-JET	SVJCR-1010J-11-JET
	12 x 12	110	21	SVJCL-1212J-11-JET	SVJCR-1212J-11-JET
	12.7 x 12.7	110	21	SVJCL-12.7J-11-JET	SVJCR-12.7J-11-JET
	16 x 16	110	21	SVJCL-1616J-11-JET	SVJCR-1616J-11-JET
	20 x 20	110	21	SVJCL-2020J-11-JET	SVJCR-2020J-11-JET
VC..-1303..	10 x 10	110	26	SVJCL-1010J-13-JET	SVJCR-1010J-13-JET
	12 x 12	110	26	SVJCL-1212J-13-JET	SVJCR-1212J-13-JET
	12.7 x 12.7	110	26	SVJCL-12.7J-13-JET	SVJCR-12.7J-13-JET
	16 x 16	110	26	SVJCL-1616J-13-JET	SVJCR-1616J-13-JET
	20 x 20	110	26	SVJCL-2020J-13-JET	SVJCR-2020J-13-JET
VC..-1604..	12 x 12	110	30	SVJCL-1212J-16-JET	SVJCR-1212J-16-JET
	12.7 x 12.7	110	30	SVJCL-12.7J-16-JET	SVJCR-12.7J-16-JET
	16 x 16	110	30	SVJCL-1616J-16-JET	SVJCR-1616J-16-JET
	20 x 20	110	30	SVJCL-2020J-16-JET	SVJCR-2020J-16-JET

SVX



			L	R
Plaquettes WSP Inserts	A x B	L	**Art. N°**	**Art. N°**
VC..-1103..	16 x 16	130	**SVXCL-1616X-11**	**SVXCR-1616X-11**
	16 x 16	75	**SVXCL-1616F-11**	**SVXCR-1616F-11**
	20 x 20	120	**SVXCL-2020X-11**	**SVXCR-2020X-11**

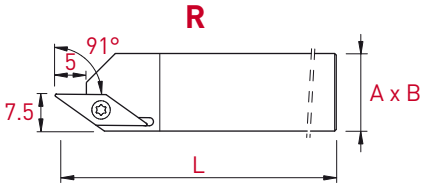
SV-CL/R

35°

Porte-outils
Halter
Holders

SV-CL/R

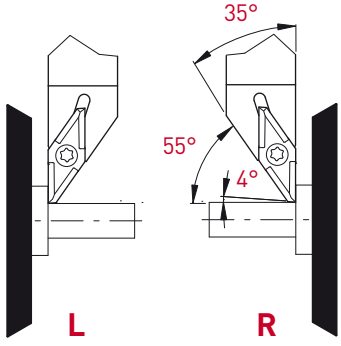
tournage arrière
rückwärts drehen
back turning



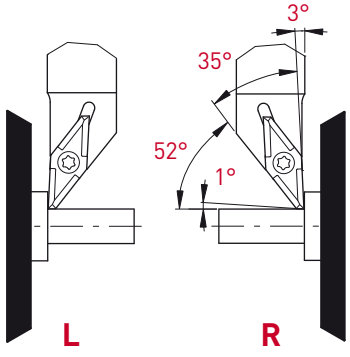
Plaquettes WSP Inserts	A x B	L	L Art. N°	R Art. N°
VC**G**..-1103..	12 x 12	130	**SV-CL-1212X-11**	**SV-CR-1212X-11**
	12 x 12	90	**SV-CL-1212G-11**	**SV-CR-1212G-11**
	12.7 x 12.7	130	**SV-CL-12.7X-11**	**SV-CR-12.7X-11**
	16 x 16	130	**SV-CL-1616X-11**	**SV-CR-1616X-11**
	16 x 16	75	**SV-CL-1616F-11**	**SV-CR-1616F-11**
	20 x 20	120	**SV-CL-2020X-11**	**SV-CR-2020X-11**

Porte-outils compatibles avec plaquettes VCGT ELP/ERP-FL/FR-X10°
Passende Halter zu den Wendeplatten VCGT ELP/ERP-FL/FR-X10°
Holders compatible with inserts VCGT ELP/ERP-FL/FR-X10°

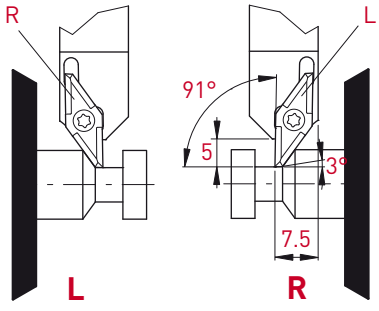
35°



	Art. N°
R	SVACR-...-11
L	SVACL-...-11



	Art. N°
R	SVJCR-...-11
L	SVJCL-...-11

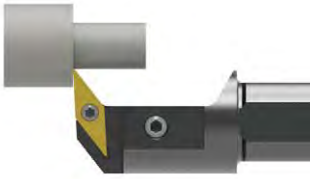


	Art. N°
R	SV-CR-...-11
L	SV-CL-...-11

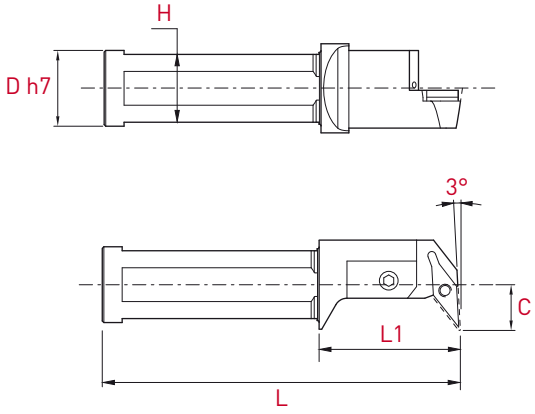
SVUCL-JET

35°

Porte-outils avec arrosage intégré
Halter mit integrierter Kühlmittelzufuhr
Holders with integrated coolant supply

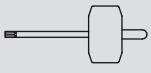


SVUCL



Plaquettes WSP Inserts	D	C	H	L	L1	Art. N°
VC..-1103..	19.05	10	17	90	35.5	**SVUCL-D19.05-90-11-JET**
VC..-1103..	20	10	17	90	35.5	**SVUCL-D20-90-11-JET**

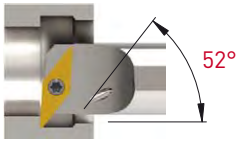
Pièces de rechange Ersatzteile Spare parts	
Art. N°	**Art. N°**
V-M4X9-T15	**V-M5x5-BN24**

Options	
	
Art. N°	**Art. N°**
C-T15	**JS-M5-D4**

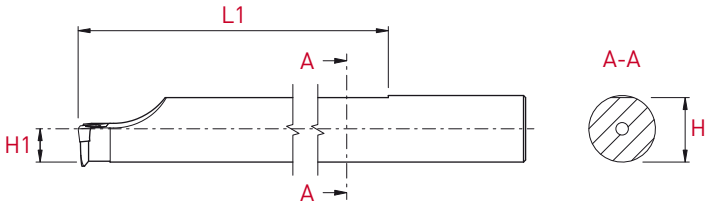
Porte-outils intérieurs
Innenhalter
Internal holders

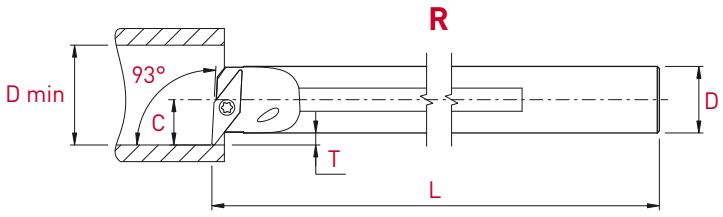
35°

A-SVUCR/L

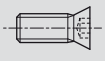
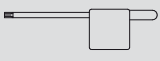


SVU





	Acier / Stahl / Steel								L	R
Plaquettes WSP Inserts	D	Dmin	T	C	H1	L	L1	H	Art. N°	Art. N°
VC..-1103	16	21	3.1	11	8	150	118	15.5	**A16M-SVUCL-11**	**A16M-SVUCR-11**

Pièces de rechange Ersatzteile Spare parts	Options
	
Art. N°	**Art. N°**
V-M2.5X5.8-T8	**C-T8**

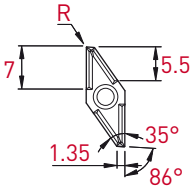
VCGT-L/R-X10

35°

Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

VCGT FL / FR-X10

L

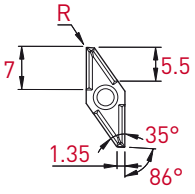


R

R	Art. N°	PVD ST	PVD TiAlN	PVD HTA	PVD TiAlX	PVD HTAX	PVD TiN	PVD HST	non revêtu unbeschichtet uncoated K10	non revêtu unbeschichtet uncoated K20
0.03	VCGT-1103003-FL-X10	●	●	●			●	●	●	●
0.08	VCGT-1103008-FL-X10	●	●	●			●	●	●	●
0.1	VCGT-110301-FL-X10	●	●	●			●	●	●	●
0.2	VCGT-110302-FL-X10	●	●	●			●	●	●	●
0.03	VCGT-1103003-FR-X10	●	●	●	●	●	●	●	●	●
0.08	VCGT-1103008-FR-X10	●	●	●	●	●	●	●	●	●
0.1	VCGT-110301-FR-X10	●	●	●	●	●	●	●	●	●
0.2	VCGT-110302-FR-X10	●	●	●	●	●	●	●	●	●

VCGT ELP/ERP-X10

L



R

R	Art. N°	PVD ST	PVD TiAlN	PVD HTA	PVD TiAlX	PVD HTAX	PVD TiN	non revêtu unbeschichtet uncoated K10	non revêtu unbeschichtet uncoated K20
0.03	VCGT-1103003-ELP-X10	●	●	●			●	●	●
0.08	VCGT-1103008-ELP-X10	●	●	●			●	●	●
0.1	VCGT-110301-ELP-X10	●	●	●			●	●	●
0.2	VCGT-110302-ELP-X10	●	●	●			●	●	●
0.03	VCGT-1103003-ERP-X10	●	●	●	●	●	●	●	●
0.08	VCGT-1103008-ERP-X10	●	●	●	●	●	●	●	●
0.1	VCGT-110301-ERP-X10	●	●	●	●	●	●	●	●
0.2	VCGT-110302-ERP-X10	●	●	●	●	●	●	●	●

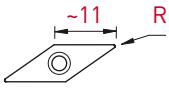
Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

35°

VCGT-K18
VCGW-0

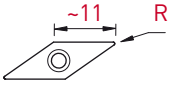
VCGT FN-K18

R	Art. N°	PVD HTA	PVD HTiN	non revêtu K10
0.05	VCGT-1103005-FN-K18	●	●	●
0.1	VCGT-110301-FN-K18	●	●	●
0.2	VCGT-110302-FN-K18	●	●	●
0.4	VCGT-110304-FN-K18	●	●	●



VCGW FN-0

R	Art. N°	PVD HTA	PVD HTiN	non revêtu K10
0.05	VCGW-1103005-FN-0	●	●	●
0.1	VCGW-110301-FN-0	●	●	●
0.2	VCGW-110302-FN-0	●	●	●
0.4	VCGW-110304-FN-0	●	●	●



VCGT-X8

35°

Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

VCGT FN-X8

R	Art. N°	PVD TiAlN (PMNS)	PVD TiAlX (PMS)	PVD TiN (PMN)	PVD HTA (PMNS)	PVD HTAX (PMS)	non revêtu K20 (NS)	non revêtu K10 (NS)
0.05	VCGT-1103005-FN-X8	●	●	●	●	●	●	●
0.08	VCGT-1103008-FN-X8	●	●		●	●	●	●
0.1	VCGT-110301-FN-X8	●	●	●	●	●	●	●
0.15	VCGT-1103015-FN-X8	●	●		●	●	●	●
0.2	VCGT-110302-FN-X8	●	●	●	●	●	●	●
0.4	VCGT-110304-FN-X8	●	●	●	●	●	●	●
0.05	VCGT-1303005-FN-X8	●		●	●		●	●
0.1	VCGT-130301-FN-X8	●		●	●		●	●
0.2	VCGT-130302-FN-X8	●		●	●		●	●
0.4	VCGT-130304-FN-X8	●		●	●		●	●
0.05	VCGT-1604005-FN-X8	●		●	●		●	●
0.1	VCGT-160401-FN-X8	●		●	●		●	●
0.2	VCGT-160402-FN-X8	●		●	●		●	●
0.4	VCGT-160404-FN-X8	●		●	●		●	●

VCGT ENP-X8

R	Art. N°	PVD TiAlN (PMNS)	PVD TiN (PMN)	non revêtu K20 (N)
0.05	VCGT-1103005-ENP-X8	●	●	●
0.08	VCGT-1103008-ENP-X8	●		●
0.1	VCGT-110301-ENP-X8	●	●	●
0.15	VCGT-1103015-ENP-X8	●		●
0.2	VCGT-110302-ENP-X8	●	●	●
0.4	VCGT-110304-ENP-X8	●	●	●
0.05	VCGT-1303005-ENP-X8	●		●
0.1	VCGT-130301-ENP-X8	●		●
0.2	VCGT-130302-ENP-X8	●		●
0.4	VCGT-130304-ENP-X8	●		●
0.05	VCGT-1604005-ENP-X8	●	●	●
0.1	VCGT-160401-ENP-X8	●	●	●
0.2	VCGT-160402-ENP-X8	●	●	●
0.4	VCGT-160404-ENP-X8	●	●	●

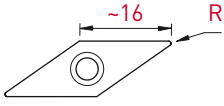
Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

35°

VCGT-X17

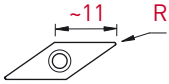
VCGT FN-X17

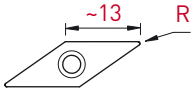
R	Art. N°	PVD ST	PVD TiAlN	PVD TiN	PVD HST	PVD HTA	PVD HTAX	non revêtu K20	non revêtu K10
0.05	VCGT-1103005-FN-X17	●	●	●	●	●	●	●	●
0.08	VCGT-1103008-FN-X17	●	●		●	●	●	●	●
0.1	VCGT-110301-FN-X17	●	●	●	●	●	●	●	●
0.15	VCGT-1103015-FN-X17	●	●		●	●	●	●	●
0.2	VCGT-110302-FN-X17	●	●	●	●	●	●	●	●
0.4	VCGT-110304-FN-X17	●	●	●	●	●	●	●	●
0.05	VCGT-1303005-FN-X17	●	●	●	●	●		●	●
0.1	VCGT-130301-FN-X17	●	●	●	●	●		●	●
0.2	VCGT-130302-FN-X17	●	●	●	●	●		●	●
0.4	VCGT-130304-FN-X17	●	●	●	●	●		●	●
0.05	VCGT-1604005-FN-X17	●	●	●	●	●		●	●
0.1	VCGT-160401-FN-X17	●	●	●	●	●		●	●
0.2	VCGT-160402-FN-X17	●	●	●	●	●		●	●
0.4	VCGT-160404-FN-X17	●	●	●	●	●		●	●
0.8	VCGT-160408-FN-X17	●	●	●	●	●		●	●

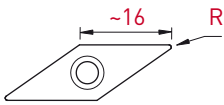


VCGT ENP-X17

R	Art. N°	PVD ST	PVD TiAlN	PVD TiN	non revêtu K20
0.05	VCGT-1103005-ENP-X17	●	●	●	●
0.08	VCGT-1103008-ENP-X17	●	●		●
0.1	VCGT-110301-ENP-X17	●	●	●	●
0.15	VCGT-1103015-ENP-X17	●	●		●
0.2	VCGT-110302-ENP-X17	●	●	●	●
0.4	VCGT-110304-ENP-X17	●	●	●	●
0.05	VCGT-1303005-ENP-X17	●	●		●
0.1	VCGT-130301-ENP-X17	●	●		●
0.2	VCGT-130302-ENP-X17	●	●		●
0.4	VCGT-130304-ENP-X17	●	●		●
0.05	VCGT-1604005-ENP-X17	●	●	●	●
0.1	VCGT-160401-ENP-X17	●	●	●	●
0.2	VCGT-160402-ENP-X17	●	●	●	●
0.4	VCGT-160404-ENP-X17	●	●	●	●
0.8	VCGT-160408-ENP-X17	●	●	●	●







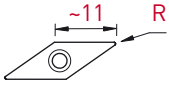
VCGT-X25

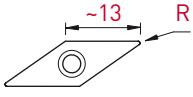
35°

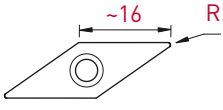
Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

VCGT FN-X25

		PVD			non revêtu unbeschichtet uncoated	
		P M N S	P M N	P M N S		N
R	Art. N°	TiAlN	TiN	HTA	K20	K10
0.05	VCGT-1103005-FN-X25	●	●	●	●	●
0.1	VCGT-110301-FN-X25	●	●	●	●	●
0.2	VCGT-110302-FN-X25	●	●	●	●	●
0.4	VCGT-110304-FN-X25	●	●	●	●	●
0.05	VCGT-1303005-FN-X25	●	●	●	●	●
0.1	VCGT-130301-FN-X25	●	●	●	●	●
0.2	VCGT-130302-FN-X25	●	●	●	●	●
0.4	VCGT-130304-FN-X25	●	●	●	●	●
0.8	VCGT-130308-FN-X25	●	●	●	●	●
0.05	VCGT-1604005-FN-X25	●	●	●	●	●
0.1	VCGT-160401-FN-X25	●	●	●	●	●
0.2	VCGT-160402-FN-X25	●	●	●	●	●
0.4	VCGT-160404-FN-X25	●	●	●	●	●
0.8	VCGT-160408-FN-X25	●	●	●	●	●

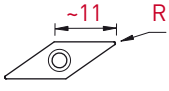


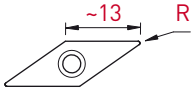


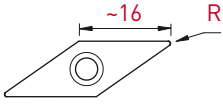


VCGT ENP-X25

		PVD			non revêtu unbeschichtet uncoated
		P M N S	P M S	P M N	N
R	Art. N°	TiAlN	TiAlX	TiN	K20
0.05	VCGT-1103005-ENP-X25	●	●	●	●
0.1	VCGT-110301-ENP-X25	●	●	●	●
0.2	VCGT-110302-ENP-X25	●	●	●	●
0.4	VCGT-110304-ENP-X25	●	●	●	●
0.05	VCGT-1303005-ENP-X25	●			●
0.1	VCGT-130301-ENP-X25	●			●
0.2	VCGT-130302-ENP-X25	●			●
0.4	VCGT-130304-ENP-X25	●			●
0.8	VCGT-130308-ENP-X25	●			●
0.05	VCGT-1604005-ENP-X25	●		●	●
0.1	VCGT-160401-ENP-X25	●		●	●
0.2	VCGT-160402-ENP-X25	●		●	●
0.4	VCGT-160404-ENP-X25	●		●	●
0.8	VCGT-160408-ENP-X25	●		●	●





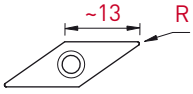


Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

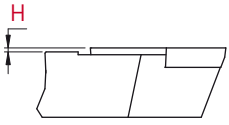
35°

VCGT-X20

VCGT ENP-X20



R	H	Art. N°	PVD ZTA	PVD HTiX
0.2	0.25	**VCGT-130302-ENP-X20**	●	●
0.4	0.25	**VCGT-130304-ENP-X20**	●	●
0.8	0.25	**VCGT-130308-ENP-X20**	●	●

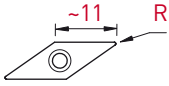


VCMT-XF3
VCMT-XF2

35°

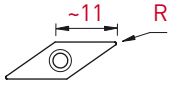
Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

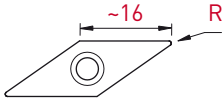
VCMT EN-XF3



R	Art. N°	PVD P M N S TAC	PVD P M N S HTAC
0.1	VCMT-110301-EN-XF3	●	●
0.2	VCMT-110302-EN-XF3	●	●
0.4	VCMT-110304-EN-XF3	●	●

VCMT EN-XF2





R	Art. N°	PVD P M N S TAC	PVD P M N S HTAC	CVD P M HTi5
0.2	VCMT-110302-EN-XF2	●	●	●
0.4	VCMT-110304-EN-XF2	●	●	●
0.4	VCMT-160404-EN-XF2	●	●	●

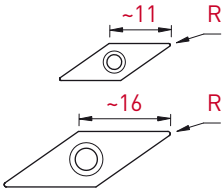
Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

35°

VCMT-MF
VCMT-HF

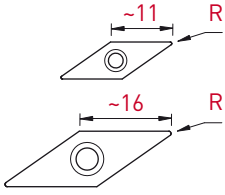
VCMT EN-MF

R	Art. N°	PVD Tmax	CVD Ti4	CVD Ti7
		P M	P M	P M S
0.2	VCMT-110302-EN-MF	●	●	●
0.4	VCMT-110304-EN-MF	●	●	●
0.4	VCMT-160404-EN-MF	●	●	●



VCMT EN-HF

R	Art. N°	PVD Tmax	CVD Ti4
		P M	P M
0.4	VCMT-110304-EN-HF	●	●
0.8	VCMT-110308-EN-HF	●	●
0.4	VCMT-160404-EN-HF	●	●
0.8	VCMT-160408-EN-HF	●	●

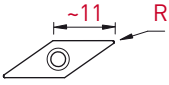


VCGT-X8

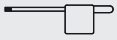
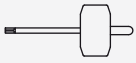
35°

Plaquettes CERMET
CERMET-Wendeplatten
CERMET inserts

VCGT FN-X8



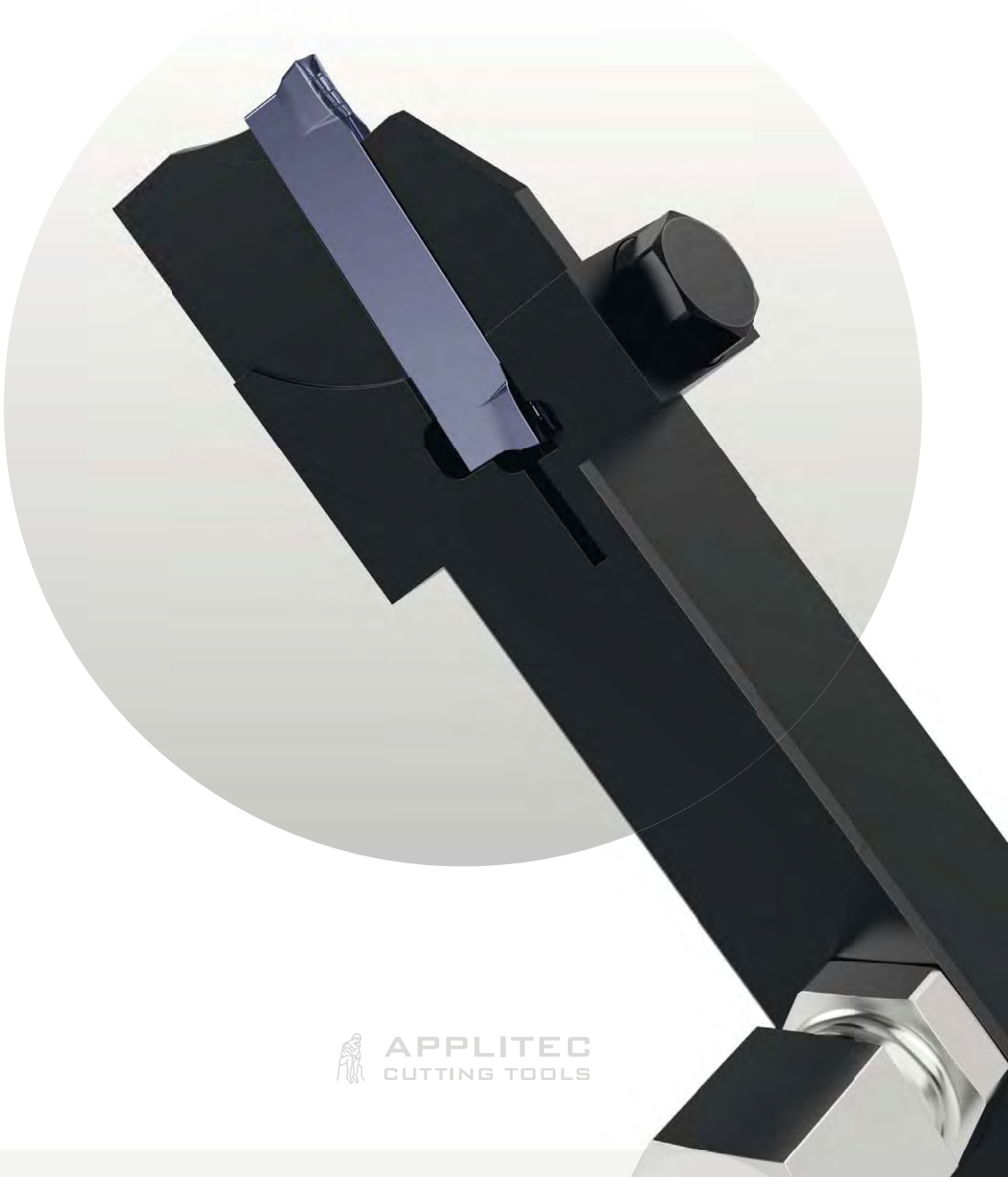
R	Art. N°	CERMET PVD CTA	CERMET non revêtu unbeschichtet uncoated CN6
0.05	**VCGT-1103005-FN-X8**	●	●
0.1	**VCGT-110301-FN-X8**	●	●
0.2	**VCGT-110302-FN-X8**	●	●
0.4	**VCGT-110304-FN-X8**	●	●

	Porte-outils Halter Holders	Vis Schrauben Screw	Options Clé Schlüssel Key	 Clé dynamométrique Drehmomentschlüssel Torque wrench	Serrage Drehmoment Torque
Vis de rechange Ersatzschrauben Spare screws	Series SC...-06 Series SD...-07 Series SV...-11	**V-M2.5X7.8-T8**	**C-T8** 	**SET-NM1.5-TX8**	1.3 Nm
	Series SV...-13	**V-M3X7.3-T8-ISO**			2.0 Nm
	Series SC...-09 Series SD...-11 Series SV...-16	**V-M4X9-T15-ISO**	**C-T15** 	**SET-NM3.0-TX15**	3.0 Nm

	L Pour réf. Für Ref. For ref.	*	*	*
		Art. N°	**Art. N°**	**Art. N°**
Pièces de rechange JET Ersatzteile JET Spare parts JET	S...L-10...-JET	**JJL-4X12-D1.5**	**J-M8X1-D6**	**JB-M8X1**
	S...L-12...-JET S...L-12.7...-JET	**JJL-4X14-D1.5**		
	S...L-16...-JET S...L-20...-JET	**JJL-4X17-D1.5**		
	R Pour réf. Für Ref. For ref.	*	*	*
		Art. N°	**Art. N°**	**Art. N°**
	S...R-10...-JET	**JJR-4X12-D1.5**	**J-M8X1-D6**	**JB-M8X1**
	S...R-12...-JET S...R-12.7...-JET	**JJR-4X14-D1.5**		
	S...R-16...-JET S...R-20...-JET	**JJR-4X17-D1.5**		

* livré avec chaque porte-outil
mit jedem Halter geliefert
delivered with each holder

EVOCUT-Line



APPLITEC
CUTTING TOOLS

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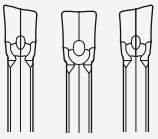
	J	universal geometry	> 10.28
	JS	universal geometry	> 10.30
	T	negative geometry	> 10.31
	TS	negative geometry	> 10.33
	A	strongly positive geometry	> 10.34

Codification
Kodifizierung
Coding guide

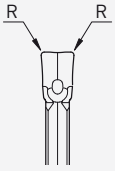
ET	20	-	U	R	-	8	00	Ou / Oder / Or F	-	TIALN

Angle de pointe
Spitzenwinkel
Point angle

L N R



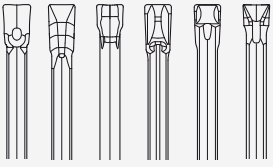
Rayon
Radius
Radius



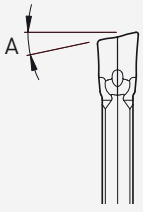
Nuance
Sorte
Grade

Géométrie d'usinage
Bearbeitungsgeometrie
Machining geometry

U J JS T TS A

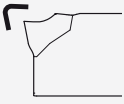


Valeur de l'angle de pointe
Wert des Spitzenwinkels
Value of the point angle



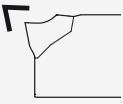
A
0°
6°
8°
12°
15°

Arête de coupe honée
Schneidkantenverrundung
Honed edge



F

Arête de coupe vive
Scharfe Schneidkante
Sharp edge



Epaisseur de coupe
Schnittbreite
Cutting thickness

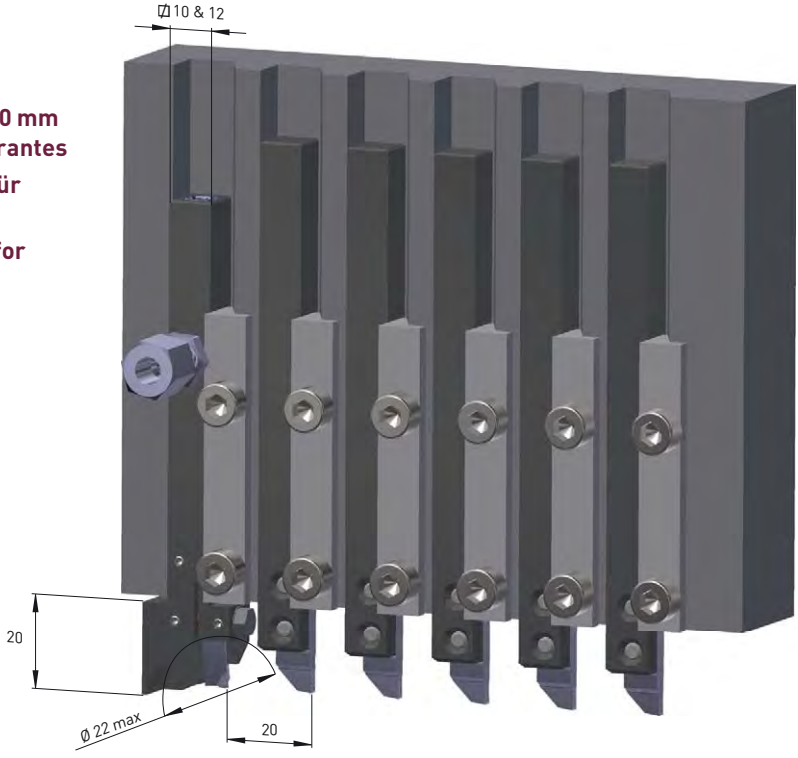
ET 15	1.5 mm	Ø max 32 mm
ET 20	2.0 mm	Ø max 44 mm
ET 25	2.5 mm	
ET 30	3.0 mm	

Applitec EVOCUT-Line	Système performant dédié pour le tronçonnage
Applitec EVOCUT-Line	Leistungsstarkes System für das Abstechen
Applitec EVOCUT-Line	High-performance system for cutting

Compact : seulement 20 mm pour les machines courantes

Kompakt : nur 20 mm für übliche Maschinen

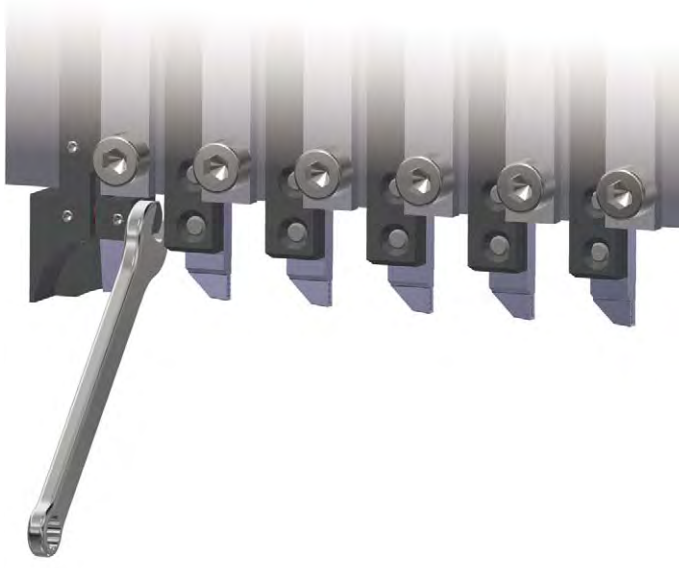
Compact : only 20 mm for current machines



Facilité d'accès

Zugangsleichtigkeit

Excellent accessibility

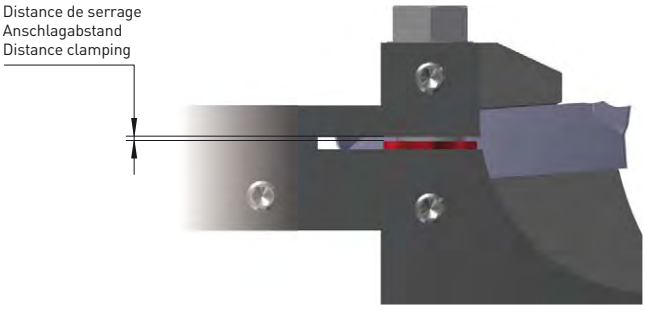


Changement de la plaquette sans démontage

Veränderung der Platte ohne Zerlegung

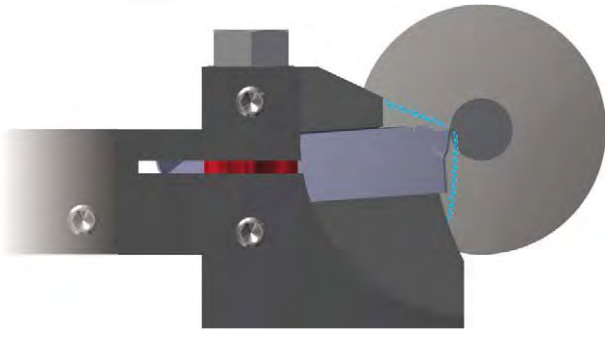
Change of insert without disassembly

Butée de serrage
Spannungs-Anschlag
Clamping stop



Recommandations de serrage :
n'utiliser que la clé fournie
Spannungsempfehlungen :
nur den gelieferten Schlüssel benutzen
Tightening recommendation :
only use the delivered key

Support JET à double lubrification
JET Halter mit doppeltem Schmierung
Jet holder with double lubrification



Porte-outils / Halter / Holders

H

Système de serrage monobloc
Einteiliges Klemmsystem
Monobloc top clamp system

H JET

Porte-outils avec arrosage intégré
Halter mit integrierter Kühlmittelzufuhr
Holders with integrated coolant supply

H-HM-JET
GWS-HM
MS-HM
HSK

Porte-lames avec arrosage
Halter für Stechklinge mit Kühlung
Holder for parting-off blades with coolant

HM
HK
HUK

Lames
Stechklinge
Parting-off blades

Plaquettes / WSP / Inserts

U J JS T TS A

Géométries de coupe
Spanformgeometrie
Cutting geometries

UN | UL UR

- géométrie positive universelle, faibles efforts de coupe
- bonne maîtrise du copeau
- 1er choix pour l'inox

- allgemeine Geometrie, geringe Schnittkräfte
- gute Spankontrolle
- 1. Wahl für rostfreiem Stahl

- all-round geometry, low cutting forces
- efficient chip control
- 1st choice for stainless steel

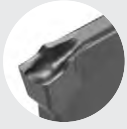
JN | JR

- géométrie universelle
- excellent rétrécissement du copeau pour un meilleur contrôle
- conseillé pour le tronçonnage de pièces à parois minces
- pour acier et inox

- allgemeine Geometrie
- ausgezeichnete Spanverschmälerung für eine bessere Spankontrolle
- für abstechen von dünnwandigen Teilen empfohlen
- für Stahl und rostfreiem Stahl

- all-round geometry
- very efficient arrow for a better chip control
- recommended for parting off of thin-walled parts
- for steel and stainless steel

JSN



- géométrie spéciale et étroite pour un meilleur contrôle du copeau
- recommandé pour l'acier avec faible taux de carbone, alliages Chrome nickel et acier 100Cr6

- spezielle und schmale Geometrie für eine bessere Spankontrolle
- empfohlen für Stahl mit niedrigem Kohlenstoffgehalt sowie Chrom-Nickel-Legierungen und 100Cr6-Stahl

- special and narrow geometry for better chip control
- recommended for low-carbon steel, chrome-nickel alloys and 100Cr6 steel

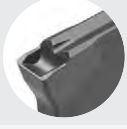
TN | TR

- géométrie négative
- utilisation dans des conditions de rigidité optimale
- pour les matières à haute ténacité
- universel pour les aciers et inox

- negative Geometrie
- bei stabilen Verhältnissen einsetzbar
- für hohe widerstandsfähige Rohstoffe
- allgemein für Stahl und rostfreiem Stahl

- negative geometry
- use in solid cutting conditions
- for high toughness material
- universal for steel and stainless steel

TSN

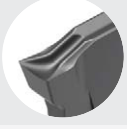


- géométrie négative similaire à TN pour avances modérées depuis 0.05mm/t
- conseillé pour les matières tenaces aciers et inox

- negative Geometrie ähnlich wie TN für moderate Vorschübe ab 0,05 mm/U
- Empfohlen für zähe Werkstoffe, Stahl und rostfreien Stahl

- negative geometry similar to TN for moderate feeds from 0.05 mm/rev
- recommended for tough materials, steel, and stainless steel

AN | AR



- géométrie fortement positive
- roule-copeaux poli avec arêtes de coupe vives
- 1er choix pour aluminium et matériaux non ferreux

- stark positive Geometrie
- geschliffene Spanrolle mit scharfe Schneidkanten
- 1. Wahl für Aluminium und Nichteisenmetalle

- very positive geometry
- polished chip roller with sharp cutting edge
- 1st choice for aluminium and non-ferrous materials

Nuances
Sorten
Grades

TiAlN

Revêtement PVD
PVD Beschichtung
PVD coating

TF F **M** E

P	★★★★★
M	★★★★★
N	★★★★☆
S	★★★★☆

- pour l'usinage des aciers, aciers inoxydables et alliages de titane
- 1er choix pour les avances faibles à modérées

- für die Bearbeitung von Stahl, rostfreien Stahl und Titanlegierungen
- erste Wahl für niedrige bis mittlere Vorschübe

- for machining of steel, stainless steel and titanium alloys
- first choice for low to average cutting speed

Tmax

Revêtement PVD
PVD Beschichtung
PVD coating

TF F M **E**

P	★★★★★
M	★★★★★
N	★★☆☆☆
S	★★☆☆☆

- nuance pour usinage moyen à lourd des aciers, aciers alliés et inoxydables
- bonne résistance aux températures d'usinage élevées
- 1er choix pour le tronçonnage des aciers au carbone et des aciers fortement alliés

- Sorte für mittlere bis hohe Belastung in Stahl und legierter Stahlbearbeitung
- gute Bearbeitungswarmfestigkeit
- erste Wahl für die Bearbeitung von legiertem Kohlenstahl und hoch legiertem Stahl

- grade for medium to heavy machining of steel, stainless steel and alloyed steel
- high machining heat resistance
- first choice for the machining of carbon steel and high alloyed steel

Zmax

Revêtement PVD
PVD Beschichtung
PVD coating

TF F M **E**

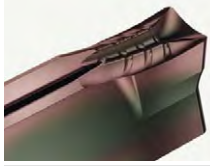
P	★★★★★
M	★★★★★
N	★★☆☆☆
S	★★☆☆☆

- pour l'usinage des aciers, aciers inoxydables et alliages de titane en conditions défavorables
- bonne résistance aux chocs à des vitesses de coupe moyennes à faibles
- 1er choix pour le tronçonnage en coupe interrompue

- für die Bearbeitung von Stahl, rostfreiem Stahl und Titanlegierungen in schwierige Bearbeitungsfälle
- gute Bruchfestigkeit mit durchschnittliche bis niedrige Schnittgeschwindigkeit
- erste Wahl für die Bearbeitung in unterbrochenen Schnitte

- for machining of steel, stainless steel and titanium alloys in unfavourable machining conditions
- good impact resistance with average to low cutting speed
- first choice for machining in interrupted cut

ZTi6



Revêtement CVD
CVD Beschichtung
CVD coating

TF F **M** E

P ★★★★★
M ★★★★☆
N ★☆☆☆☆
S ★★★☆☆

- nuance très tenace
- grande résistance à la température
- 1er choix pour les aciers « haute température »
- également recommandé pour les aciers inox

- sehr zähe Sorte
- hohe Bearbeitungswarmfestigkeit
- erste Wahl für „hohe Temperatur" Stähle
- auch für rostfreie Stähle empfohlen

- very strong grade
- good wear resistance
- first choice for "high temperature" steels
- also recommended for stainless steels

AC

Revêtement PVD
PVD Beschichtung
PVD coating

TF F **M** E

P ☆☆☆☆☆
M ☆☆☆☆☆
N ★★★★★
S ★★★★★

- nuance pour métaux non ferreux
- très faible coefficient de frottement
- 1er choix pour l'usinage des aluminiums, des cuivres et titanes faiblement alliés

- Sorte für Nichteisenmetalle
- sehr geringer Reibwert
- erste Wahl für die Bearbeitung von Aluminium, Kupfer und niedriglegiertem Titan

- grade for non-ferrous materials
- very low friction ratio
- first choice for Aluminium, copper and low alloyed titanium

N

Non revêtu
Unbeschichtet
Uncoated

P ★☆☆☆☆
M ★☆☆☆☆
N ★★★☆☆
S ★★★☆☆

- nuance non revêtue
- recommandé pour l'usinage des matières non ferreuses
- titane, laiton, cuivre, aluminium sans silicium, plastique

- unbeschichtete Sorte
- für die Bearbeitung von Nichteisenmetalle empfohlen
- Titan, Messing, Kupfer, Silicium freies Aluminium, Kunstoff

- uncoated grade
- recommended for machining of non-ferrous materials
- titanium, brass, bronze, aluminium without silicium, plastic

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

★★★★★ ★★★★ ★★★

			ET15	ET20	ET25	ET30	P Acier Stahl Steel — Acier de décolletage Automatenstahl Free-cutting steel VC (m/min)	F (mm/U)	Acier faiblement allié Leicht legierter Stahl Low alloyed steel VC (m/min)	F (mm/U)	Acier fortement allié Legierter Stahl High alloyed steel VC (m/min)	F (mm/U)	M Inox Rostfreistahl Stainless steel — Austénitique et martensitique Austenitisch und martensitisch Austenitic and martensitic VC (m/min)	F (mm/U)
Avance standard Standard Vorschub Standard feed rate	UN	TiAlN	●	●	●	●	90-140	0.04-0.08	60-120	0.04-0.08	50-100	0.04-0.08	50-120	0.04-0.08
		Tmax	●	●	●	●	100-170	0.04-0.08	70-150	0.04-0.08	60-120	0.04-0.08	**60-150**	**0.04-0.08**
		Zmax	●	●	●	●	80-130*	0.04-0.10	50-110*	0.04-0.10	50-90*	0.04-0.10	**50-120***	**0.04-0.10**
		ZTi6		●	●	●	**110-200**	**0.04-0.08**	**80-160**	**0.04-0.08**	**70-140**	**0.04-0.08**	70-160	0.04-0.08
	UR	TiAlN	●	●	●	●	90-140	0.04-0.08	60-120	0.04-0.08	50-100	0.04-0.08	50-120	0.04-0.08
		Tmax	●	●	●	●	100-170	0.04-0.08	70-150	0.04-0.08	60-120	0.04-0.08	**60-150**	**0.04-0.08**
		Zmax	●	●	●	●	80-130*	0.04-0.10	50-110*	0.04-0.10	50-90*	0.04-0.10	**50-120***	**0.04-0.10**
	JN	TiAlN	●	●	●	●	90-140	0.04-0.08	60-120	0.04-0.08	50-100	0.04-0.08	50-120	0.04-0.08
		Tmax	●	●	●	●	**100-170**	**0.04-0.08**	**70-150**	**0.04-0.08**	**60-120**	**0.04-0.08**	**60-150**	**0.04-0.08**
		Zmax	●	●	●	●	80-130*	0.04-0.10	50-110*	0.04-0.10	50-90*	0.04-0.10	**50-120***	**0.04-0.10**
		ZTi6		●	●	●	**110-200**	**0.04-0.08**	**80-160**	**0.04-0.08**	**70-140**	**0.04-0.08**	70-160	0.04-0.08
	JR	TiAlN	●	●	●	●	90-140	0.04-0.08	60-120	0.04-0.08	50-100	0.04-0.08	50-120	0.04-0.08
		Tmax	●	●	●	●	**100-170**	**0.04-0.08**	**70-150**	**0.04-0.08**	**60-120**	**0.04-0.08**	**60-150**	**0.04-0.08**
		Zmax	●	●	●	●	80-130*	0.04-0.10	50-110*	0.04-0.10	50-90*	0.04-0.10	**50-120***	**0.04-0.10**
	JSN	Tmax		●			**80-150**	**0.02-0.1**	**80-170**	**0.02-0.1**	**50-120**	**0.02-0.1**	50-120	0.02-0.1
	TN	TiAlN		●	●	●	90-150	0.08-0.18	70-130	0.08-0.18	50-100	0.08-0.15	50-120	0.08-0.20
		Tmax		●	●	●	100-170	0.08-0.18	**70-150**	**0.08-0.18**	**60-120**	**0.08-0.15**	60-150	0.08-0.20
		Zmax		●	●	●	80-130*	0.08-0.18	50-110*	0.08-0.18	50-90*	0.08-0.15	50-120*	0.08-0.20
		ZTi6		●	●	●	**110-200**	**0.08-0.18**	**80-160**	**0.08-0.18**	**70-140**	**0.08-0.15**	70-160	0.08-0.20
	TR	TiAlN		●	●	●	90-150	0.08-0.18	70-130	0.08-0.18	50-100	0.08-0.15	50-120	0.08-0.20
		Tmax		●	●	●	100-170	0.08-0.18	**70-150**	**0.08-0.18**	**60-120**	**0.08-0.15**	60-150	0.08-0.20
		Zmax		●	●	●	80-130*	0.08-0.18	50-110*	0.08-0.18	50-90*	0.08-0.15	50-120*	0.08-0.20
		ZTi6				●	**110-200**	**0.08-0.18**	**80-160**	**0.08-0.18**	**70-140**	**0.08-0.15**	70-160	0.08-0.20
	TSN	Tmax		●			**80-150**	**0.05-0.15**	**80-170**	**0.05-0.15**	**50-120**	**0.05-0.15**	50-120	0.05-0.15
		Zmax		●			80-130	0.05-0.15	80-150	0.05-0.15	50-100	0.05-0.15	50-100	0.05-0.15
Avance modérée Niedriger Vorschub ** Low feed rate	UN-000F	TiAlN	●	●	●	●	80-120	0.02-0.05	50-100	0.02-0.05	40-80	0.02-0.05	40-100	0.02-0.05
	UR/ULF	TiAlN	●	●	●	●	80-120	0.02-0.05	50-100	0.02-0.05	40-80	0.02-0.05	40-100	0.02-0.05
	ANF	N		●		●								
		TiAlN		●		●							40-80	0.02-0.05
		AC		●		●								
	ARF	N		●		●								
		TiAlN		●		●							40-80	0.02-0.05
		AC		●		●								

* premier choix en cas de coupe interrompue
** arête de coupe vive

* erste Wahl für unterbrochener Schnitt
** scharfe Schneidkante

* first choice for interrupted cut
** sharp cutting edge

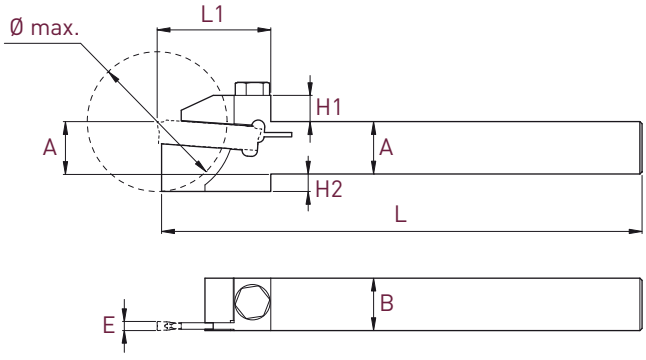
Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

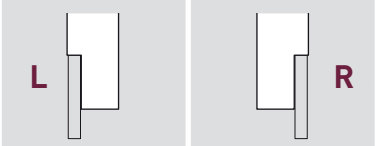
N Alliages d'aluminium et non ferreux Aluminium- und Nichteisenlegierungen Aluminium and non-ferrous alloys								S Titane Titan Titanium			
Aluminium		Alu silicium max. 5% Aluminiumsilicium max. 5% Aluminium silicon max. 5%		Cuivre Kupfer Copper		Laiton & bronze Messing & Bronze Brass & bronze		Gr. 1 - 3		Gr. 4 - 5	
VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)
100-250	0.03-0.10	100-250	0.03-0.10	100-300	0.03-0.10	100-300	0.03-0.10			50-100	0.04-0.08
100-250	0.03-0.10	100-250	0.03-0.10	100-300	0.03-0.10	100-300	0.03-0.10			50-100	0.04-0.08
100-250	0.03-0.10	100-250	0.03-0.10	100-300	0.03-0.10	100-300	0.03-0.10			50-100	0.04-0.08
100-250	0.03-0.10	100-250	0.03-0.10	100-300	0.03-0.10	100-300	0.03-0.10			50-100	0.04-0.08
100-300	0.02-0.1	100-300	0.02-0.1	100-300	0.02-0.1	100-300	0.02-0.1	50-120	0.02-0.1	30-50	0.02-0.1
						150-300	0.05-0.20				
						150-300	0.05-0.20				
						100-300	0.05-0.15				
100-300	0.02-0.06	100-200	0.01-0.05	100-250	0.01-0.05	100-300	0.02-0.06			50-100	0.01-0.06
100-300	0.02-0.06	100-200	0.01-0.05	100-250	0.01-0.05	100-300	0.02-0.06			50-100	0.01-0.06
80-200	0.02-0.06			80-200	0.01-0.05	80-200	0.02-0.06	50-100	0.01-0.06	50-100	0.01-0.06
100-250	0.02-0.06	80-150	0.01-0.05	100-200	0.01-0.05	80-200	0.02-0.06			30-80	0.01-0.06
100-300	**0.02-0.06**	**100-200**	**0.01-0.05**	**100-250**	**0.01-0.05**	**100-300**	**0.02-0.06**	**50-120**	**0.01-0.06**	**50-120**	**0.01-0.06**
80-200	0.02-0.06			80-200	0.01-0.05	80-200	0.02-0.06	50-100	0.01-0.06	50-100	0.01-0.06
100-250	0.02-0.06	80-150	0.01-0.05	100-200	0.01-0.05	80-200	0.02-0.06			30-80	0.01-0.06
100-300	**0.02-0.06**	**100-200**	**0.01-0.05**	**100-250**	**0.01-0.05**	**100-300**	**0.02-0.06**	**50-120**	**0.01-0.06**	**50-120**	**0.01-0.06**

H

Ø max 44 mm

Porte-outils
Halter
Holders





Pièces de rechange et accessoires
Ersatzteile und Zubehöre
Spare parts and accessories

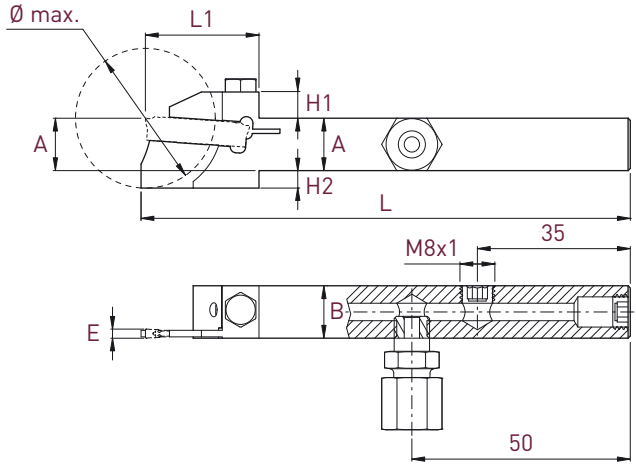
Plaquettes WSP Inserts	A x B	L	Ø max.	L1	H1	H2	Art. N°	Art. N°	Art. N° *	Art. N° *
E 1.5 **Type** ET15	10x12	110	22	20	5	6	**ET15-H1012L-D22**	**ET15-H1012R-D22**	**V-M5X20-6P6**	**C-6PEX-6.0**
	12x12	110	22	20	5	4	**ET15-H1212L-D22**	**ET15-H1212R-D22**		
	12.7x12.7	110	22	20	5	3	**ET15-H12.7L-D22**	**ET15-H12.7R-D22**		
	12x12	110	32	26	6	4	**ET15-H1212L-D32**	**ET15-H1212R-D32**	**V-M5X21-6P7**	**C-6PEX-7.0**
	12.7x12.7	110	32	26	6	3	**ET15-H12.7L-D32**	**ET15-H12.7R-D32**		
	16x16	110	32	26	6	-	**ET15-H1616L-D32**	**ET15-H1616R-D32**		
E 2.0 **Type** ET20	10x12	110	22	20	5	6	**ET20-H1012L-D22**	**ET20-H1012R-D22**	**V-M5X20-6P6**	**C-6PEX-6.0**
	12x12	110	22	20	5	4	**ET20-H1212L-D22**	**ET20-H1212R-D22**		
	12.7x12.7	110	22	20	5	3	**ET20-H12.7L-D22**	**ET20-H12.7R-D22**		
	12x12	110	32	26	6	4	**ET20-H1212L-D32**	**ET20-H1212R-D32**	**V-M5X21-6P7**	**C-6PEX-7.0**
	12.7x12.7	110	32	26	6	3	**ET20-H12.7L-D32**	**ET20-H12.7R-D32**		
	16x16	110	32	26	6	-	**ET20-H1616L-D32**	**ET20-H1616R-D32**		
	16x16	130	44	35	8	4	**ET20-H1616L-D44**	**ET20-H1616R-D44**	**V-M5X27-6P7**	**C-6PEX-7.0**
	20x20	130	44	35	8	-	**ET20-H2020L-D44**	**ET20-H2020R-D44**		
E 2.5 **Type** ET25	10x12	110	22	20	5	6	**ET25-H1012L-D22**	**ET25-H1012R-D22**	**V-M5X20-6P6**	**C-6PEX-6.0**
	12x12	110	22	20	5	4	**ET25-H1212L-D22**	**ET25-H1212R-D22**		
	12.7x12.7	110	22	20	5	3	**ET25-H12.7L-D22**	**ET25-H12.7R-D22**		
	12x12	110	32	26	6	4	**ET25-H1212L-D32**	**ET25-H1212R-D32**	**V-M5X21-6P7**	**C-6PEX-7.0**
	12.7x12.7	110	32	26	6	3	**ET25-H12.7L-D32**	**ET25-H12.7R-D32**		
	16x16	110	32	26	6	-	**ET25-H1616L-D32**	**ET25-H1616R-D32**		
	16x16	130	44	35	8	4	**ET25-H1616L-D44**	**ET25-H1616R-D44**	**V-M5X27-6P7**	**C-6PEX-7.0**
	20x20	130	44	35	8	-	**ET25-H2020L-D44**	**ET25-H2020R-D44**		
E 3.0 **Type** ET30	12.7x12.7	110	32	26	6	3	**ET30-H12.7L-D32**	**ET30-H12.7R-D32**	**V-M5X21-6P7**	**C-6PEX-7.0**
	16x16	110	32	26	6	-	**ET30-H1616L-D32**	**ET30-H1616R-D32**		
	16x16	130	44	35	8	4	**ET30-H1616L-D44**	**ET30-H1616R-D44**		
	20x20	130	44	35	8	-	**ET30-H2020L-D44**	**ET30-H2020R-D44**	**V-M5X27-6P7**	**C-6PEX-7.0**
	25x25	140	44	35	8	-	**ET30-H2525L-D44**	**ET30-H2525R-D44**		

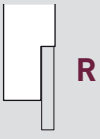
* livré avec chaque porte-outil
mit jedem Halter geliefert
delivered with each holder

Porte-outils avec arrosage intégré
Halter mit integrierter Kühlmittelzufuhr
Holders with integrated coolant supply

Ø max 44 mm

H JET





Pièces de rechange et accessoires
Ersatzteile und Zubehöre
Spare parts and accessories

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*

Plaquettes WSP Inserts	A x B	L	Ø max.	L1	H1	H2	Art. N°	Art. N°	Art. N°	Art. N°
E 2.0 **Type** ET20	10x12	110	22	20	5	6	**ET20-H1012L-JET22**	**ET20-H1012R-JET22**		
	12x12	110	22	20	5	4	**ET20-H1212L-JET22**	**ET20-H1212R-JET22**	**V-M5X20-6P6-J**	**C-6PEX-6.0**
	12.7x12.7	110	22	20	5	3	**ET20-H12.7L-JET22**	**ET20-H12.7R-JET22**		
	12x12	110	32	26	6	4	**ET20-H1212L-JET32**	**ET20-H1212R-JET32**		
	12.7x12.7	110	32	26	6	3	**ET20-H12.7L-JET32**	**ET20-H12.7R-JET32**	**V-M5X21-6P7-J**	**C-6PEX-7.0**
	16x16	110	32	26	6	-	**ET20-H1616L-JET32**	**ET20-H1616R-JET32**		
	16x16	130	44	35	8	4	**ET20-H1616L-JET44**	**ET20-H1616R-JET44**	**V-M5X27-6P7-J**	**C-6PEX-7.0**
	20x20	130	44	35	8	-	**ET20-H2020L-JET44**	**ET20-H2020R-JET44**		
E 2.5 **Type** ET25	10x12	110	22	20	5	6	**ET25-H1012L-JET22**	**ET25-H1012R-JET22**		
	12x12	110	22	20	5	4	**ET25-H1212L-JET22**	**ET25-H1212R-JET22**	**V-M5X20-6P6-J**	**C-6PEX-6.0**
	12.7x12.7	110	22	20	5	3	**ET25-H12.7L-JET22**	**ET25-H12.7R-JET22**		
	12x12	110	32	26	6	4	**ET25-H1212L-JET32**	**ET25-H1212R-JET32**		
	12.7x12.7	110	32	26	6	3	**ET25-H12.7L-JET32**	**ET25-H12.7R-JET32**	**V-M5X21-6P7-J**	**C-6PEX-7.0**
	16x16	110	32	26	6	-	**ET25-H1616L-JET32**	**ET25-H1616R-JET32**		
	16x16	130	44	35	8	4	**ET25-H1616L-JET44**	**ET25-H1616R-JET44**	**V-M5X27-6P7-J**	**C-6PEX-7.0**
	20x20	130	44	35	8	-	**ET25-H2020L-JET44**	**ET25-H2020R-JET44**		
E 3.0 **Type** ET30	12.7x12.7	110	32	26	6	3	**ET30-H12.7L-JET32**	**ET30-H12.7R-JET32**	**V-M5X21-6P7-J**	**C-6PEX-7.0**
	16x16	110	32	26	6	-	**ET30-H1616L-JET32**	**ET30-H1616R-JET32**		
	16x16	130	44	35	8	4	**ET30-H1616L-JET44**	**ET30-H1616R-JET44**		
	20x20	130	44	35	8	-	**ET30-H2020L-JET44**	**ET30-H2020R-JET44**	**V-M5X27-6P7-J**	**C-6PEX-7.0**
	25x25	140	44	35	8	-	**ET30-H2525L-JET44**	**ET30-H2525R-JET44**		

Pièces de rechange
Ersatzteile
Spare parts

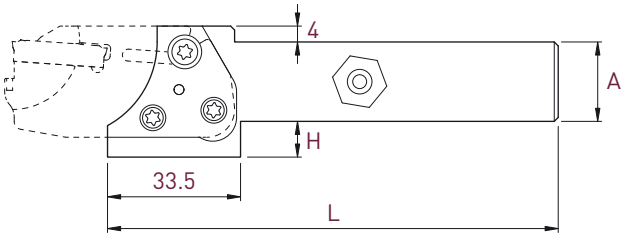
Art. N°
J-M8X1-D6

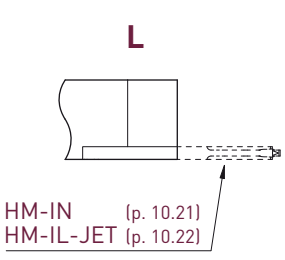
Art. N°
JB-M8X1

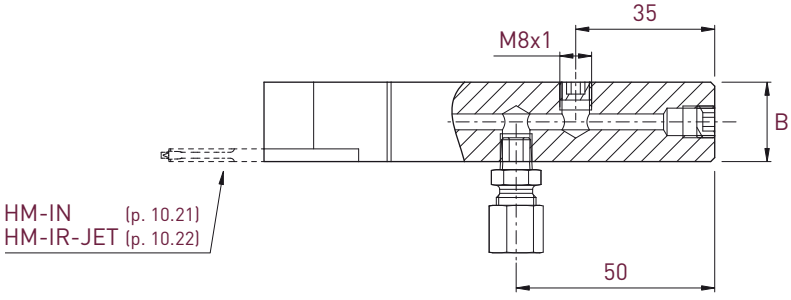
* livré avec chaque porte-outil
mit jedem Halter geliefert
delivered with each holder

H-HM-JET

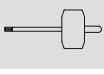
Porte-lames avec arrosage intégré
Halter für Stechklinge mit Kühlmittelzufuhr
Holder for parting-off blades with integrated coolant supply





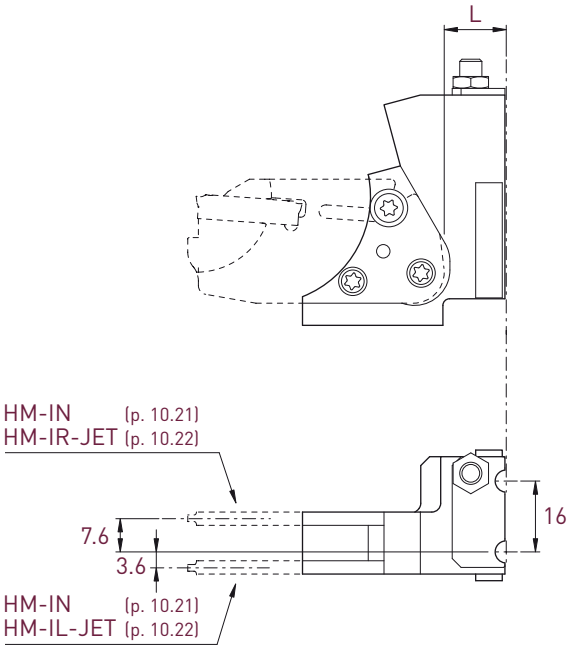


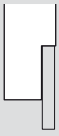
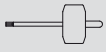
			L	R
A x B	L	H	Art. N°	Art. N°
16x16	113.5	13	**H1616L-HM-JET**	**H1616R-HM-JET**
20x20	113.5	9	**H2020L-HM-JET**	**H2020R-HM-JET**
25x25	138.5	4	**H2525L-HM-JET**	**H2525R-HM-JET**

Pièces de rechange et accessoires Ersatzteile und Zubehöre Spare parts and accessories				Options
				
Art. N°	**Art. N°**	**Art. N°**	**Art. N°**	**Art. N°**
V-M5X10-T20IP	**V-M6X10-T20IP**	**J-M8X1-D6**	**JB-M8X1**	**C-T20IP**

Interface Göltenbodt

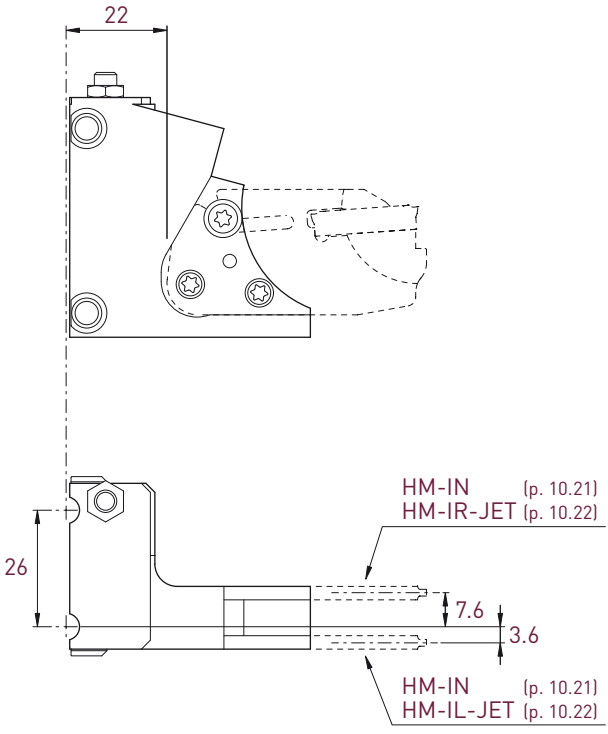
GWS02R-HM-JET

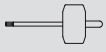


			R	Pièces de rechange et accessoires Ersatzteile und Zubehöre Spare parts and accessories		Options
						
Interface	Machine compatibility	L	**Art. N°**	**Art. N°**	**Art. N°**	**Art. N°**
GWS02	AS14	14	**GWS02R-02001-HM-JET**	**V-M5X10-T20IP**	**V-M6X10-T20IP**	**C-T20IP**
	SAS16					
	SBS20					
	Others	22	**GWS02R-02002-HM-JET**			

GWS41L-HM-JET

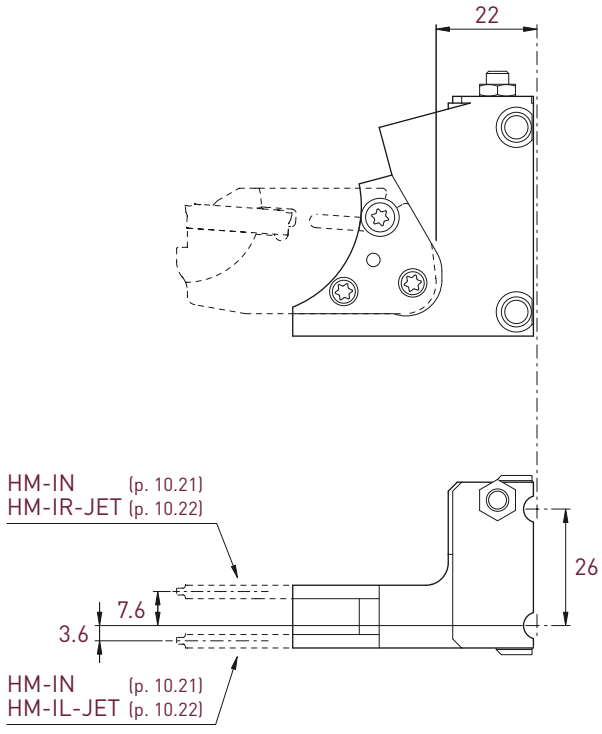
Interface Göltenbodt

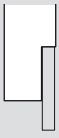
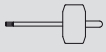


		L	Pièces de rechange et accessoires Ersatzteile und Zubehöre Spare parts and accessories		Options
					
Interface	Machine compatibility	**Art. N°**	**Art. N°**	**Art. N°**	**Art. N°**
GWS41	MultiSwiss 6X16	**GWS41L-41001-HM-JET**	**V-M5X10-T20IP**	**V-M6X10-T20IP**	**C-T20IP**
	MultiDeco 20X6				
	MultiDeco 20X8				
	MultiDeco 26X6				
	MultiDeco 32X6				
	MultiAlpha 20X8				
	MultiSigma 24X8				

Interface Göltenbodt

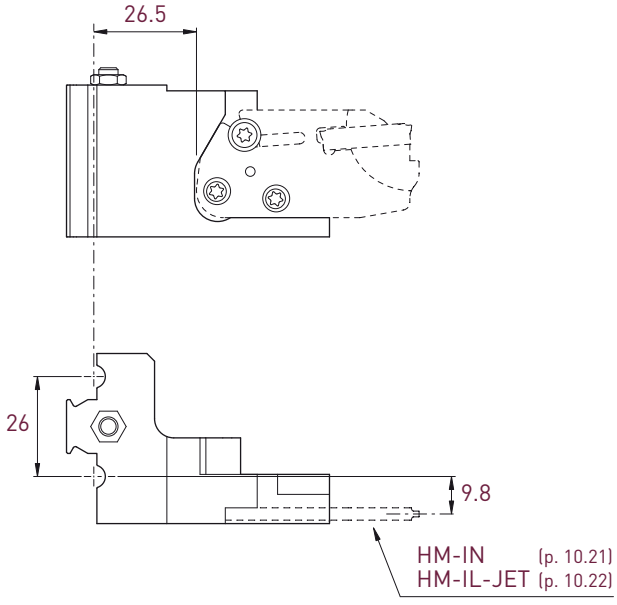
GWS41R-HM-JET



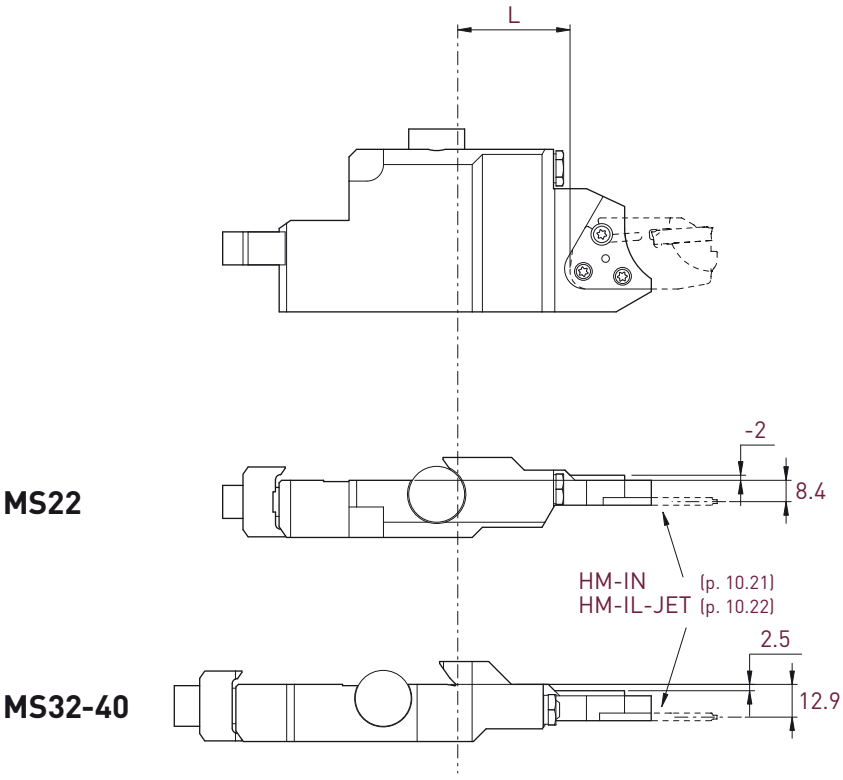
		R	Pièces de rechange et accessoires Ersatzteile und Zubehöre Spare parts and accessories		Options
					
Interface	Machine compatibility	**Art. N°**	**Art. N°**	**Art. N°**	**Art. N°**
GWS41	MultiSwiss 6X16	**GWS41R-41002-HM-JET**	**V-M5X10-T20IP**	**V-M6X10-T20IP**	**C-T20IP**
	MultiDeco 20X6				
	MultiDeco 20X8				
	MultiDeco 26X6				
	MultiDeco 32X6				
	MultiAlpha 20X8				
	MultiSigma 24X8				

GWS202L-HM-JET

Interface Göltenbodt



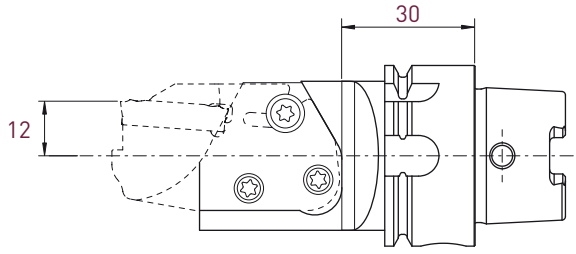
		L	Pièces de rechange et accessoires Ersatzteile und Zubehöre Spare parts and accessories		Options
Interface	Machine compatibility	**Art. N°**	**Art. N°**	**Art. N°**	**Art. N°**
GWS202	MultiSwiss 6X32 MultiSwiss 8X26	**GWS202L-202001-HM-JET**	**V-M5X10-T20IP**	**V-M6X10-T20IP**	**C-T20IP**

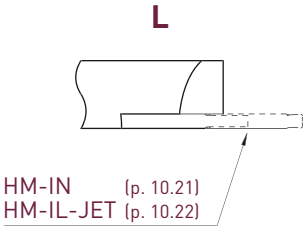


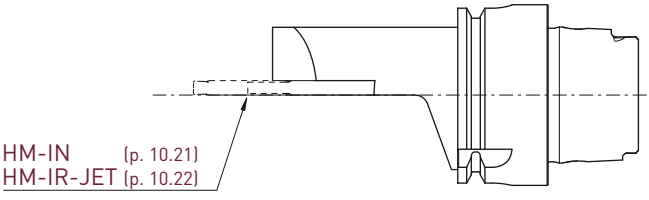
Machine compatibility	L	Art. N°	Pièces de rechange et accessoires Ersatzteile und Zubehöre Spare parts and accessories		Options
			Art. N°	Art. N°	Art. N°
MS22	44.2	**MS22-W5190231-HM-JET**	**V-M5X10-T20IP**	**V-M6X10-T20IP**	**C-T20IP**
MS32-40	45.5	**MS32-40-W5190233-HM-JET**			

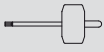
HSK-JET

Porte-outils HSK pour porte-lames avec arrosage intégré
HSK Halter Stechklingen mit integrierter Kühlmittelzufuhr
HSK holder for parting-off blades with integrated coolant supply



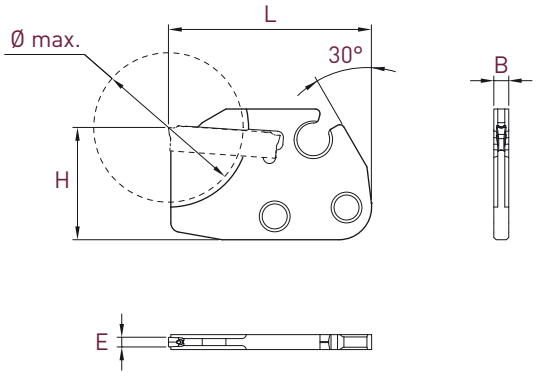




L	R	Pièces de rechange et accessoires Ersatzteile und Zubehöre Spare parts and accessories		Options
				
Art. N°	**Art. N°**	**Art. N°**	**Art. N°**	**Art. N°**
HSK-T40-L-HM-JET	**HSK-T40-R-HM-JET**	**V-M5X10-T20IP**	**V-M6X10-T20IP**	**C-T20IP**

Lames pour système modulaire
Stechklinge für modulares System
Parting-off blades for modular system

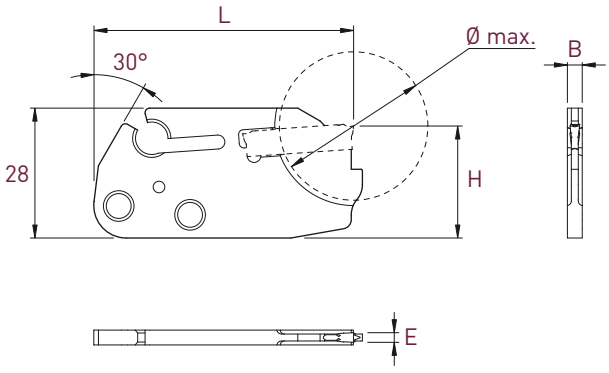
HM



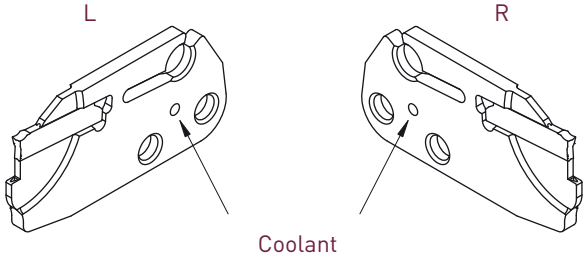
					N
Plaquettes WSP Inserts	Ø max.	B	L	H	**Art. N°**
E 1.5 **Type** ET15	20	3.2	43.5	24	**ET15-HM-IN-43-D20**
	32	3.2	43.5	24	**ET15-HM-IN-43-D32**
E 2.0 **Type** ET20	20	3.2	43.5	24	**ET20-HM-IN-43-D20**
	26	3.2	43.5	24	**ET20-HM-IN-43-D26**
	26	3.2	54	24	**ET20-HM-IN-54-D26**
	32	3.2	43.5	24	**ET20-HM-IN-43-D32**
E 3.0 **Type** ET30	32	3.2	43.5	24	**ET30-HM-IN-43-D32**

HM-JET

Lames avec arrosage intégré
Stechklinge mit integrierter Kühlmittelzufuhr
Parting-off blades with integrated coolant supply

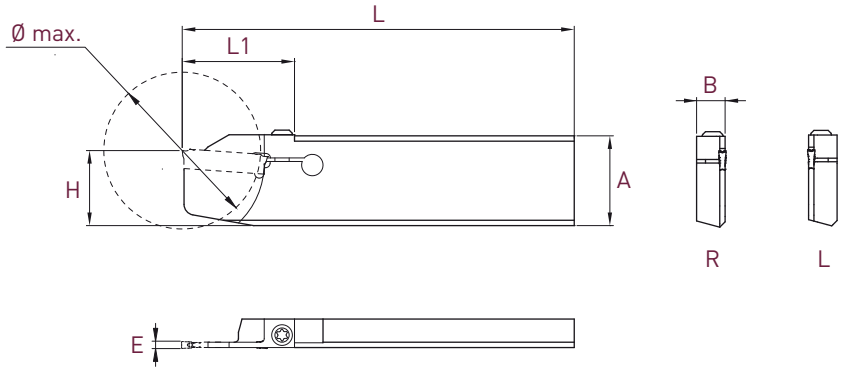


Plaquettes WSP Inserts	Ø max.	B	L	H	L	R
					Art. N°	**Art. N°**
E 2.0 **Type** ET20	20	3.2	48.5	24	**ET20-HM-IL-48.5-JET20**	**ET20-HM-IR-48.5-JET20**
	24		48.5		**ET20-HM-IL-48.5-JET24**	**ET20-HM-IR-48.5-JET24**
	32		45.5		**ET20-HM-IL-45.5-JET32**	**ET20-HM-IR-45.5-JET32**
	32		56		**ET20-HM-IL-56-JET32**	**ET20-HM-IR-56-JET32**
	42		48.5		**ET20-HM-IL-48.5-JET42**	**ET20-HM-IR-48.5-JET42**
E 3.0 **Type** ET30	32	3.2	45.5	24	**ET30-HM-IL-45.5-JET32**	**ET30-HM-IR-45.5-JET32**
	44		48.5		**ET30-HM-IL-48.5-JET42**	**ET30-HM-IR-48.5-JET42**



Lames de tronçonnage
Stechklinge
Parting-off blades

HK



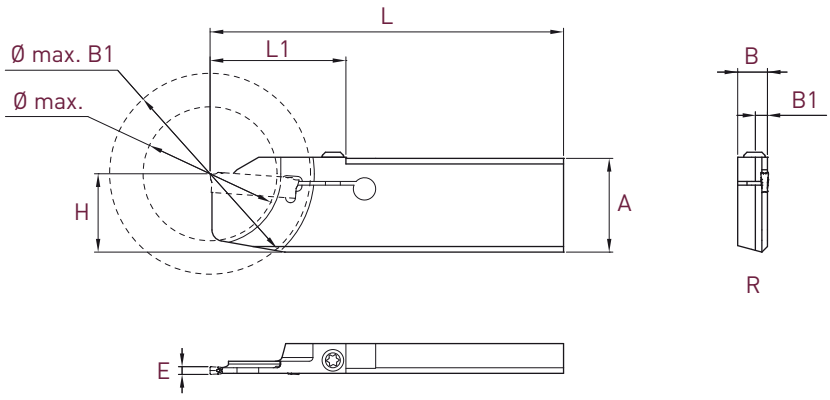
Plaquettes WSP Inserts	A x B	L	Ø max.	L1	H	L Art. N°	R Art. N°
E 1.5	26x8	110	20	19.5	21	**ET15-HK-2608L-110-D20**	**ET15-HK-2608R-110-D20**
Type ET15	26x8	110	32	25.5	21	**ET15-HK-2608L-110-D32**	**ET15-HK-2608R-110-D32**
E 2.0	26x8	110	32	25.5	21	**ET20-HK-2608L-110-D32**	**ET20-HK-2608R-110-D32**
Type ET20	26x8	110	44	31.5	21	**ET20-HK-2608L-110-D44**	**ET20-HK-2608R-110-D44**

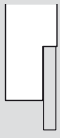
Pièces de rechange et accessoires Ersatzteile und Zubehöre Spare parts and accessories	Options
*	
Art. N°	**Art. N°**
V-M4X14.5-T15-EVOCUT	**C-T15**

* livré avec chaque lame
mit jedem Steckling geliefert
delivered with each blade

HK-RS

Lames de tronçonnage avec dégagement pour accès contre-broche
Stechklinge mit Aussparung für Gegenspindel Zugriff
Parting-off blades with recess for subspindle access





R

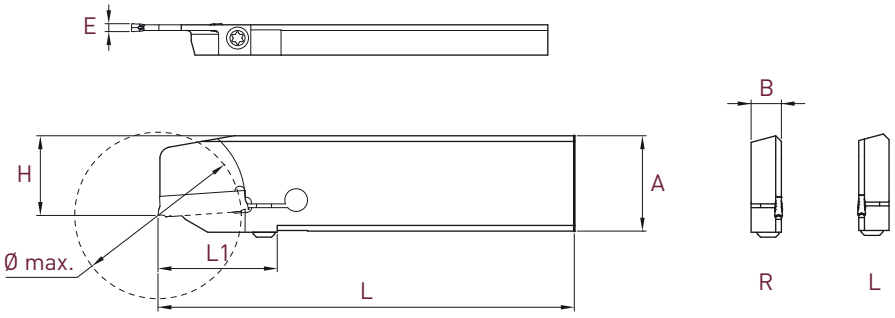
Plaquettes WSP Inserts	A x B	L	Ø max.	Ø max. B1	B1	L1	H	Art. N°
E 1.5 **Type** ET15	26x8	95	36	54	3.25	36.5	21	**ET15-HK-2608RS-95-D36**
E 2.0 **Type** ET20	26x8	95	36	54	3.25	36.5	21	**ET20-HK-2608RS-95-D36**

Pièces de rechange et accessoires Ersatzteile und Zubehöre Spare parts and accessories	Options
*	
Art. N°	**Art. N°**
V-M4X14.5-T15-EVOCUT	**C-T15**

* livré avec chaque lame
mit jedem Steckling geliefert
delivered with each blade

Lames de tronçonnage inversées
Überkopf Stechklinge
Upside down parting-off blades

HUK



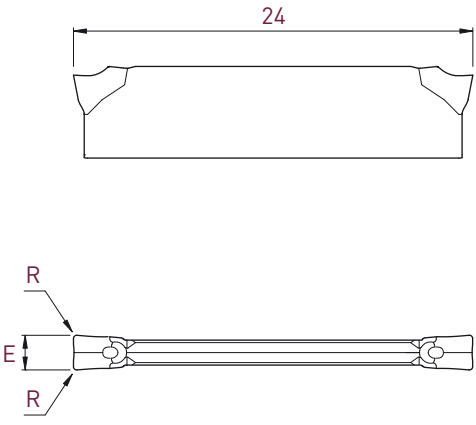
Plaquettes WSP Inserts	A x B	L	Ø max.	L1	H	L Art. N°	R Art. N°
E 1.5	26x8	110	20	19.5	21	**ET15-HUK-2608L-110-D20**	**ET15-HUK-2608R-110-D20**
Type ET15	26x8	110	32	25.5	21	**ET15-HUK-2608L-110-D32**	**ET15-HUK-2608R-110-D32**
E 2.0	26x8	110	32	25.5	21	**ET20-HUK-2608L-110-D32**	**ET20-HUK-2608R-110-D32**
Type ET20	26x8	110	44	31.5	21	**ET20-HUK-2608L-110-D44**	**ET20-HUK-2608R-110-D44**

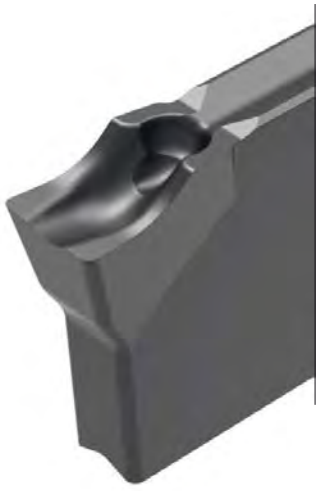
Pièces de rechange et accessoires Ersatzteile und Zubehöre Spare parts and accessories	Options
*	
Art. N°	**Art. N°**
V-M4X14.5-T15-EVOCUT	**C-T15**

* livré avec chaque lame
mit jedem Steckling geliefert
delivered with each blade

UN

Plaquettes de tronçonnage
Abstechwendeplatten
Cut off inserts

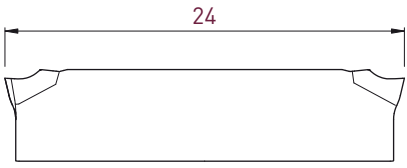


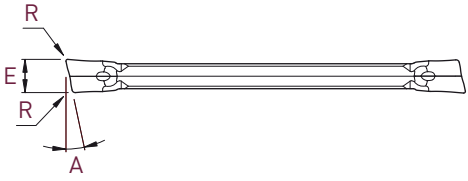


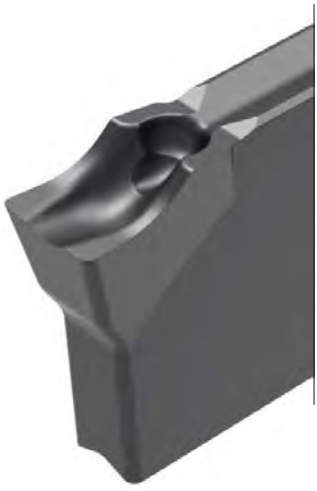
Type	E ±0.05	R	Art. N°	UN TiAlN	UN Tmax	UN Zmax	UN ZTi6
ET15	1.35	0	ET15-UN-000F	●			
	1.5	0.2	ET15-UN-002	●	●	●	
ET20	1.85	0	ET20-UN-000F	●			
	2.0	0.2	ET20-UN-002	●	●	●	●
ET25	2.35	0	ET25-UN-000F	●			
	2.5	0.3	ET25-UN-003	●	●	●	●
ET30	2.85	0	ET30-UN-000F	●			
	3.0	0.3	ET30-UN-003	●	●	●	●

Plaquettes de tronçonnage
Abstechwendeplatten
Cut off inserts

UL-UR



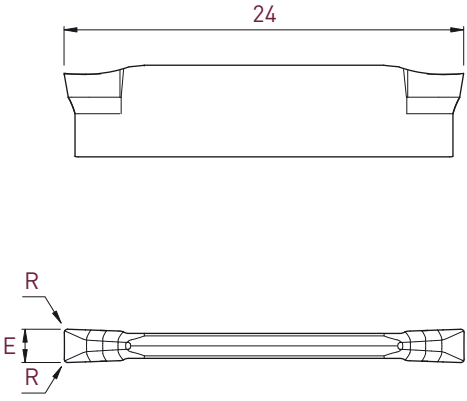




				UL				UR			
Type	E ±0.05	A	R	Art. N°	TiAlN	Tmax	Zmax	Art. N°	TiAlN	Tmax	Zmax
ET15	1.5	6°	0.2	-				ET15-UR-602	●	●	●
	1.35	8°	0	-				ET15-UR-800F	●		
	1.5	12°	0.1	-				ET15-UR-1201	●	●	●
	1.35	15°	0	ET15-UL-1500F	●			ET15-UR-1500F	●		
ET20	2.0	6°	0.2	-				ET20-UR-602	●	●	●
	1.85	8°	0	-				ET20-UR-800F	●		
	2.0	12°	0.1	-				ET20-UR-1201	●	●	●
	1.85	15°	0	ET20-UL-1500F	●			ET20-UR-1500F	●		
ET25	2.5	6°	0.2	-				ET25-UR-602	●	●	●
	2.35	8°	0	-				ET25-UR-800F	●		
	2.5	12°	0.1	-				ET25-UR-1201	●	●	●
	2.35	15°	0	ET25-UL-1500F	●			ET25-UR-1500F	●		
ET30	3.0	6°	0.3	-				ET30-UR-603	●	●	●
	2.85	8°	0	-				ET30-UR-800F	●		
	3.0	12°	0.2	-				ET30-UR-1202	●	●	●
	2.85	15°	0	ET30-UL-1500F	●			ET30-UR-1500F	●		

JN

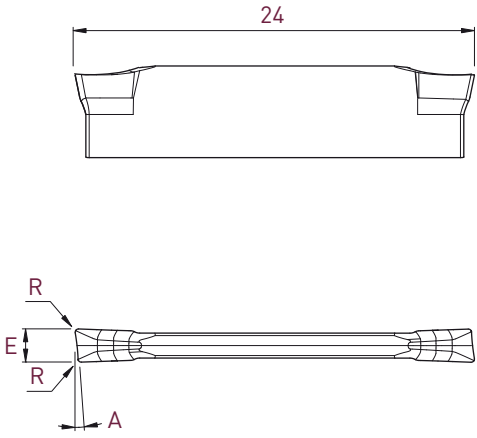
Plaquettes de tronçonnage
Abstechwendeplatten
Cut off inserts



Type	E ±0.05	R	Art. N°	JN			
				P M N S	P M	P M	P M
				TiAlN	Tmax	Zmax	ZTi6
ET15	1.5	0.2	ET15-JN-002	●	●	●	
ET20	2.0	0.2	ET20-JN-002	●	●	●	●
ET25	2.5	0.3	ET25-JN-003	●	●	●	●
ET30	3.0	0.3	ET30-JN-003	●	●	●	●

Plaquettes de tronçonnage
Abstechwendeplatten
Cut off inserts

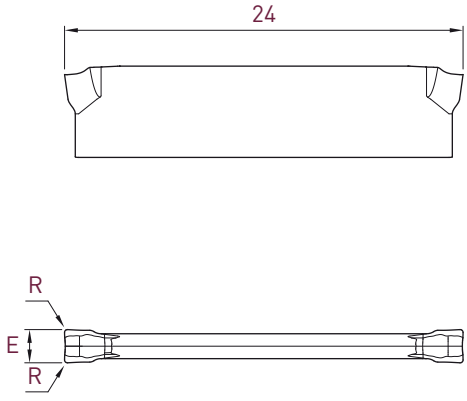
JR



Type	E ±0.05	A	R	JR Art. N°	P M N S TiAlN	P M Tmax	P M Zmax
ET15	1.5	6°	0.2	ET15-JR-602	●	●	●
ET20	2.0	6°	0.2	ET20-JR-602	●	●	●
ET25	2.5	6°	0.2	ET25-JR-602	●	●	●
ET30	3.0	6°	0.3	ET30-JR-603	●	●	●

JSN

Plaquettes de tronçonnage
Abstechwendeplatten
Cut off inserts

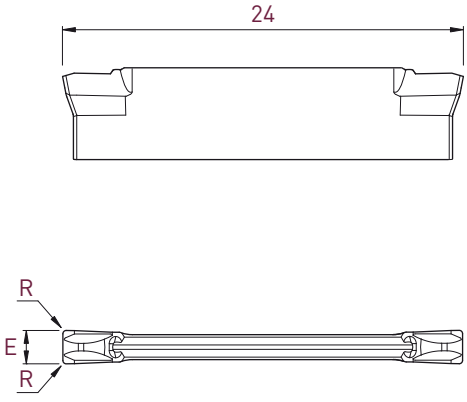


Type	E ±0.05	R	Art. N°	Tmax
				P M
ET20	2.0	0.2	ET20-JSN-002	●

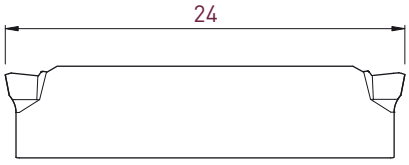
Plaquettes de tronçonnage
Abstechwendeplatten
Cut off inserts

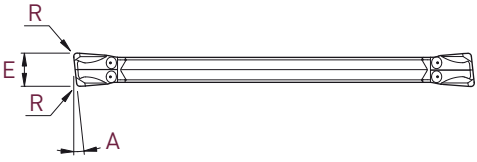
Negative geometry

TN



Type	E ±0.05	R	TN Art. N°	P M N	P M	P M	P M
					TiAlN	Tmax	Zmax	ZTi6
ET20	2.0	0.2	ET20-TN-002		●	●	●	●
ET25	2.5	0.3	ET25-TN-003		●	●	●	●
ET30	3.0	0.3	ET30-TN-003		●	●	●	●



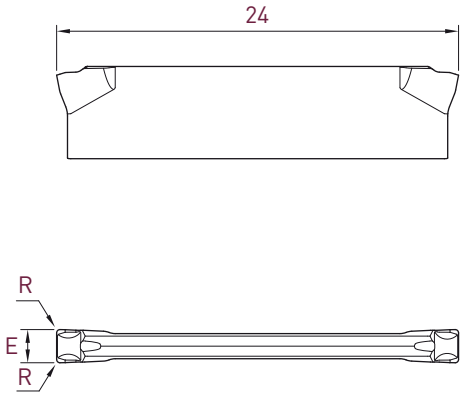


Type	E ±0.05	A	R	Art. N°	TR TiAlN	TR Tmax	TR Zmax	TR ZTi6
					P M N	P M	P M	P M
ET20	2.0	6°	0.2	ET20-TR-602	●	●	●	
ET25	2.5	6°	0.2	ET25-TR-602	●	●	●	
ET30	3.0	6°	0.3	ET30-TR-603	●	●	●	●

Plaquettes de tronçonnage
Abstechwendeplatten
Cut off inserts

Negative geometry

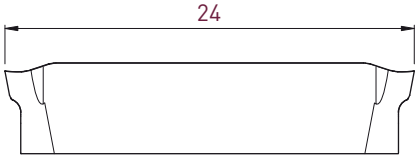
TSN

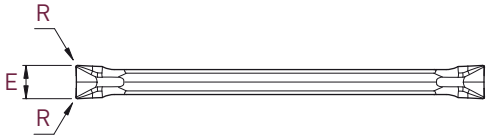


			TSN		
Type	E ±0.05	R	Art. N°	Tmax	Zmax
				P M	P M
ET20	2.0	0.2	ET20-TSN-002	●	●

AN

Plaquettes de tronçonnage
Abstechwendeplatten
Cut off inserts

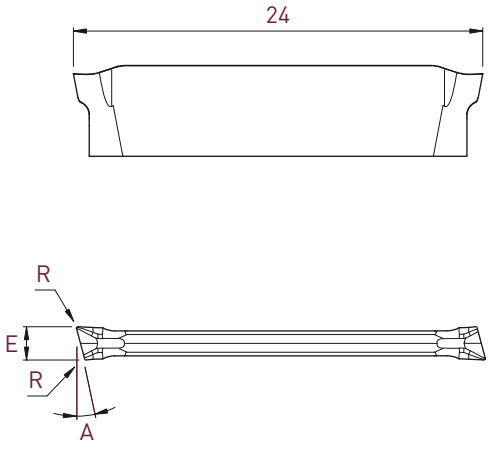




Type	E ±0.05	R	Art. N°	TiAlN	AC	N
			AN			
				M N S	N S	N S
ET20	2.0	0.2	ET20-AN-002F	●	●	●
ET30	3.0	0.3	ET30-AN-003F	●	●	●

Plaquettes de tronçonnage
Abstechwendeplatten
Cut off inserts

AR



				AR			
Type	E ±0.05	A	R	Art. N°	TiAlN	AC	N
ET20	2.0	15°	0.1	ET20-AR-1501F	●	●	●
ET30	3.0	15°	0.2	ET30-AR-1502F	●	●	●

CUT-Line

APPLITEC
CUTTING TOOLS

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	CUT 22	Ø max 42 mm	> 11.10
	CUT 31	Ø max 65 mm	> 11.12
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	HX		> 11.15
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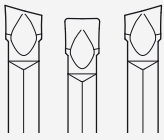
Codification
Bezeichnungssystem
Designation system

CUT	22	-	U	R	-	8	02	Ou / Oder / Or	-	TIALN
								F		

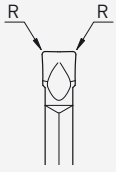
Nuance
Sorte
Grade

Angle de pointe
Spitzenwinkel
Point angle

L N R

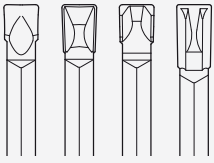


Rayon
Radius
Radius

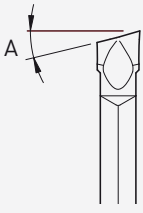


Géométrie d'usinage
Bearbeitungsgeometrie
Machining geometry

U P T G

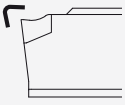


Valeur de l'angle de pointe
Wert des Spitzenwinkels
Value of the point angle



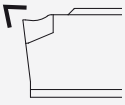
A
0°
8°
15°

Arête de coupe honée
Schneidkantenverrundung
Honed edge



F

Arête de coupe vive
Scharfe Schneidkante
Sharp edge



Epaisseur de coupe
Schnittbreite
Cutting thickness

CUT 16	1.6 mm	Ø max 20 mm
CUT 22	2.2 mm	Ø max 42 mm
CUT 31	3.1 mm	Ø max 65 mm

Applitec CUT-Line	Système performant dédié pour le tronçonnage
Applitec CUT-Line	Leistungsstarkes System für das Abstechen
Applitec CUT-Line	High-performance system for cutting

Infos et avantages
Infos und Vorteile
Infos and advantages

Porte-outils / Halter / Holders

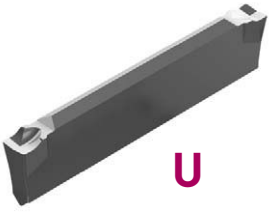
Very rigid clamping system

H
Système de serrage à bride, version courte
Spann-Klemmsystem, kurze Ausführung
Independent top clamp system, short version

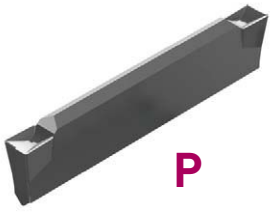
HX
Système de serrage à bride, version longue
Spann-Klemmsystem, lange Ausführung
Independent top clamp system, long version

HZ
Porte-outils de grande capacité
Klemmhalter mit grosser Kapazität
High capacity tool holders

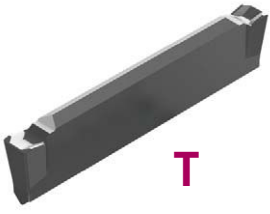
Plaquettes / WSP / Inserts



U



P



T

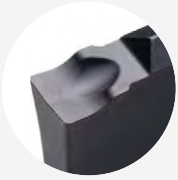
G

Toutes les géométries des plaquettes sont conçues pour être entièrement compatibles avec les porte-outils.

Alle Geometrien der Wendeschneidplatten sind so gestaltet, dass sie vollständig mit den Haltern kompatibel sind.

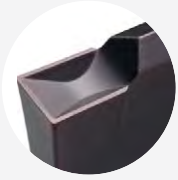
All the geometries of the inserts are designed to be fully compatible with the holders.

UN
UR
UL



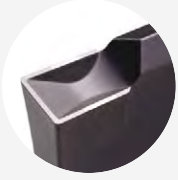
- géométrie positive universelle, bonne maîtrise du copeau
- Universalgeometrie positive gute Beherrschung der Späne
- all-round insert with efficient chip control

PN
PR



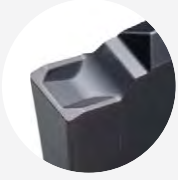
- géométrie légèrement positive pour les aciers, aciers au carbone, aciers alliés
- leicht positive Geometrie für Stahl, Kohlenstoffstahl, legiertem Stahl
- slightly positive geometry for steel, carbon steel, alloyed steel

PNW
PRW



- géométrie neutre pour les laitons
- neutrale Geometrie für Messinge
- neutral geometry for brasses

TN



- géométrie négative pour de fortes avances dans des conditions de rigidité favorables
- negative Geometrie für hohe Vorschübe in guten Stabilitätsfällen
- negative geometry for high feed rate in case of good stability

GN

- géométrie universelle pour fonçage-tournage, peut également être utilisée en tronçonnage
- Universalgeometrie zum einstechen-langdrehen, kann auch zum abstechen verwendet werden
- all-round insert for grooving and turning, can also be used for parting off

Nuances
Sorten
Grades

TiAlN

Revêtement PVD
PVD Beschichtung
PVD coating

TF F **M** E

P ★★★★★
M ★★★★★
N ★★★★☆
S ★★★★☆

- pour l'usinage des aciers, aciers inoxydables et alliages de titane
- 1er choix pour les avances faibles à modérées

- für die Bearbeitung von Stahl, rostfreien Stahl und Titanlegierungen
- erste Wahl für niedrige bis mittlere Vorschübe

- for machining of steel, stainless steel and titanium alloys
- first choice for low to average cutting speed

Tmax

Revêtement PVD
PVD Beschichtung
PVD coating

TF F M **E**

P ★★★★★
M ★★★★★
N ★★☆☆☆
S ★★☆☆☆

- nuance pour usinage moyen à lourd des aciers, aciers alliés et inoxydables
- bonne résistance aux températures d'usinage élevées
- 1er choix pour le tronçonnage des aciers au carbone et des aciers fortement alliés

- Sorte für mittlere bis hohe Belastung in Stahl und legierter Stahlbearbeitung
- gute Bearbeitungswarmfestigkeit
- erste Wahl für die Bearbeitung von legiertem Kohlenstahl und hoch legiertem Stahl

- grade for medium to heavy machining of steel, stainless steel and alloyed steel
- high machining heat resistance
- first choice for the machining of carbon steel and high alloyed steel

Zmax

Revêtement PVD
PVD Beschichtung
PVD coating

TF F M **E**

P ★★★★★
M ★★★★★
N ★★☆☆☆
S ★★☆☆☆

- pour l'usinage des aciers, aciers inoxydables et alliages de titane en conditions défavorables
- bonne résistance aux chocs à des vitesses de coupe moyennes à faibles
- 1er choix pour le tronçonnage en coupe interrompue

- für die Bearbeitung von Stahl, rostfreiem Stahl und Titanlegierungen in schwierige Bearbeitungsfälle
- gute Bruchfestigkeit mit durchschnittliche bis niedrige Schnittgeschwindigkeit
- erste Wahl für die Bearbeitung in unterbrochenen Schnitte

- for machining of steel, stainless steel and titanium alloys in unfavourable machining conditions
- good impact resistance with average to low cutting speed
- first choice for machining in interrupted cut

HTA

Revêtement PVD
PVD Beschichtung
PVD coating

TF F **M** E

P ★★★★★
M ★★★★★
N ★★★★☆
S ★★★★☆

- très bonne résistance à l'usure
- pour le tronçonnage des aciers, aciers inoxydables et alliages de titane
- déconseillé en coupe interrompue

- sehr gute Verschleissfestigkeit
- für die Bearbeitung von Stahl, rostfreiem Stahl und Titanlegierung
- für unterbrochene Schnitte ungeeignet

- very good wear resistance
- for steel, stainless steel and titanium alloys machining
- not suitable for interrupted cut

HAC

Revêtement PVD
PVD Beschichtung
PVD coating

TF F **M** E

P ☆☆☆☆☆
M ☆☆☆☆☆
N ★★★★★
S ★★★★★

- nuance pour métaux non ferreux
- très faible coefficient de frottement
- 1er choix pour l'usinage des aluminiums, des cuivres et titanes faiblement alliés

- Sorte für Nichteisenmetalle
- sehr geringer Reibwert
- erste Wahl für die Bearbeitung von Aluminium, Kupfer und niedriglegiertem Titan

- grade for non-ferrous materials
- very low friction ratio
- first choice for Aluminium, copper and low alloyed titanium

N

Non revêtu
Unbeschichtet
Uncoated

P ★☆☆☆☆
M ★☆☆☆☆
N ★★★☆☆
S ★★★☆☆

- idéal pour l'usinage du laiton, uniquement disponible en géométries PNW / PRW

- Ideal für die Bearbeitung von Messing, nur in den Geometrien PNW / PRW erhältlich

- ideal for machining brass, only available in PNW / PRW geometries

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

★★★★★ ★★★★ ★★★

CUT 16

			P Acier Stahl Steel						M Inox Rostfreistahl Stainless steel	
			Acier de décolletage Automatenstahl Free-cutting steel		Acier faiblement allié Leicht legierter Stahl Low alloyed steel		Acier fortement allié Legierter Stahl High alloyed steel		Austénitique et martensitique Austenitisch und martensitisch Austenitic and martensitic	
			VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)
Avance standard Standard Vorschub Standard feed rate	CUT16-UN-001	TiAlN	90-140	0.03-0.07	60-120	0.03-0.07	50-100	0.04-0.08	50-120	0.03-0.07
		Tmax	**100-170**	**0.03-0.07**	**70-150**	**0.03-0.07**	**60-120**	**0.04-0.08**	**60-150**	**0.03-0.07**
		Zmax	80-130*	0.04-0.10	50-110*	0.04-0.10	50-90*	0.04-0.08	**50-120***	**0.04-0.10**
		HTA	70-120	0.03-0.05	60-100	0.03-0.05	50-90	0.03-0.05	50-100	0.03-0.06
		HAC								
	CUT16-PR-801	TiAlN	90-140	0.03-0.07	60-120	0.03-0.07	50-100	0.03-0.07	50-120	0.03-0.07
		Tmax	**100-170**	**0.03-0.07**	**70-150**	**0.03-0.07**	**60-120**	**0.03-0.07**	60-150	0.03-0.07
	CUT16-PRW-801	N								
Avance modérée ** Niedriger Vorschub ** Low feed rate	CUT16-UN-000F	TiAlN	80-130	0.02-0.05	50-110	0.02-0.05	50-90	0.02-0.05	50-80	0.02-0.05
		HTA	60-100	0.01-0.04	50-90	0.01-0.04	50-80	0.02-0.05	50-80	0.02-0.05
		HAC								
	CUT16-UL/R-800F	TiAlN	80-130	0.02-0.05	50-110	0.02-0.05	50-90	0.02-0.05	50-80	0.02-0.05
		HTA	60-100	0.01-0.04	50-90	0.01-0.04	50-80	0.02-0.05	**50-80**	**0.02-0.05**
		HAC								
	CUT16-UL/R-1500F	TiAlN	80-130	0.02-0.05	50-110	0.02-0.05	50-90	0.02-0.05	50-80	0.02-0.05
		HTA	60-100	0.01-0.04	50-90	0.01-0.04	50-80	0.02-0.05	**50-80**	**0.02-0.05**
		HAC								

* premier choix en cas de coupe interrompue
** arête de coupe vive

* erste Wahl für unterbrochener Schnitt
** scharfe Schneidkante

* first choice for interrupted cut
** sharp cutting edge

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

N Alliages d'aluminium et non ferreux Aluminium- und Nichteisenlegierungen Aluminium and non-ferrous alloys								S Titane Titan Titanium			
Aluminium		Alu silicium max. 5% Aluminiumsilicium max. 5% Aluminium silicon max. 5%		Cuivre Kupfer Copper		Laiton & bronze Messing & Bronze Brass & bronze		Gr. 1 - 3		Gr. 4 - 5	
VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)
100-250	0.03-0.10	100-250	0.03-0.10	100-300	0.03-0.10	100-300	0.03-0.10			30-60	0.04-0.08
100-300	0.04-0.10	100-250	0.04-0.10	100-300	0.03-0.08	150-300	0.03-0.08			30-60	0.04-0.08
150-300	**0.04-0.15**	**100-300**	**0.04-0.10**	**100-300**	**0.04-0.10**	**150-300**	**0.02-0.08**	**30-60**	**0.04-0.08**	**30-60**	**0.04-0.08**
						150-300	**0.03-0.10**				
						100-500	**0.02-0.10**				
100-300	0.02-0.05	100-250	0.01-0.04	100-250	0.01-0.04	100-300	0.02-0.05			30-60	0.01-0.04
100-300	0.02-0.05	100-250	0.02-0.05	100-250	0.02-0.05	100-300	0.02-0.05			30-60	0.02-0.06
100-300	**0.02-0.05**	**100-250**	**0.02-0.05**	**100-250**	**0.02-0.05**	**100-300**	**0.02-0.05**	**30-60**	**0.02-0.06**	**30-60**	**0.02-0.06**
100-300	0.02-0.05	100-250	0.01-0.04	100-250	0.01-0.04	100-300	0.02-0.05			30-60	0.01-0.04
100-300	0.02-0.05	100-250	0.02-0.05	100-250	0.02-0.05	100-300	0.02-0.05			30-60	0.02-0.06
100-300	**0.02-0.05**	**100-250**	**0.02-0.05**	**100-250**	**0.02-0.05**	**100-300**	**0.02-0.05**	**30-60**	**0.02-0.06**	**30-60**	**0.02-0.06**
100-300	0.02-0.05	100-250	0.01-0.04	100-250	0.01-0.04	100-300	0.02-0.05			30-60	0.01-0.04
100-300	0.02-0.05	100-250	0.02-0.05	100-250	0.02-0.05	100-300	0.02-0.05			30-60	0.02-0.06
100-300	**0.02-0.05**	**100-250**	**0.02-0.05**	**100-250**	**0.02-0.05**	**100-300**	**0.02-0.05**	**30-60**	**0.02-0.06**	**30-60**	**0.02-0.06**

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

★★★★★ ★★★★ ★★★

CUT 22

			P Acier Stahl Steel						M Inox Rostfreistahl Stainless steel	
			Acier de décolletage Automatenstahl Free-cutting steel		Acier faiblement allié Leicht legierter Stahl Low alloyed steel		Acier fortement allié Legierter Stahl High alloyed steel		Austénitique et martensitique Austenitisch und martensitisch Austenitic and martensitic	
			VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)
Avance standard Standard Vorschub Standard feed rate	CUT22-UN-002 CUT22-UR-802	TiAlN	90-140	0.04-0.08	60-120	0.04-0.08	50-100	0.04-0.08	50-120	0.04-0.08
		Tmax	**100-170**	**0.04-0.08**	**70-150**	**0.04-0.08**	**60-120**	**0.04-0.08**	**60-150**	**0.04-0.08**
		Zmax	80-130*	0.04-0.10	50-110*	0.04-0.10	50-90*	0.04-0.08	**50-120***	**0.04-0.10**
		HTA	70-120	0.04-0.06	60-100	0.04-0.06	50-90	0.04-0.06	50-100	0.04-0.06
		HAC								
	CUT22-PN-002	TiAlN	90-140	0.04-0.10	60-120	0.04-0.08	50-100	0.04-0.08		
		Tmax	**100-170**	**0.04-0.10**	**70-150**	**0.04-0.10**	**60-120**	**0.04-0.10**		
	CUT22-PNW-002	N								
	CUT22-PR-002	TiAlN	90-140	0.04-0.08	60-120	0.04-0.08	50-100	0.04-0.08	50-120	0.04-0.08
		Tmax	**100-170**	**0.04-0.08**	**70-150**	**0.04-0.08**	**60-120**	**0.04-0.08**	60-150	0.04-0.08
	CUT22-PRW-002	N								
	CUT22-TN-002	TiAlN	90-140	0.08-0.18	60-120	0.08-0.18	50-100	0.08-0.15	50-120	0.08-0.20
		Tmax	**100-170**	**0.08-0.18**	**70-150**	**0.08-0.18**	**60-120**	**0.08-0.15**	**60-150**	**0.08-0.20**
		Zmax	80-130*	0.08-0.18	50-110*	0.08-0.18	50-90*	0.08-0.15		
	CUT22-GN-002 ***	TiAlN	90-140	0.03-0.12	60-120	0.03-0.12	50-100	0.03-0.10	50-120	0.03-0.08
		Tmax	**100-170**	**0.03-0.12**	**70-150**	**0.03-0.12**	**60-120**	**0.03-0.10**	**70-120**	**0.03-0.08**
		AC								
Avance modérée ** Niedriger Vorschub ** Low feed rate	CUT22-UN-000F	TiAlN	80-130	0.02-0.05	50-110	0.02-0.05	50-90	0.02-0.05	50-80	0.02-0.05
		HTA	60-100	0.01-0.04	50-90	0.01-0.04	50-80	0.02-0.05	**50-80**	**0.02-0.05**
		HAC								
	CUT22-UL/R-800F	TiAlN	80-130	0.02-0.05	50-110	0.02-0.05	50-90	0.02-0.05	50-80	0.02-0.05
		HTA	60-100	0.01-0.04	50-90	0.01-0.04	50-80	0.02-0.05	**50-80**	**0.02-0.05**
		HAC								
	CUT22-UL/R-802F	TiAlN	80-130	0.02-0.05	50-110	0.02-0.05	50-90	0.02-0.05	50-80	0.02-0.05
		HTA	60-100	0.01-0.04	50-90	0.01-0.04	50-80	0.02-0.05	**50-80**	**0.02-0.05**
		HAC								
	CUT22-UL/R-1500F	TiAlN	80-130	0.02-0.05	50-110	0.02-0.05	50-90	0.02-0.05	50-80	0.02-0.05
		HTA	60-100	0.01-0.04	50-90	0.01-0.04	50-80	0.02-0.05	**50-80**	**0.02-0.05**
		HAC								

* premier choix en cas de coupe interrompue
** arête de coupe vive
*** Pour opérations de fonçage-tournage (évent. tronçonnage)

* erste Wahl für unterbrochener Schnitt
** scharfe Schneidkante
*** Für Stech- und Drehoperationen (event. abstechen)

* first choice for interrupted cut
** sharp cutting edge
*** For grooving and turning operations (event. parting off)

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

N Alliages d'aluminium et non ferreux Aluminium- und Nichteisenlegierungen Aluminium and non-ferrous alloys								S Titane Titan Titanium			
Aluminium		Alu silicium max. 5% Aluminiumsilicium max. 5% Aluminium silicon max. 5%		Cuivre Kupfer Copper		Laiton & bronze Messing & Bronze Brass & bronze		Gr. 1 - 3		Gr. 4 - 5	
VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)
100-250	0.03-0.10	100-250	0.03-0.10	100-300	0.03-0.10	100-300	0.03-0.10			30-60	0.04-0.08
100-300	0.04-0.10	100-250	0.04-0.10	100-300	0.03-0.08	150-300	0.03-0.08			30-60	0.04-0.08
150-300	**0.04-0.15**	**100-300**	**0.04-0.10**	**100-300**	**0.04-0.10**	**150-300**	**0.02-0.08**	**30-60**	**0.04-0.08**	**30-60**	**0.04-0.08**
						150-300	**0.03-0.10**				
						100-500	**0.02-0.10**				
						150-300	**0.03-0.10**				
						100-500	**0.02-0.10**				
						150-300	0.05-0.20				
100-300	0.03-0.12	100-200	0.03-0.10	100-200	0.03-0.10	**100-300**	**0.03-0.12**			30-60	0.04-0.08
						100-300	0.03-0.12				
100-300	**0.03-0.12**	100-200	0.03-0.10	100-200	0.03-0.10	**100-300**	**0.03-0.12**	30-60	0.04-0.08	30-60	0.04-0.08
100-300	0.02-0.05	100-250	0.01-0.04	100-250	0.01-0.04	100-300	0.02-0.05			30-60	0.01-0.04
100-300	0.02-0.05	100-250	0.02-0.05	100-250	0.02-0.05	100-300	0.02-0.05			30-60	0.02-0.06
100-300	**0.02-0.05**	**100-250**	**0.02-0.05**	**100-250**	**0.02-0.05**	**100-300**	**0.02-0.05**	**30-60**	**0.02-0.06**	**30-60**	**0.02-0.06**
100-300	0.02-0.05	100-250	0.01-0.04	100-250	0.01-0.04	100-300	0.02-0.05			30-60	0.01-0.04
100-300	0.02-0.05	100-250	0.02-0.05	100-250	0.02-0.05	100-300	0.02-0.05			30-60	0.02-0.06
100-300	**0.02-0.05**	**100-250**	**0.02-0.05**	**100-250**	**0.02-0.05**	**100-300**	**0.02-0.05**	**30-60**	**0.02-0.06**	**30-60**	**0.02-0.06**
100-300	0.02-0.05	100-250	0.01-0.04	100-250	0.01-0.04	100-300	0.02-0.05			30-60	0.01-0.04
100-300	0.02-0.05	100-250	0.02-0.05	100-250	0.02-0.05	100-300	0.02-0.05			30-60	0.02-0.06
100-300	**0.02-0.05**	**100-250**	**0.02-0.05**	**100-250**	**0.02-0.05**	**100-300**	**0.02-0.05**	**30-60**	**0.02-0.06**	**30-60**	**0.02-0.06**
100-300	0.02-0.05	100-250	0.01-0.04	100-250	0.01-0.04	100-300	0.02-0.05			30-60	0.01-0.04
100-300	0.02-0.05	100-250	0.02-0.05	100-250	0.02-0.05	100-300	0.02-0.05			30-60	0.02-0.06
100-300	**0.02-0.05**	**100-250**	**0.02-0.05**	**100-250**	**0.02-0.05**	**100-300**	**0.02-0.05**	**30-60**	**0.02-0.06**	**30-60**	**0.02-0.06**

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

★★★★★ ★★★★ ★★★

CUT 31

			P Acier Stahl Steel						M Inox Rostfreistahl Stainless steel	
			Acier de décolletage Automatenstahl Free-cutting steel		Acier faiblement allié Leicht legierter Stahl Low alloyed steel		Acier fortement allié Legierter Stahl High alloyed steel		Austénitique et martensitique Austenitisch und martensitisch Austenitic and martensitic	
			VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)
Avance standard Standard Vorschub Standard feed rate	CUT31-UN-002	TiAlN	90-140	0.04-0.08	60-120	0.04-0.08	50-100	0.04-0.08	50-120	0.04-0.10
		Tmax	100-170	0.04-0.08	70-150	0.04-0.08	60-120	0.04-0.08	60-150	0.04-0.10
		Zmax	80-130*	0.04-0.10	50-110*	0.04-0.10	50-90*	0.04-0.08	50-120*	0.04-0.10
		HTA	70-120	0.04-0.06	60-100	0.04-0.06	50-90	0.04-0.06	50-100	0.04-0.06
		HAC								
	CUT31-PN-002	TiAlN	90-140	0.04-0.10	60-120	0.04-0.08	50-100	0.04-0.08		
		Tmax	100-170	0.04-0.10	70-150	0.04-0.10	60-120	0.04-0.10		
	CUT31-PNW-002	N								
	CUT31-PR-802	TiAlN	90-140	0.04-0.08	60-120	0.04-0.08	50-100	0.04-0.08	50-120	0.04-0.08
		Tmax	100-170	0.04-0.08	70-150	0.04-0.08	60-120	0.04-0.08	60-150	0.04-0.08
	CUT31-PRW-802	N								
	CUT31-TN-002	TiAlN	90-140	0.08-0.20	60-120	0.08-0.20	50-100	0.08-0.15	50-120	0.08-0.20
		Tmax	100-170	0.08-0.20	70-150	0.08-0.20	60-120	0.08-0.15	60-150	0.08-0.20
		Zmax	80-130*	0.08-0.20	50-110*	0.08-0.20	50-90*	0.08-0.15		
	CUT31-GN-002 ***	TiAlN	90-140	0.04-0.15	60-120	0.04-0.15	50-100	0.04-0.10	50-120	0.04-0.10
		Tmax	100-170	0.04-0.15	70-150	0.04-0.15	60-120	0.04-0.10	70-120	0.04-0.10
		AC								
Avance modérée ** Niedriger Vorschub ** Low feed rate	CUT31-UN-000F	TiAlN	80-130	0.02-0.05	50-110	0.02-0.05	50-90	0.02-0.05	50-80	0.02-0.05
		HTA	60-100	0.01-0.04	50-90	0.01-0.04	50-80	0.02-0.05	50-80	0.02-0.05
		HAC								
	CUT31-UL/R-800F	TiAlN	80-130	0.02-0.05	50-110	0.02-0.05	50-90	0.02-0.05	50-80	0.02-0.05
		HTA	60-100	0.01-0.04	50-90	0.01-0.04	50-80	0.02-0.05	50-80	0.02-0.05
		HAC								
	CUT31-UL/R-802F	TiAlN	80-130	0.02-0.05	50-110	0.02-0.05	50-90	0.02-0.05	50-80	0.02-0.05
		HTA	60-100	0.01-0.04	50-90	0.01-0.04	50-80	0.02-0.05	50-80	0.02-0.05
		HAC								
	CUT31-UL/R-1500F	TiAlN	80-130	0.02-0.05	50-110	0.02-0.05	50-90	0.02-0.05	50-80	0.02-0.05
		HTA	60-100	0.01-0.04	50-90	0.01-0.04	50-80	0.02-0.05	50-80	0.02-0.05
		HAC								

* premier choix en cas de coupe interrompue
** arête de coupe vive
*** Pour opérations de fonçage-tournage (évent. tronçonnage)

* erste Wahl für unterbrochener Schnitt
** scharfe Schneidkante
*** Für Stech- und Drehoperationen (event. abstechen)

* first choice for interrupted cut
** sharp cutting edge
*** For grooving and turning operations (event. parting off)

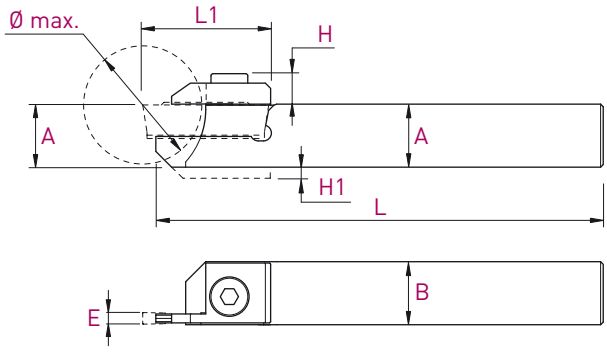
Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

N Alliages d'aluminium et non ferreux Aluminium- und Nichteisenlegierungen Aluminium and non-ferrous alloys								S Titane Titan Titanium			
Aluminium		Alu silicium max. 5% Aluminiumsilicium max. 5% Aluminium silicon max. 5%		Cuivre Kupfer Copper		Laiton & bronze Messing & Bronze Brass & bronze		Gr. 1 - 3		Gr. 4 - 5	
VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)
100-250	0.03-0.10	100-250	0.03-0.10	100-300	0.03-0.10	100-300	0.03-0.10			30-60	0.04-0.08
100-300	0.04-0.10	100-250	0.04-0.10	100-300	0.03-0.08	150-300	0.03-0.08			30-60	0.04-0.08
150-300	**0.04-0.15**	**100-300**	**0.04-0.10**	**100-300**	**0.04-0.10**	**150-300**	**0.02-0.08**	**30-60**	**0.04-0.08**	**30-60**	**0.04-0.08**
						150-300	**0.03-0.10**				
						100-500	**0.02-0.15**				
						150-300	**0.03-0.10**				
						100-500	**0.02-0.15**				
						150-300	0.05-0.20				
100-300	0.04-0.15	100-200	0.04-0.10	100-200	0.04-0.10	**100-300**	**0.04-0.15**			30-60	0.04-0.08
						100-300	0.04-0.15				
100-300	**0.04-0.15**	100-200	0.04-0.10	100-200	0.04-0.10	**100-300**	**0.04-0.15**	30-60	0.04-0.08	30-60	0.04-0.08
100-300	0.02-0.05	100-250	0.01-0.04	100-250	0.01-0.04	100-300	0.02-0.05			30-60	0.01-0.04
100-300	0.02-0.05	100-250	0.02-0.05	100-250	0.02-0.05	100-300	0.02-0.05			30-60	0.02-0.06
100-300	**0.02-0.05**	**100-250**	**0.02-0.05**	**100-250**	**0.02-0.05**	**100-300**	**0.02-0.05**	**30-60**	**0.02-0.06**	**30-60**	**0.02-0.06**
100-300	0.02-0.05	100-250	0.01-0.04	100-250	0.01-0.04	100-300	0.02-0.05			30-60	0.01-0.04
100-300	0.02-0.05	100-250	0.02-0.05	100-250	0.02-0.05	100-300	0.02-0.05			30-60	0.02-0.06
100-300	**0.02-0.05**	**100-250**	**0.02-0.05**	**100-250**	**0.02-0.05**	**100-300**	**0.02-0.05**	**30-60**	**0.02-0.06**	**30-60**	**0.02-0.06**
100-300	0.02-0.05	100-250	0.01-0.04	100-250	0.01-0.04	100-300	0.02-0.05			30-60	0.01-0.04
100-300	0.02-0.05	100-250	0.02-0.05	100-250	0.02-0.05	100-300	0.02-0.05			30-60	0.02-0.06
100-300	**0.02-0.05**	**100-250**	**0.02-0.05**	**100-250**	**0.02-0.05**	**100-300**	**0.02-0.05**	**30-60**	**0.02-0.06**	**30-60**	**0.02-0.06**
100-300	0.02-0.05	100-250	0.01-0.04	100-250	0.01-0.04	100-300	0.02-0.05			30-60	0.01-0.04
100-300	0.02-0.05	100-250	0.02-0.05	100-250	0.02-0.05	100-300	0.02-0.05			30-60	0.02-0.06
100-300	**0.02-0.05**	**100-250**	**0.02-0.05**	**100-250**	**0.02-0.05**	**100-300**	**0.02-0.05**	**30-60**	**0.02-0.06**	**30-60**	**0.02-0.06**

H

Ø max 34 mm

Porte-outils
Halter
Holders



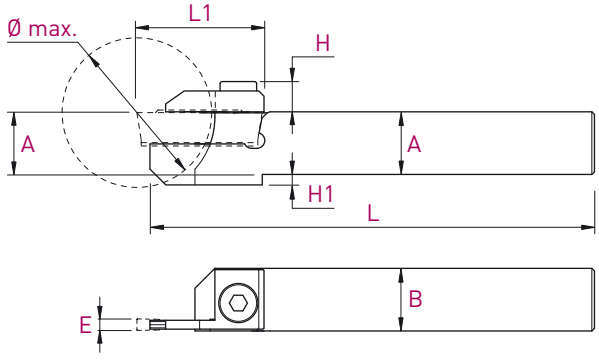
Plaquettes WSP Inserts	A x B	L	Ø max.	L1	H	H1	L Art. N°	R Art. N°
E 1.6 mm **Type** CUT16	8 x 10	115	16	19.5	6.2	2	**CUT16-H0810L**	**CUT16-H0810R**
	10 x 10	115	16	19.5	6.2	-	**CUT16-H1010L**	**CUT16-H1010R**
	12 x 12	130	16	19.5	6.2	-	**CUT16-H1212L**	**CUT16-H1212R**
	12 x 12	90	16	19.5	6.2	-	**CUT16-H1212L-90**	**CUT16-H1212R-90**
	12.7 x 12.7	130	16	19.5	6.2	-	**CUT16-H127127L**	**CUT16-H127127R**
	16 x 16	130	16	19.5	6.2	-	**CUT16-H1616L**	**CUT16-H1616R**
	20 x 20	120	16	19.5	6.2	-	**CUT16-H2020L**	**CUT16-H2020R**
E 2.2 mm **Type** CUT22	10 x 12	115	20	24	6.4	-	**CUT22-H1012L**	**CUT22-H1012R**
	12 x 12	130	20	24	6.4	-	**CUT22-H1212L**	**CUT22-H1212R**
	12 x 12	90	20	24	6.4	-	**CUT22-H1212L-90**	**CUT22-H1212R-90**
	12.7 x 12.7	130	20	24	6.4	-	**CUT22-H127127L**	**CUT22-H127127R**
	16 x 16	130	20	24	6.4	-	**CUT22-H1616L**	**CUT22-H1616R**
	20 x 20	120	20	24	6.4	-	**CUT22-H2020L**	**CUT22-H2020R**
E 3.1 mm **Type** CUT31	16 x 16	130	34	35	7.8	-	**CUT31-H1616L**	**CUT31-H1616R**
	20 x 20	120	34	35	7.8	-	**CUT31-H2020L**	**CUT31-H2020R**
	25 x 25	140	34	35	7.8	-	**CUT31-H2525L**	**CUT31-H2525R**

Pièces de rechange Ersatzteile Spare parts	L Art. N°	R Art. N°	Art. N°	Serrage Anzug Torque
CUT 16	**CUT16L-SET**	**CUT16R-SET**	**V-M4X10-BN7**	3.5 Nm
CUT 22	**CUT22L-SET**	**CUT22R-SET**	**V-M4X10-BN7**	3.5 Nm
CUT 31	**CUT31L-SET**	**CUT31R-SET**	**V-M5X10-BN7**	4.5 Nm

Porte-outils
Halter
Holders

Ø max 42 mm

HX



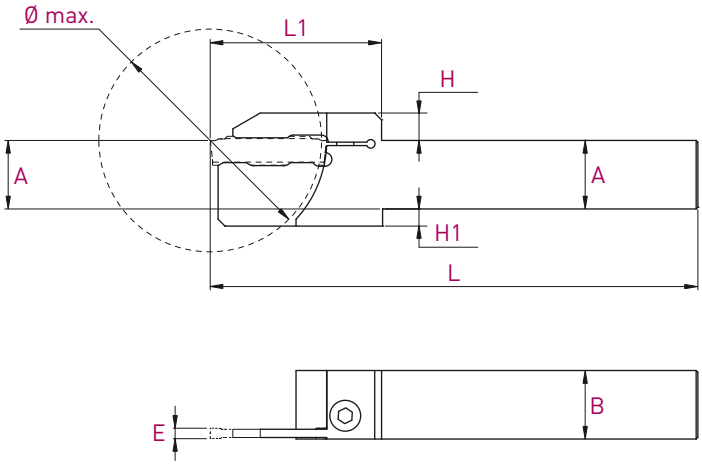
Plaquettes WSP Inserts	A x B	L	Ø max.	L1	H	H1	L Art. N°	R Art. N°
E 1.6 mm **Type** CUT16	10 x 12	115	20	21	6.2	2	**CUT16-H1012LX**	**CUT16-H1012RX**
	12 x 12	130	20	21	6.2	-	**CUT16-H1212LX**	**CUT16-H1212RX**
	12 x 12	90	20	21	6.2	-	**CUT16-H1212LX-90**	**CUT16-H1212RX-90**
	12.7 x 12.7	130	20	21	6.2	-	**CUT16-H127127LX**	**CUT16-H127127RX**
	16 x 16	130	20	21	6.2	-	**CUT16-H1616LX**	**CUT16-H1616RX**
	20 x 20	120	20	21	6.2	-	**CUT16-H2020LX**	**CUT16-H2020RX**
E 2.2 mm **Type** CUT22	10 x 12	115	26	25	6.4	4	**CUT22-H1012LX**	**CUT22-H1012RX**
	12 x 12	130	26	25	6.4	2	**CUT22-H1212LX**	**CUT22-H1212RX**
	12 x 12	90	26	25	6.4	2	**CUT22-H1212LX-90**	**CUT22-H1212RX-90**
	12.7 x 12.7	130	26	25	6.4	-	**CUT22-H127127LX**	**CUT22-H127127RX**
	16 x 16	130	26	25	6.4	-	**CUT22-H1616LX**	**CUT22-H1616RX**
	20 x 20	120	26	25	6.4	-	**CUT22-H2020LX**	**CUT22-H2020RX**
	25 x 25	140	26	25	6.4	-	**CUT22-H2525LX**	**CUT22-H2525RX**
E 3.1 mm **Type** CUT31	16 x 16	120	42	37	7.8	4	**CUT31-H1616LX**	**CUT31-H1616RX**
	20 x 20	120	42	37	7.8	-	**CUT31-H2020LX**	**CUT31-H2020RX**
	25 x 25	140	42	37	7.8	-	**CUT31-H2525LX**	**CUT31-H2525RX**

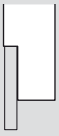
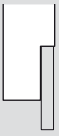
Pièces de rechange Ersatzteile Spare parts	L Art. N°	R Art. N°	Art. N°	Serrage Anzug Torque
CUT 16	**CUT16LX-SET**	**CUT16RX-SET**	**V-M4X10-BN7**	3.5 Nm
CUT 22	**CUT22LX-SET**	**CUT22RX-SET**	**V-M4X10-BN7**	3.5 Nm
CUT 31	**CUT31LX-SET**	**CUT31RX-SET**	**V-M5X10-BN7**	4.5 Nm

HZ

Ø max 65 mm

Porte-outils
Halter
Holders



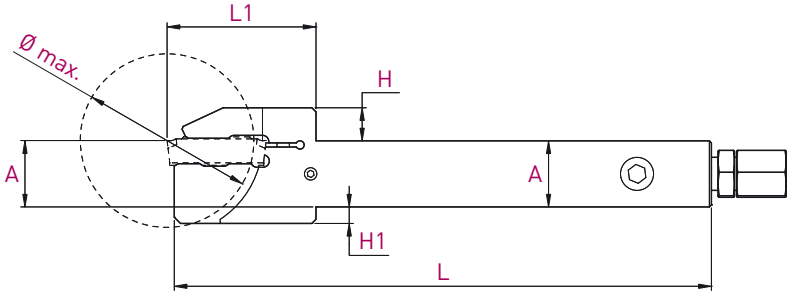
Plaquettes WSP Inserts	A x B	L	Ø max.	L1	H	H1	L  Art. N°	R  Art. N°
E 2.2 mm **Type** CUT22	16 x 16	130	32	30	7	-	**CUT22-H1616LZ-D32**	**CUT22-H1616RZ-D32**
	20 x 20	130	32	30	7	-	**CUT22-H2020LZ-D32**	**CUT22-H2020RZ-D32**
	16 x 16	130	42	35	7	4	**CUT22-H1616LZ-D42**	**CUT22-H1616RZ-D42**
	20 x 20	130	42	35	7	-	**CUT22-H2020LZ-D42**	**CUT22-H2020RZ-D42**
E 3.1 mm **Type** CUT31	20 x 20	140	52	44	8	5	**CUT31-H2020LZ-D52**	**CUT31-H2020RZ-D52**
	25 x 25	140	52	44	8	-	**CUT31-H2525LZ-D52**	**CUT31-H2525RZ-D52**
	20 x 20	140	65	50	8	5	**CUT31-H2020LZ-D65**	**CUT31-H2020RZ-D65**
	25 x 25	140	65	50	8	-	**CUT31-H2525LZ-D65**	**CUT31-H2525RZ-D65**

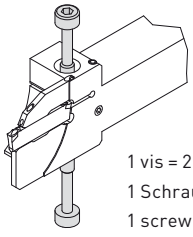
Pièces de rechange Ersatzteile Spare parts	Art. N°	Serrage Anzug Torque
CUT 22	**V-M4X10-BN7**	3.5 Nm
CUT 31	**V-M5X10-BN7**	4.5 Nm

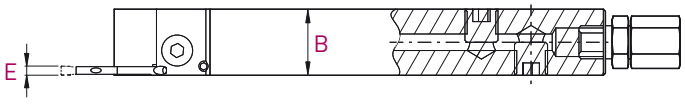
Porte-outils avec arrosage intégré
Halter mit integrierter Kühlmittelzufuhr
Holders with integrated coolant supply

Ø max 65 mm

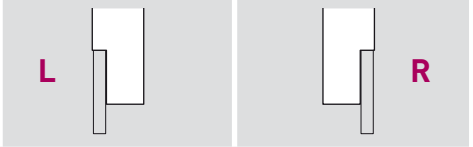
HZ-JET



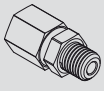




1 vis = 2 possibilités de serrage
1 Schraube = 2 Spannmöglichkeiten
1 screw = 2 clamp possibilities

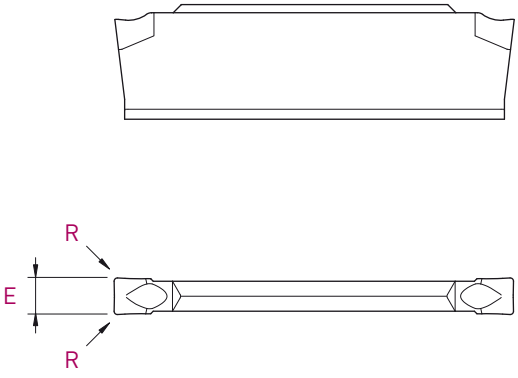


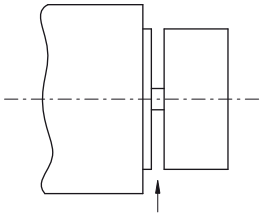
Plaquettes WSP Inserts	A x B	L	Ø max.	L1	H	H1	Art. N°	Art. N°
E 2.2 mm **Type** CUT22	16 x 16	130	42	36	8	4	**CUT22-H1616LZ-JET42**	**CUT22-H1616RZ-JET42**
	20 x 20	130	42	36	8	-	**CUT22-H2020LZ-JET42**	**CUT22-H2020RZ-JET42**
E 3.1 mm **Type** CUT31	16 x 16	140	65	49	9	9	**CUT31-H1616LZ-JET65**	**CUT31-H1616RZ-JET65**
	20 x 20	140	65	51	9	5	**CUT31-H2020LZ-JET65**	**CUT31-H2020RZ-JET65**
	25 x 25	140	65	51	9	-	**CUT31-H2525LZ-JET65**	**CUT31-H2525RZ-JET65**

Pièces de rechange Ersatzteile Spare parts		Serrage Anzug Torque		
	Art. N°		**Art. N°**	**Art. N°**
CUT 22	**V-M4X22-CUT**	3.5 Nm	**J-M8X1-D6**	**JB-M8X1**
CUT 31	**V-M5X25-CUT**	4.5 Nm	**J-M8X1-D6**	**JB-M8X1**

UN

Plaquettes de tronçonnage
Abstechwendeplatten
Cut off inserts



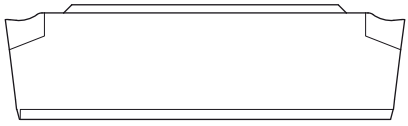


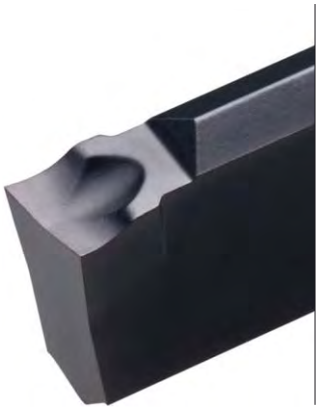
UN

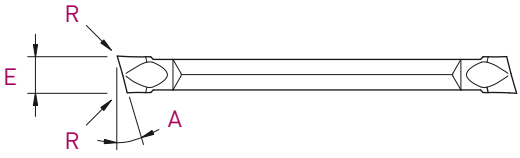
Type	E ±0.1	R	Art. N°	TiAlN	Tmax	Zmax	HTA	HAC
CUT16	1.6	0.02	CUT16-UN-000F	●			●	●
	1.6	0.10	CUT16-UN-001	●	●	●	●	●
CUT22	2.2	0.02	CUT22-UN-000F	●			●	●
	2.2	0.20	CUT22-UN-002	●	●	●	●	●
CUT31	3.1	0.02	CUT31-UN-000F	●			●	●
	3.1	0.20	CUT31-UN-002	●	●	●	●	●

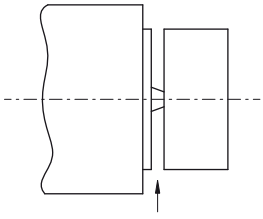
Plaquettes de tronçonnage
Abstechwendeplatten
Cut off inserts

UL-UR





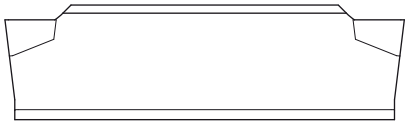


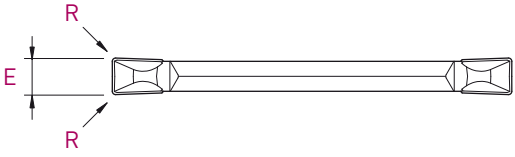


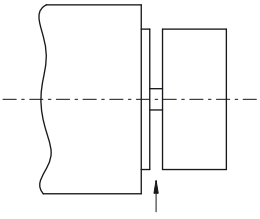
	UL						UR					
Type	E ±0.1	A	R	Art. N°	TiAlN	HTA	HAC	Art. N°	TiAlN	Tmax	Zmax	HTA	HAC
CUT16	1.6	8°	0.02	CUT16-UL-800F	●	●	●	CUT16-UR-800F	●			●	●
	1.6	15°	0.02	CUT16-UL-1500F	●	●	●	CUT16-UR-1500F	●			●	●
CUT22	2.2	8°	0.02	CUT22-UL-800F	●	●	●	CUT22-UR-800F	●			●	●
	2.2	8°	0.20	–				CUT22-UR-802		●	●		
	2.2	8°	0.20	CUT22-UL-802F	●	●	●	CUT22-UR-802F	●			●	●
	2.2	15°	0.02	CUT22-UL-1500F	●	●	●	CUT22-UR-1500F	●			●	●
CUT31	3.1	8°	0.02	CUT31-UL-800F	●	●	●	CUT31-UR-800F	●			●	●
	3.1	8°	0.20	CUT31-UL-802F	●	●	●	CUT31-UR-802F	●			●	●
	3.1	15°	0.02	CUT31-UL-1500F	●	●	●	CUT31-UR-1500F	●			●	●

PN

Plaquettes de tronçonnage
Abstechwendeplatten
Cut off inserts





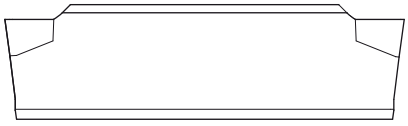


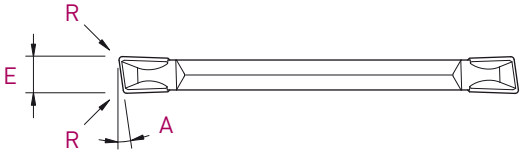
PN

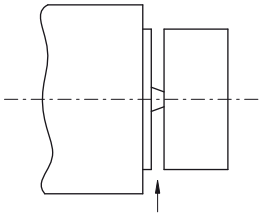
Type	E ±0.1	R	Art. N°	TiAlN	Tmax
CUT22	2.2	0.20	CUT22-PN-002	●	●
CUT31	3.1	0.20	CUT31-PN-002	●	●

Plaquettes de tronçonnage
Abstechwendeplatten
Cut off inserts

PR





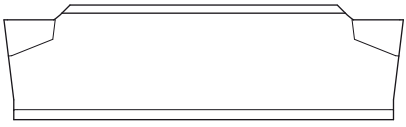


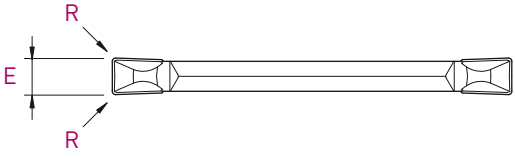
PR

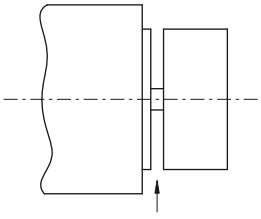
Type	E ±0.1	A	R	Art. N°	TiAlN	Tmax
					P M N S	P M
CUT16	1.6	8°	0.10	CUT16-PR-801	●	●
CUT22	2.2	8°	0.20	CUT22-PR-802	●	●
CUT31	3.1	8°	0.20	CUT31-PR-802	●	●

PNW

Plaquettes de tronçonnage
Abstechwendeplatten
Cut off inserts





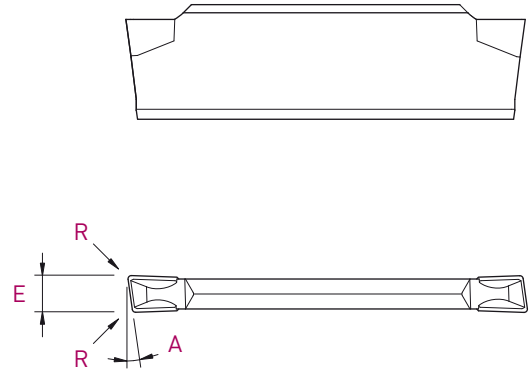


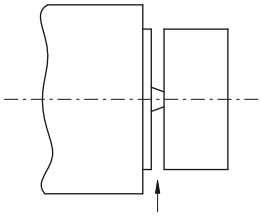
PNW

Type	E ±0.1	R	Art. N°	N S
CUT22	2.2	0.20	CUT22-PNW-002	●
CUT31	3.1	0.20	CUT31-PNW-002	●

Plaquettes de tronçonnage
Abstechwendeplatten
Cut off inserts

PRW





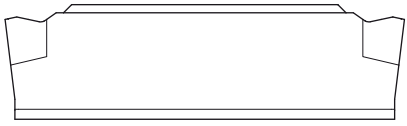
PRW

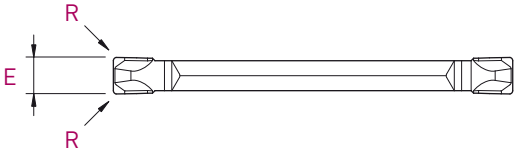
Type	E ±0.1	A	R	Art. N°	N S
CUT16	1.6	8°	0.10	CUT16-PRW-801	●
CUT22	2.2	8°	0.20	CUT22-PRW-802	●
CUT31	3.1	8°	0.20	CUT31-PRW-802	●

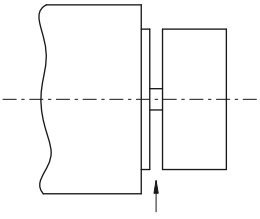
TN

Negative geometry

Plaquettes de tronçonnage
Abstechwendeplatten
Cut off inserts





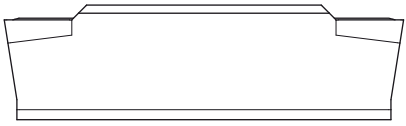


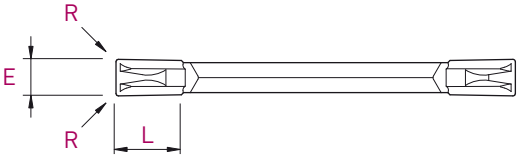
TN

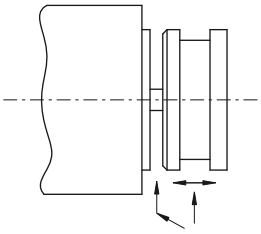
Type	E ±0.1	R	Art. N°	P M N S TiAlN	P M Tmax	P M Zmax
CUT22	2.2	0.20	CUT22-TN-002	●	●	●
CUT31	3.1	0.20	CUT31-TN-002	●	●	●

Plaquettes de fonçage, tournage et tronçonnage
WSP zum einstechen, drehen und abstechen
Solid carbide inserts for grooving, turning and cut off

GN



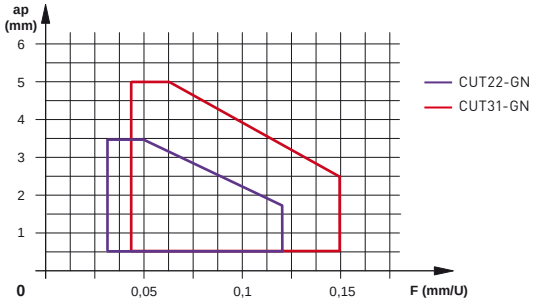


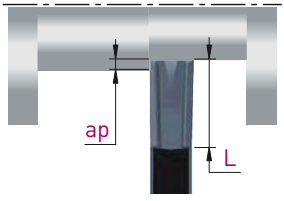


GN

Type	E ±0.1	L	R	Art. N°	TiAlN	Tmax	AC
CUT22	2.2	3.5	0.15	CUT22-GN-002	●	●	●
CUT31	3.1	5.0	0.15	CUT31-GN-002	●	●	●

Conseils d'utilisation pour plaquettes type GN
Anwendungsempfehlungen für GN-Wendeplatten
Application recommendations for GN inserts





ap max = L dans matière à bonne usinabilité
ap max = L in Werkstoffe mit gute Zerspanbarkeit
ap max = L in material with good machinability

IN-Line

APPLITEC
CUTTING TOOLS

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Codification des porte-outils
Kodifizierung für Halter
Coding guide for holders

BH-D / BHS
BHS-D / BHY-D

H **HS** **HY**

B	H	4	–	D	20	–	100

- 100: Longueur / Länge / Length
- 20: Ø/⏍ queue / Schaft Ø/⏍ / Shank Ø/⏍
- D: Queue cylindrique / Zylindrischer Schaft / Cylindrical shank
- 4: Ø alésage / Bohrung Ø / Bore Ø
- H: Porte-outils / Halter / Holders
- B: Ligne produit d'alésage / Innendrehen Produktlinie / Boring product line

BHK

Codification des porte-outils
Kodifizierung für Halter
Coding guide for holders

HK

B	HK	4	N	–	20	–	32R

- **32R** — Barres d'alésage compatibles (longueur L3)
  Kompatible Bohrstangen (Länge L3)
  Compatible boring bars (length L3)
- **20** — ⏍ queue
  Schaft ⏍
  Shank ⏍
- **N** — Géométrie du porte-outil
  Haltergeometrie
  Tool holder geometry
- **4** — Ø alésage
  Bohrung Ø
  Bore Ø
- **HK** — Porte-outils
  Halter
  Holders
- **B** — Ligne produit d'alésage
  Innendrehen Produktlinie
  Boring product line

Codification des barres d'alésage
Kodifizierung für Bohrstangen
Coding guide for holders

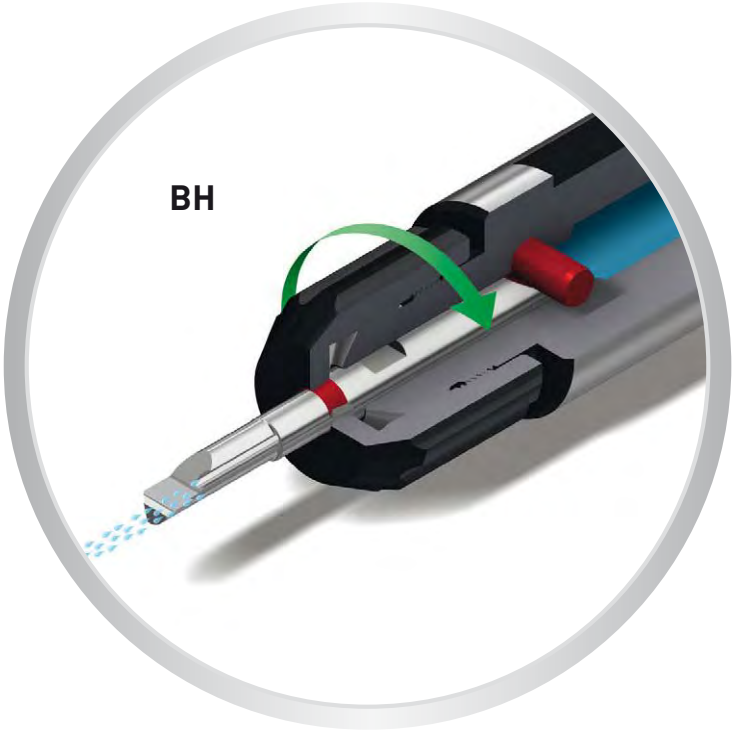
B Arrosage intégré
Intergrieter Kühlmittelzufuhr
Integrated coolant supply

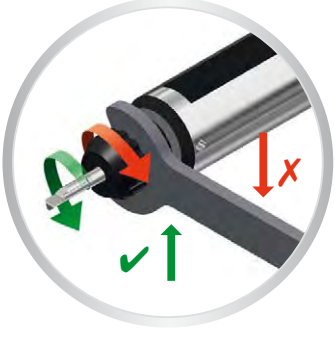
F Sans arrosage
Ohne Kühlung
Without coolant

B	**B** / **F** (Ou / Oder / Or)	**4**	**R**	–	**25**	–	**75**	–	**BAX**	–	**R05**	–	**ZN**

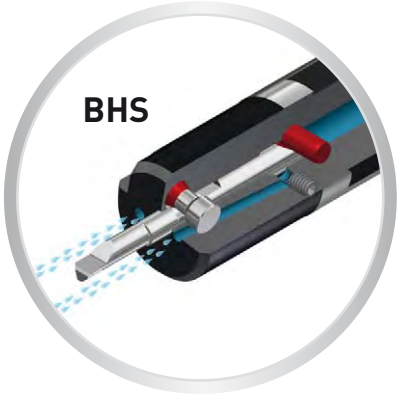
- **B** — Ligne produit d'alésage / Innendrehen Produktlinie / Boring product line
- **4** — Ø queue / Schaft Ø / Shank Ø
- **R** — Exécution R/L / Ausführung R/L / Execution R/L
- **25** — Ø minimum / Minimal Ø / Minimum Ø
- **75** — Longueur utile / Nutzlänge / Length
- **BAX** — Géométries de coupe / Schneidgeometrien / Cutting geometries
- **R05** — Indication complémentaire / Zusätzliche Angabe / Additional indication
  R = rayon / Radius / radius
- **ZN** — Nuance / Sorte / Grade

Arrosage par la barre d'alésage
Kühlung durch die Bohrstange
Cooling through the boring bar

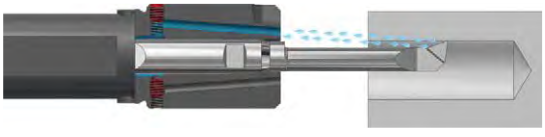


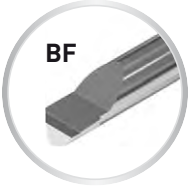


Système de serrage à vis transversale
Querverschraubungsspannsystem
Clamping system with transverse screw

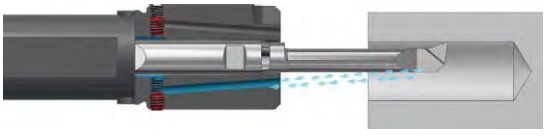


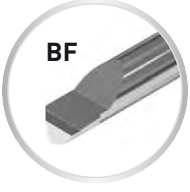
Arrosage sur l'arête de coupe
Kühlung auf der Schneidkante
Cooling on the cutting edge



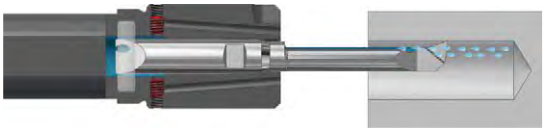


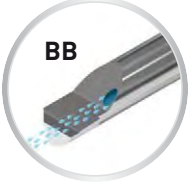
Arrosage favorisant l'évacuation des copeaux
Spanabfuhr fördernde Kühlung
Cooling for better chip outflow





Arrosage par le centre de l'outil
Zentrale Kühlmittelzufuhr
Cooling through the center of the tool



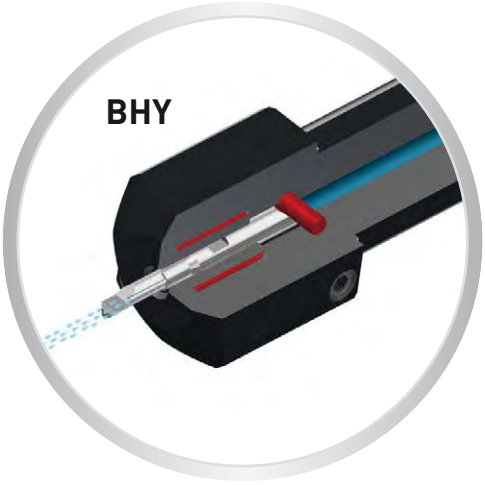


Infos et avantages
Infos und Vorteile
Infos and advantages

Porte-outils à serrage hydraulique
Hydro-Dehnspann-System Halter
Holders with hydraulic clamping system

Excellente absorption des vibrations
Ausgezeichnete Schwingungsdämpfung
Excellent vibration absorbtion

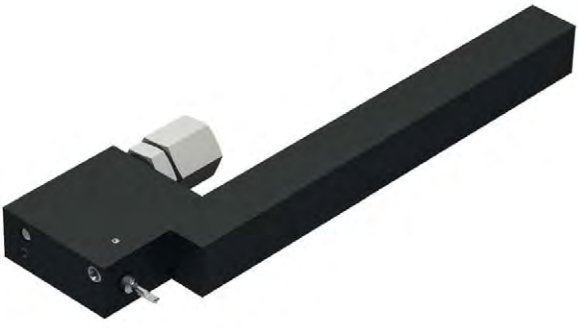
Arrosage par la barre d'alésage
Kühlung durch die Bohrstange
Cooling through the boring bar



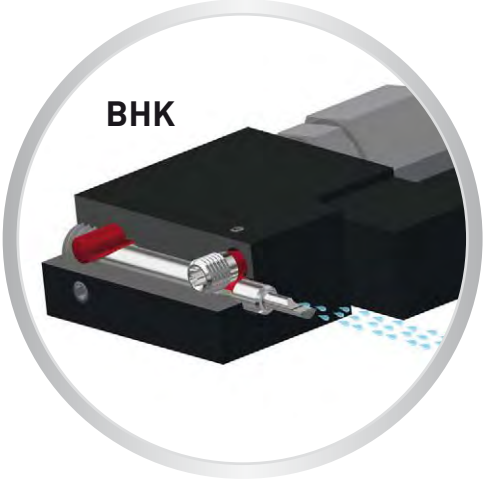
Infos et avantages
Infos und Vorteile
Infos and advantages

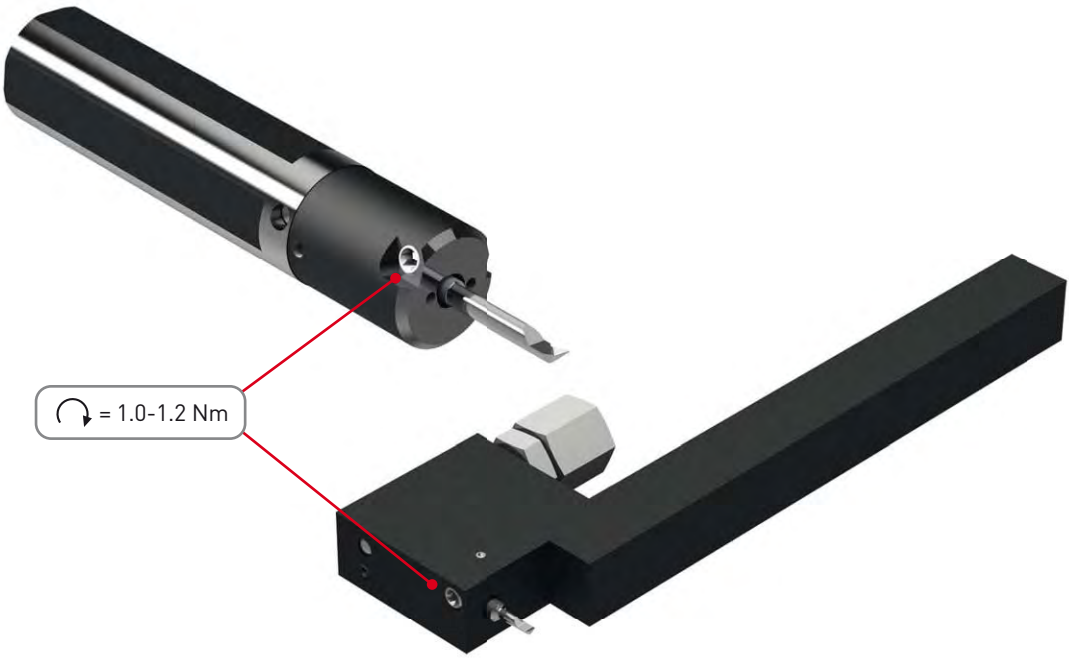
Porte-outils coudés
Gekröpfte Halter
Cranked holders

Système de serrage à vis transversale
Querverschraubungsspannsystem
Clamping system with transverse screw



Arrosage par la barre d'alésage
Kühlung durch die Bohrstange
Cooling through the boring bar





Nous recommandons le serrage des porte-outils type BHS et BHK avec ce type de tournevis dynamométrique.

Wir empfehlen für das Anziehen der Halter Typ BHS und BHK diese Art von Drehmomentschraubendreher.

For holders type BHS and BHK clamping, we recommend this kind of torque screwdriver.

Art. N°
SET-NM1.2-TX8

µK30

ZTAF

K30

ZN + revêtement PVD
ZN + PVD Beschichtung
ZN + PVD coating

TF **F** M E

P ★★★★★
M ★★★★★
N ★★★★☆
S ★★★★☆

- nuance universelle pour l'usage des aciers, aciers inoxydables, aciers alliés, alliages de titane
- bonne résistance à la température

- Vielzweck-Hartmetallsorte für die Bearbeitung von Stahl, rostfreien Stählen, Stahllegierung, Titanlegierung
- gute Warmfestigkeit

- universal grade for steel, stainless steel, alloyed steel, titanium alloys
- good heat resistance

µK30

ZTAXF

K30

ZN + revêtement PVD
ZN + PVD Beschichtung
ZN + PVD coating

TF **F** M E

P ★★★★☆
M ★★★★★
N ★☆☆☆☆
S ★★★★★

- nuance très résistante à l'usure et à la température, recommandée pour l'usinage des matières suivantes : inox 304, 316L, 317L, 904, Phynox
- aciers alliés contenant : chrome nickel, vanadium, molybdène, ...

- sehr verschleissfeste und temperaturbeständige Sorte, für folgende Materialien empfohlen : Inox 304, 316L, 317L, 904, Phynox
- legierter Stahl enthaltend : Chrom-Nickel, Vanadium, Molybdän, ...

- very wear and high temperature resistant grade, recommended for following material : Inox 304, 316L, 317L, 904, Phynox
- alloy steel containing : Chrome-nickel, Vanadium, Molybdenum, ...

µK30

ZN

K30

Non revêtu
Unbeschichtet
Uncoated

P ★☆☆☆☆
M ★☆☆☆☆
N ★★★★☆
S ★★★★☆

- nuance de base micro-grain tenace
- 1er choix pour l'usinage des métaux non ferreux

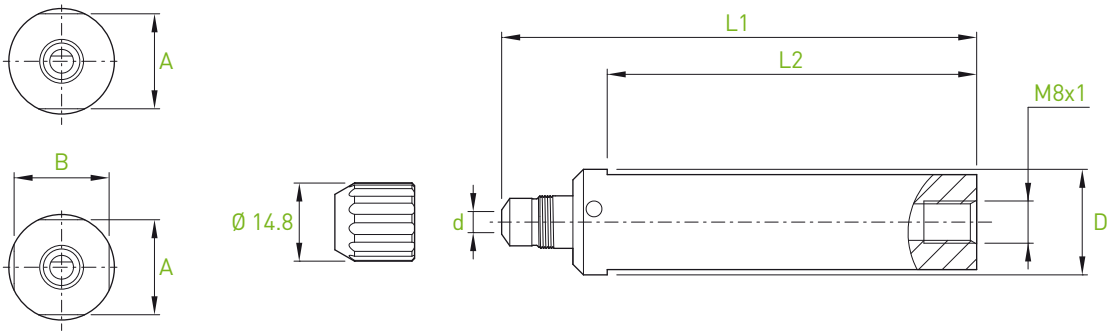
- zähe Basis Feinkornsorte
- erste Wahl für die Bearbeitung von Nichteisenmetalle

- tough base micro-grain grade
- first choice for non-ferrous materials

			Ø barre d'alésage Bohrstange Ø boring bar Ø		
Matière **Werkstoff** **Material**		VC (m/min)	Ø1.0 - Ø2.0 (mm/U)	Ø2.5 - Ø4.0 (mm/U)	Ø4.5 - Ø5.5 (mm/U)
Acier de décolletage Automatenstahl Free-cutting steel	P	60-100	0.02-0.03	0.02-0.08	0.03-0.10
Acier faiblement allié Leicht legierter Stahl Low alloyed steel	P	50-80	0.01-0.03	0.02-0.05	0.03-0.06
Acier fortement allié Legierter Stahl High alloyed steel	P	40-60	0.01-0.02	0.02-0.04	0.02-0.06
Acier inoxydable Rostfreistahl Stainless steel	M	40-90	0.01-0.03	0.02-0.05	0.03-0.08
Aluminium	N	60-150	0.01-0.03	0.02-0.06	0.03-0.10
Cuivre, laiton, bronze Kupfer, Messing, Bronze Copper, brass, bronze	N	60-150	0.01-0.03	0.02-0.05	0.03-0.08
Titane Titan Titanium	S	30-70	0.01-0.03	0.02-0.05	0.03-0.10

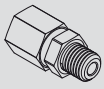
BH4-D

Porte-outils avec écrou de serrage
Halter mit Spannmutter
Holders with clamping nut



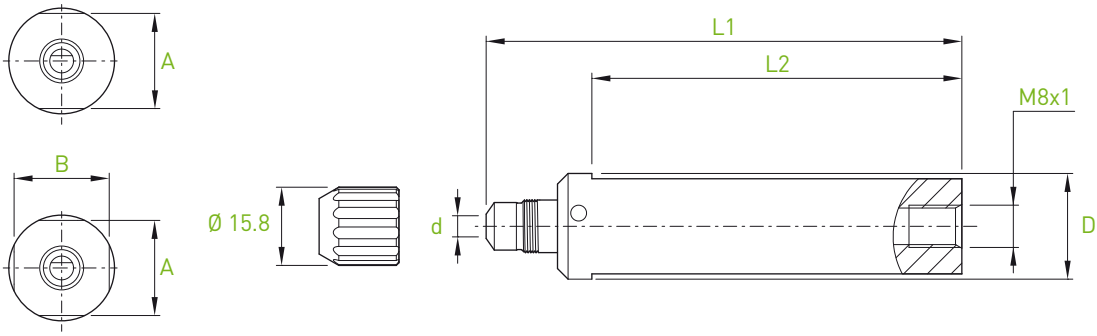
d	Bars	D	L1	L2	A x B	2 flats	4 flats	Art. N°
4	BB4... BF4...	10	75	55	8.8x8.8	●		**BH4-D10-75**
		12	75	55	11.2x11.2	●		**BH4-D12-75**
		12.7	75	55	11.2x11.2	●		**BH4-D12.7-75**
		15.87	75	55	14x14		●	**BH4-D15.87-75-F4**
		16	75	55	14x14	●		**BH4-D16-75**
		16	75	55	14x14		●	**BH4-D16-75-F4**
		16	110	90	14x14		●	**BH4-D16-110-F4**
		19.05	90	70	17x17		●	**BH4-D19.05-90-F4**
		20	90	70	18x18	●		**BH4-D20-90**
		20	90	70	18x18		●	**BH4-D20-90-F4**
		20	160	140	18x18		●	**BH4-D20-160-F4**
		22	90	70	20x20	●		**BH4-D22-90**
		22	90	70	20x20		●	**BH4-D22-90-F4**
		22	130	110	20x20		●	**BH4-D22-130-F4**
		25	100	80	23x23	●		**BH4-D25-100**
		25	100	80	23x23		●	**BH4-D25-100-F4**
		25	170	150	23x23		●	**BH4-D25-170-F4**
		25.4	100	80	23.4x23.4	●		**BH4-D25.4-100**
		28	100	80	26x26	●		**BH4-D28-100**

Pièces de rechange Ersatzteile Spare parts	Art. N°	Art. N°
BH4...	**BH4-M10**	**C-BH4-M10**

Option	 Art. N°
BH4...	**J-M8X1-D6**
	more option see JET-Line

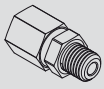
Porte-outils avec écrou de serrage
Halter mit Spannmutter
Holders with clamping nut

BH6-D



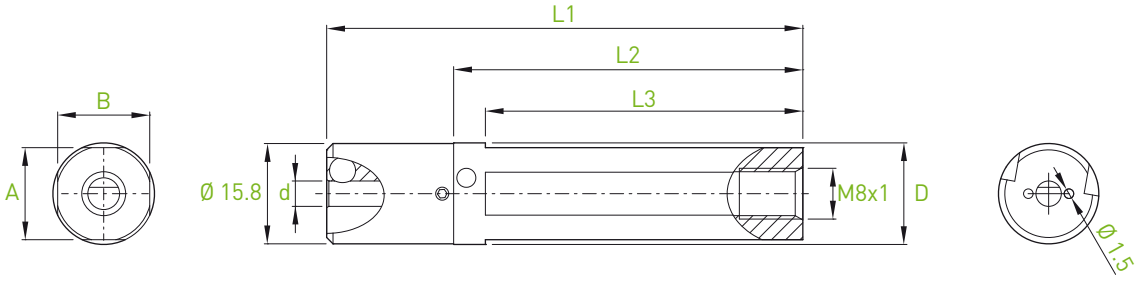
d	Bars	D	L1	L2	A x B	2 flats	4 flats	Art. N°
6	BB6... BF6...	12	75	55	11.2x11.2	●		**BH6-D12-75**
		12.7	75	55	11.2x11.2	●		**BH6-D12.7-75**
		15.87	75	55	14x14	●		**BH6-D15.87-75**
		16	75	55	14x14	●		**BH6-D16-75**
		19.05	90	70	17x17	●		**BH6-D19.05-90**
		20	90	70	18x18	●		**BH6-D20-90**
		20	90	70	18x18		●	**BH6-D20-90-F4**
		20	160	140	18x18		●	**BH6-D20-160-F4**
		22	90	70	20x20	●		**BH6-D22-90**
		22	90	70	20x20		●	**BH6-D22-90-F4**
		22	130	110	20x20		●	**BH6-D22-130-F4**
		25	100	80	23x23	●		**BH6-D25-100**
		25	100	80	23x23		●	**BH6-D25-100-F4**
		25	170	150	23x23		●	**BH6-D25-170-F4**
		25.4	100	80	23.4x23.4	●		**BH6-D25.4-100**
		28	100	80	26x26	●		**BH6-D28-100**

Pièces de rechange Ersatzteile Spare parts	Art. N°	Art. N°
BH6...	**BH6-M12**	**C-BH6-M12**

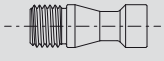
Option	 Art. N°
BH6...	**J-M8X1-D6**
	more option see JET-Line

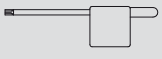
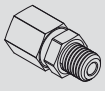
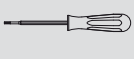
BHS4-D

Porte-outils avec arrosage multiple
Halter mit mehrfaches Kühlungssystem
Holders with multiple coolant system



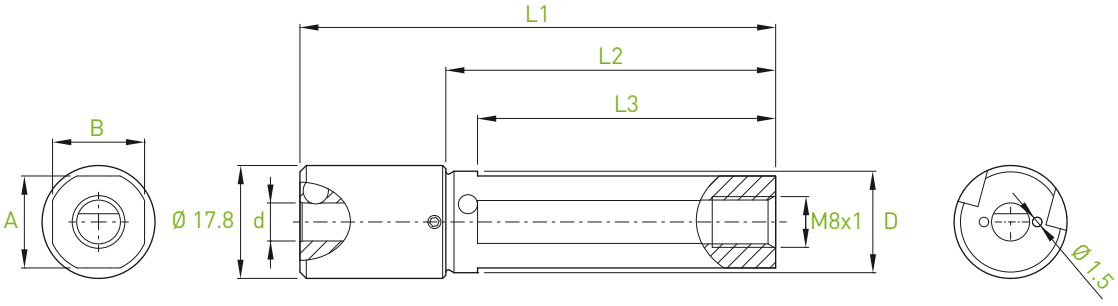
d	Bars	D	L1	L2	L3	A x B	Art. N°
4	BB4... BF4...	10	75	55	50	9.2x9.2	**BHS4-D10-75-F4**
		12	75	55	50	11x11	**BHS4-D12-75-F4**
		12.7	75	55	50	11.7x11.7	**BHS4-D12.7-75-F4**
		15.87	75	55	50	14.5x14.5	**BHS4-D15.87-75-F4**
		16	75	55	50	14.5x14.5	**BHS4-D16-75-F4**
		16	110	90	85	14.5x14.5	**BHS4-D16-110-F4**
		19.05	90	70	65	17x17	**BHS4-D19.05-90-F4**
		20	90	70	65	18x18	**BHS4-D20-90-F4**
		20	160	140	135	18x18	**BHS4-D20-160-F4**
		22	90	70	65	20x20	**BHS4-D22-90-F4**
		22	130	110	105	20x20	**BHS4-D22-130-F4**
		25	100	80	75	23x23	**BHS4-D25-100-F4**
		25	170	150	145	23x23	**BHS4-D25-170-F4**
		25.4	100	80	75	23x23	**BHS4-D25.4-100-F4**
		28	100	80	75	26x26	**BHS4-D28-100-F4**

Pièces de rechange Ersatzteile Spare parts	 **Art. N°**
BHS4...	**V-BHS-M4X0.5-T8**

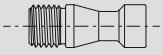
Option	 **Art. N°**	 **Art. N°**	 **Art. N°**
BHS4...	**C-T8**	**J-M8X1-D6** more option see JET-Line	**SET-NM1.2-TX8**

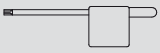
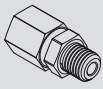
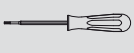
Porte-outils avec arrosage multiple
Halter mit mehrfaches Kühlungssystem
Holders with multiple coolant system

BHS6-D



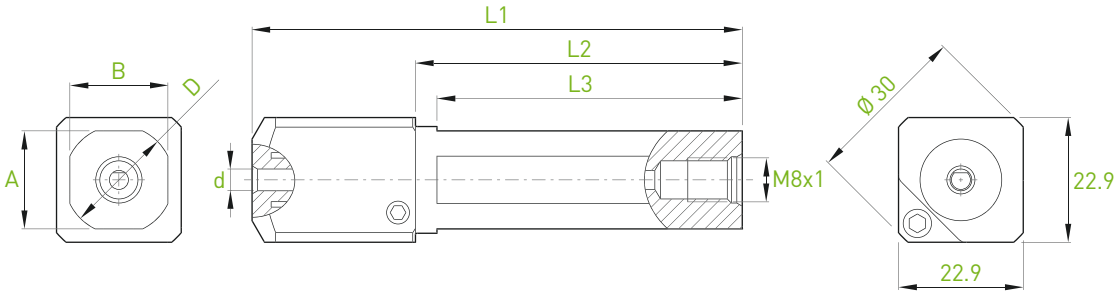
d	Bars	D	L1	L2	L3	A x B	Art. N°
6	BB6... BF6...	12	75	52	47	11x11	**BHS6-D12-75-F4**
		12.7	75	52	47	11.7x11.7	**BHS6-D12.7-75-F4**
		15.87	75	52	47	14.5x14.5	**BHS6-D15.87-75-F4**
		16	75	52	47	14.5x14.5	**BHS6-D16-75-F4**
		16	110	87	82	14.5x14.5	**BHS6-D16-110-F4**
		19.05	90	67	62	17x17	**BHS6-D19.05-90-F4**
		20	90	67	62	18x18	**BHS6-D20-90-F4**
		20	160	137	132	18x18	**BHS6-D20-160-F4**
		22	90	67	62	20x20	**BHS6-D22-90-F4**
		22	130	107	102	20x20	**BHS6-D22-130-F4**
		25	100	77	72	23x23	**BHS6-D25-100-F4**
		25	170	147	142	23x23	**BHS6-D25-170-F4**
		25.4	100	77	72	23x23	**BHS6-D25.4-100-F4**
		28	100	77	72	26x26	**BHS6-D28-100-F4**

Pièces de rechange Ersatzteile Spare parts	 Art. N°
BHS4...	**V-BHS-M4X0.5-T8**

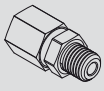
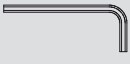
Option	 Art. N°	 Art. N°	 Art. N°
BHS6...	**C-T8**	**J-M8X1-D6** more option see JET-Line	**SET-NM1.2-TX8**

BHY4-D

Porte-outils à serrage hydraulique
Hydro-Dehnspann-System Halter
Holders with hydraulic clamping system

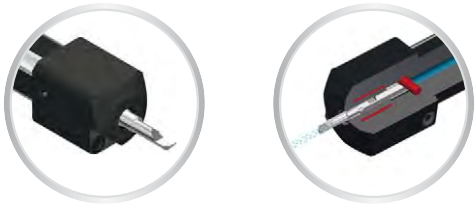


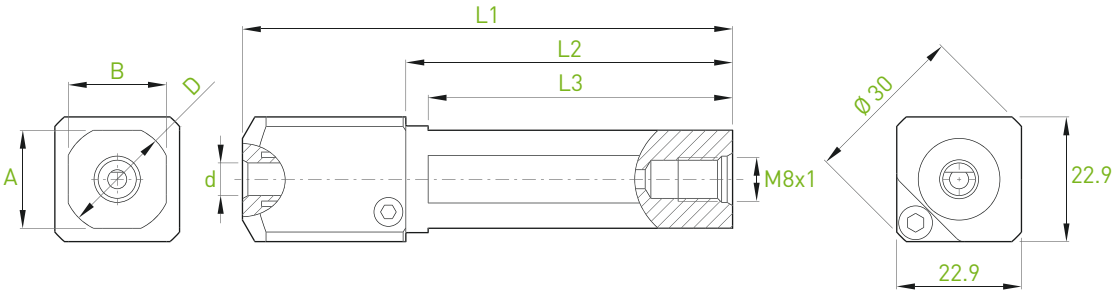
d	Bars	D	L1	L2	L3	A x B	Art. N°
4	BB4... BF4...	12	90	60	55	11.2x11.2	**BHY4-D12-90-F4**
		16	90	60	55	14.5x14.5	**BHY4-D16-90-F4**
		19.05	90	60	55	17x17	**BHY4-D19.05-90-F4**
		20	90	60	55	18x18	**BHY4-D20-90-F4**
		22	90	60	55	20x20	**BHY4-D22-90-F4**
		25	100	70	65	23x23	**BHY4-D25-100-F4**

Pièces de rechange Ersatzteile Spare parts	 Art. N°	 Art. N°
BHY4...	**J-M8X1-D6** more option see JET-Line	**C-6P-3.0**

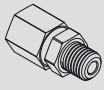
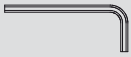
Porte-outils à serrage hydraulique
Hydro-Dehnspann-System Halter
Holders with hydraulic clamping system

BHY6-D



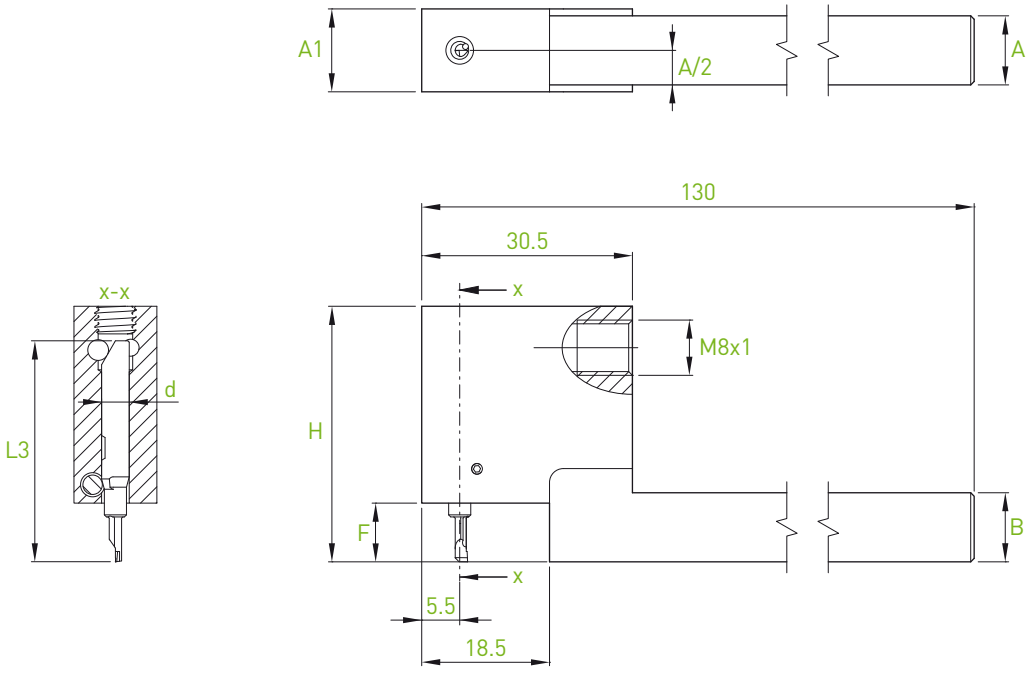


d	Bars	D	L1	L2	L3	A x B	Art. N°
6	BB6... BF6...	12	90	60	55	11.2x11.2	**BHY6-D12-90-F4**
		16	90	60	55	14.5x14.5	**BHY6-D16-90-F4**
		19.05	90	60	55	17x17	**BHY6-D19.05-90-F4**
		20	90	60	55	18x18	**BHY6-D20-90-F4**
		22	90	60	55	20x20	**BHY6-D22-90-F4**
		25	100	70	65	23x23	**BHY6-D25-100-F4**

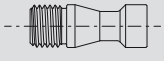
Pièces de rechange Ersatzteile Spare parts	 Art. N°	 Art. N°
BHY6...	**J-M8X1-D6** more option see JET-Line	**C-6P-3.0**

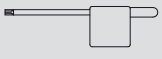
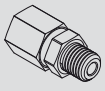
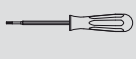
BHK4N

Porte-outils coudés
Kröpfhalter
Cranked holders



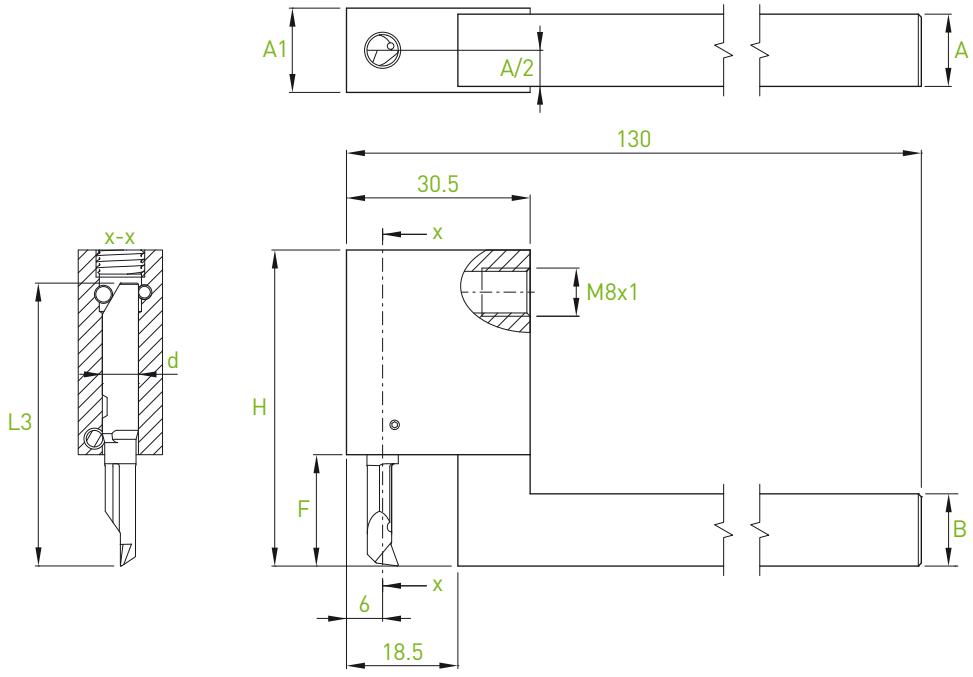
d	Bars	L3	A x B	F	H	A1	Art. N°
4	BB4R... BF4R...	32	8x8	8.5	37	12	**BHK4N-0808X-32R**
			10x10	8.5	37	12	**BHK4N-1010X-32R**
			12x12	8.5	37	12	**BHK4N-1212X-32R**
			16x16	8.5	37	16	**BHK4N-1616X-32R**
		37	8x8	13.5	42	12	**BHK4N-0808X-37R**
			10x10	13.5	42	12	**BHK4N-1010X-37R**
			12x12	13.5	42	12	**BHK4N-1212X-37R**
			16x16	13.5	42	16	**BHK4N-1616X-37R**
		42	10x10	18.5	47	12	**BHK4N-1010X-42R**
			12x12	18.5	47	12	**BHK4N-1212X-42R**
			16x16	18.5	47	16	**BHK4N-1616X-42R**

Pièces de rechange Ersatzteile Spare parts	
	Art. N°
BHK4N...	**V-BHK-M4X0.5-T8**

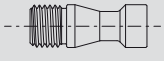
Option			
	Art. N°	Art. N°	Art. N°
BHK4N...	**C-T8**	**J-M8X1-D6** more option see JET-Line	**SET-NM1.2-TX8**

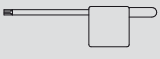
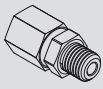
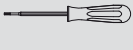
Porte-outils coudés
Kröpfhalter
Cranked holders

BHK6N



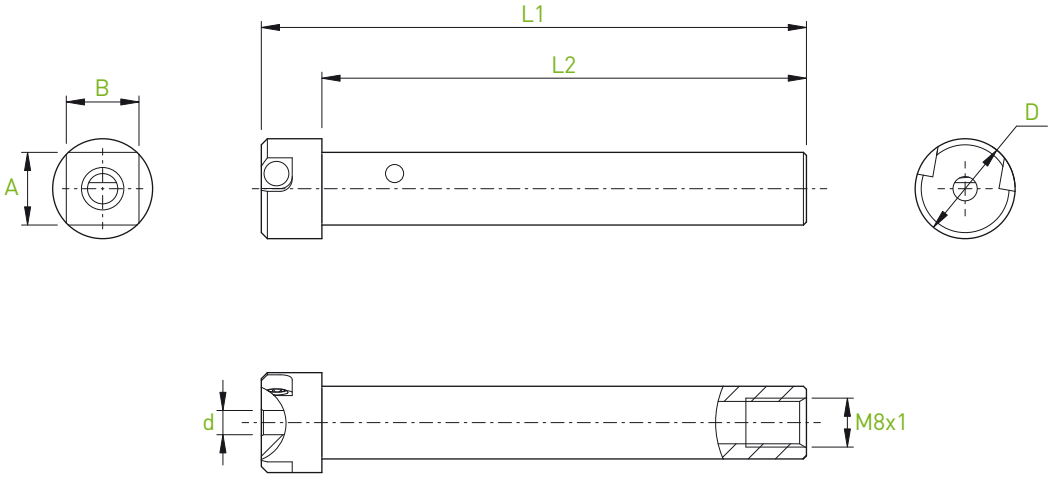
d	Bars	L3	A x B	F	H	A1	Art. N°
6	BB6R... BF6R...	47	10x10	18.5	52.5	12	**BHK6N-1010X-47R**
			12x12	18.5	52.5	12	**BHK6N-1212X-47R**
			16x16	18.5	52.5	16	**BHK6N-1616X-47R**
		57	10x10	28.5	62.5	12	**BHK6N-1010X-57R**
			12x12	28.5	62.5	12	**BHK6N-1212X-57R**
			16x16	28.5	62.5	16	**BHK6N-1616X-57R**

Pièces de rechange Ersatzteile Spare parts	 Art. N°
BHK6N...	**V-BHK-M4X0.5-T8**

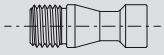
Option	 Art. N°	 Art. N°	 Art. N°
BHK6N...	**C-T8**	**J-M8X1-D6** more option see JET-Line	**SET-NM1.2-TX8**

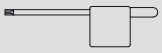
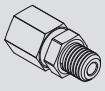
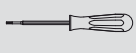
BHS4

Porte-outils section carrée
Viereckige Halter
Square holders



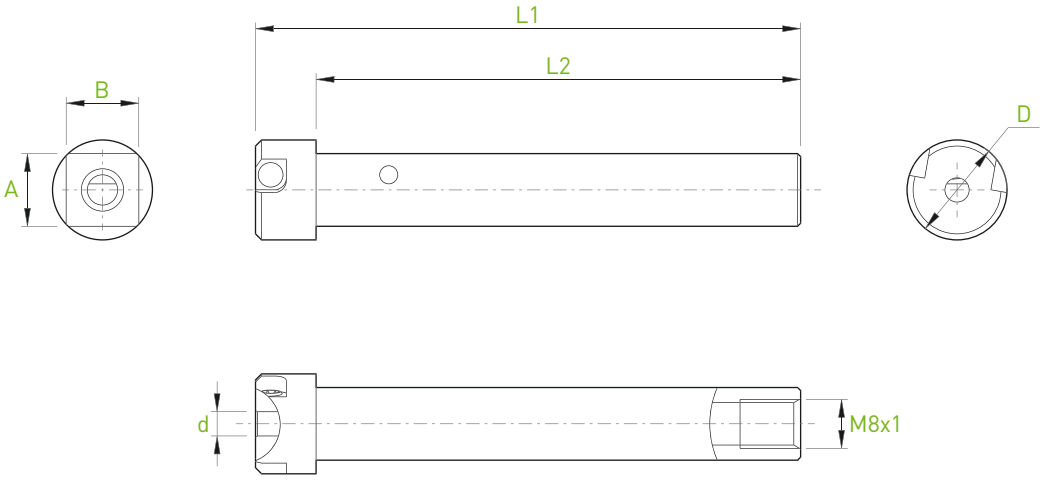
d	Bars	A x B	L1	L2	D	Art. N°
4	BB4... BF4...	12x12	90	80	16.5	**BHS4-1212-90**
		16x16	100	90	15.5	**BHS4-1616-100**

Pièces de rechange Ersatzteile Spare parts	
	Art. N°
BHS4...	**V-BHS-M4X0.5-T8**

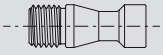
Option			
	Art. N°	Art. N°	Art. N°
BHS4...	**C-T8**	**J-M8X1-D6**	**SET-NM1.2-TX8**
		more option see JET-Line	

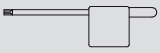
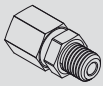
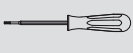
Porte-outils section carrée
Viereckige Halter
Square holders

BHS6



d	Bars	A x B	L1	L2	D	Art. N°
6	BB6... BF6...	12x12	90	80	17.5	**BHS6-1212-90**
		16x16	100	-	-	**BHS6-1616-100**

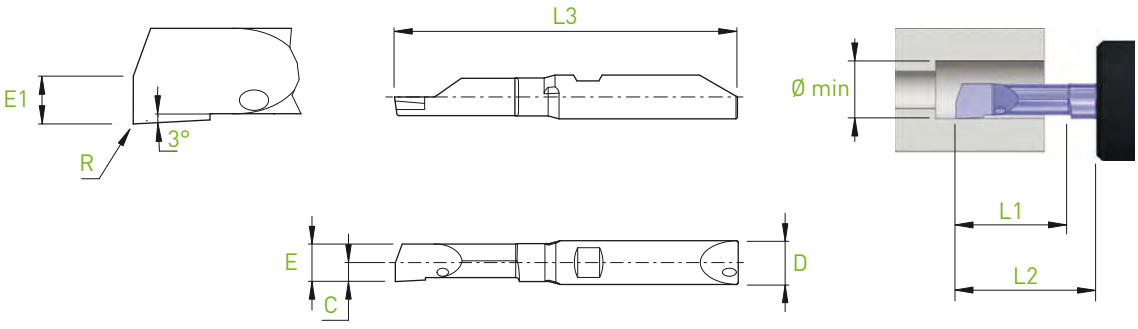
Pièces de rechange Ersatzteile Spare parts	
	Art. N°
BHS6...	**V-BHS-M4X0.5-T8**

Option			
	Art. N°	Art. N°	Art. N°
BHS6...	**C-T8**	**J-M8X1-D6**	**SET-NM1.2-TX8**
		more option see JET-Line	

BA

BB4...

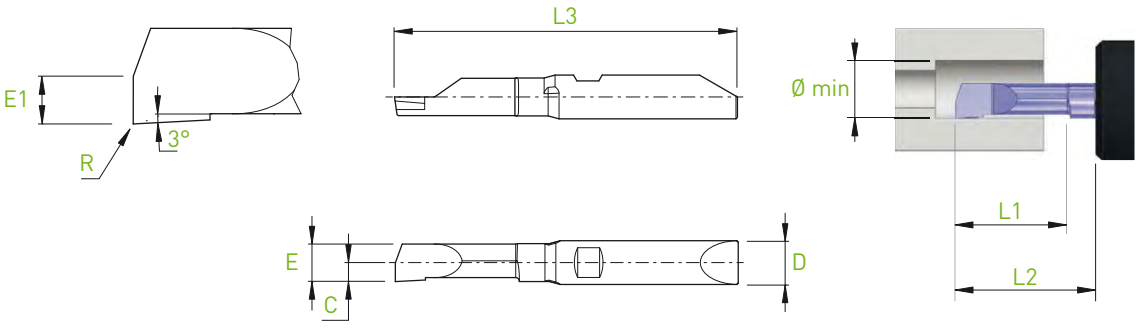
Alésage
Ausbohren
Boring



												R			L	
D h5	Holder	Ø min	L1	L2 BH4... BHY4...	L2 BHS4... BHK4...	E	E1	C	R	L3	Art. N°	P M N S ZTAF	P M S ZTAXF	P N S ZN	P M N S ZTAF	P N S ZN
4	BH4... BHS4... BHY4... BHK4...	0.3	0.9	10	8.5	0.27	0.13	0.15	0	32	**BB4R/L-0309-BA**	●	●	●	●	●
		0.4	1.2	10	8.5	0.36	0.18	0.20	0	32	**BB4R/L-0412-BA**	●	●	●	●	●
		0.5	1.5	10	8.5	0.45	0.22	0.25	0	32	**BB4R/L-0515-BA**	●	●	●	●	●
		0.6	1.8	10	8.5	0.54	0.27	0.30	0	32	**BB4R/L-0618-BA**	●	●	●	●	●
		0.7	2.1	10	8.5	0.63	0.31	0.35	0	32	**BB4R/L-0721-BA**	●	●	●	●	●
		0.8	2.4	10	8.5	0.72	0.36	0.40	0	32	**BB4R/L-0824-BA**	●	●	●	●	●
		0.9	2.7	10	8.5	0.81	0.40	0.45	0	32	**BB4R/L-0927-BA**	●	●	●	●	●
		1.0	3.0	10	8.5	0.90	0.45	0.60	0.02	32	**BB4R/L-1030-BA-R02**	●	●	●	●	●
		1.2	3.6	10	8.5	1.08	0.54	0.60	0.02	32	**BB4R/L-1236-BA-R02**	●	●	●	●	●
		1.5	4.5	10	8.5	1.35	0.67	0.65	0.02	32	**BB4R/L-1545-BA-R02**	●	●	●	●	●
		2.0	6.0	10	8.5	1.80	0.90	1.15	0.02	32	**BB4R/L-2060-BA-R02**	●	●	●	●	●
		2.5	7.5	10	8.5	2.25	1.13	1.30	0.02	32	**BB4R/L-2575-BA-R02**	●	●	●	●	●
		3.0	9.0	15	13.5	2.70	1.35	1.35	0.05	37	**BB4R/L-3090-BA-R05**	●	●	●	●	●
		3.5	10.5	15	13.5	3.15	1.58	1.60	0.05	37	**BB4R/L-35105-BA-R05**	●	●	●	●	●

Alésage
Ausbohren
Boring

BF4... | **BA**



												R			L	
D h5	Holder	Ø min	L1	L2 BH4... BHY4...	L2 BHS4... BHK4...	E	E1	C	R	L3	Art. N°	ZTAF	ZTAXF	ZN	ZTAF	ZN
4	BH4... BHS4... BHY4... BHK4...	0.3	0.9	10	8.5	0.27	0.13	0.15	0	32	**BF4R/L-0309-BA**	●	●	●	●	●
		0.4	1.2	10	8.5	0.36	0.18	0.20	0	32	**BF4R/L-0412-BA**	●	●	●	●	●
		0.5	1.5	10	8.5	0.45	0.22	0.25	0	32	**BF4R/L-0515-BA**	●	●	●	●	●
		0.6	1.8	10	8.5	0.54	0.27	0.30	0	32	**BF4R/L-0618-BA**	●	●	●	●	●
		0.7	2.1	10	8.5	0.63	0.31	0.35	0	32	**BF4R/L-0721-BA**	●	●	●	●	●
		0.8	2.4	10	8.5	0.72	0.36	0.40	0	32	**BF4R/L-0824-BA**	●	●	●	●	●
		0.9	2.7	10	8.5	0.81	0.40	0.45	0	32	**BF4R/L-0927-BA**	●	●	●	●	●
		1.0	3.0	10	8.5	0.90	0.45	0.60	0.02	32	**BF4R/L-1030-BA-R02**	●	●	●	●	●
		1.2	3.6	10	8.5	1.08	0.54	0.60	0.02	32	**BF4R/L-1236-BA-R02**	●	●	●	●	●
		1.5	4.5	10	8.5	1.35	0.67	0.65	0.02	32	**BF4R/L-1545-BA-R02**	●	●	●	●	●
		2.0	6.0	10	8.5	1.80	0.90	1.15	0.02	32	**BF4R/L-2060-BA-R02**	●	●	●	●	●
		2.5	7.5	10	8.5	2.25	1.13	1.30	0.02	32	**BF4R/L-2575-BA-R02**	●	●	●	●	●
		3.0	9.0	15	13.5	2.70	1.35	1.35	0.05	37	**BF4R/L-3090-BA-R05**	●	●	●	●	●
		3.5	10.5	15	13.5	3.15	1.58	1.60	0.05	37	**BF4R/L-35105-BA-R05**	●	●	●	●	●

BAX

BB4... / BB6...

Alésage
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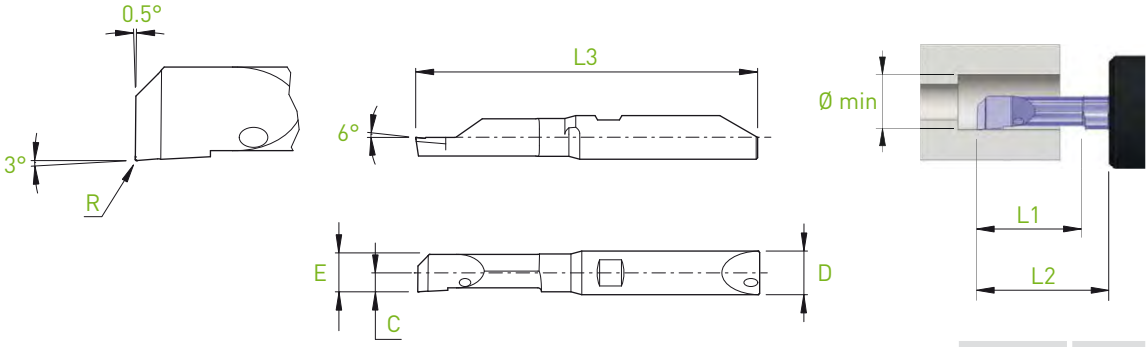
Boring



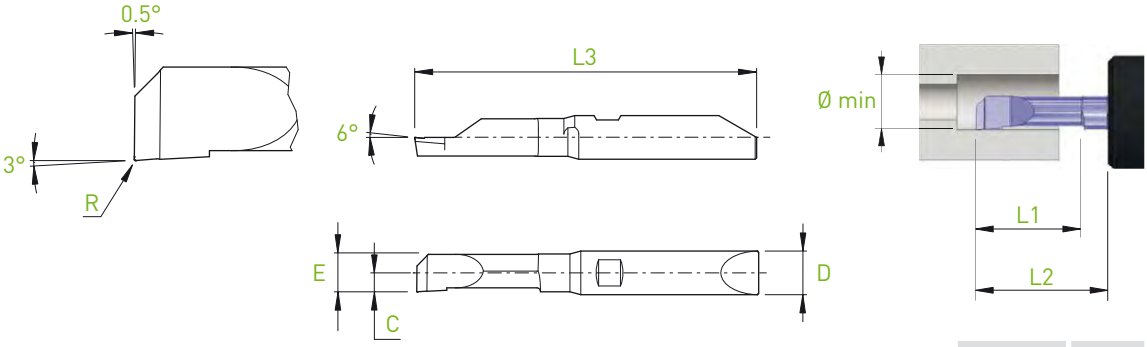
D h5	Holder	Ø min	L1	L2 BH4... BHY4...	L2 BHS4... BHK4...	E	C	R	L3	Art. N°	R ZTAF	R ZTAXF	R ZN	L ZTAF	L ZN
4	BH4... BHS4... BHY4... BHK4...	0.5	1.5	10	8.5	0.45	0.25	0	32	**BB4R/L-0515-BAX**	●	●	●	●	●
		0.6	1.8	10	8.5	0.54	0.30	0	32	**BB4R/L-0618-BAX**	●	●	●	●	●
		0.7	2.1	10	8.5	0.63	0.35	0	32	**BB4R/L-0721-BAX**	●	●	●	●	●
		0.8	2.4	10	8.5	0.72	0.40	0	32	**BB4R/L-0824-BAX**	●	●	●	●	●
		0.9	2.7	10	8.5	0.81	0.45	0	32	**BB4R/L-0927-BAX**	●	●	●	●	●
		1.0	3.0	10	8.5	0.90	0.60	0.02	32	**BB4R/L-1030-BAX-R02**	●	●	●	●	●
			5.0	10	8.5	0.90	0.60	0.02	32	**BB4R/L-1050-BAX-R02**	●	●	●	●	●
		1.5	4.5	10	8.5	1.35	0.65	0.02	32	**BB4R/L-1545-BAX-R02**	●	●	●	●	●
			7.5	10	8.5	1.35	0.65	0.02	32	**BB4R/L-1575-BAX-R02**	●	●	●	●	●
		2.0	6.0	10	8.5	1.80	1.15	0.02	32	**BB4R/L-2060-BAX-R02**	●	●	●	●	●
			10.0	15	13.5	1.80	1.15	0.02	37	**BB4R/L-20100-BAX-R02**	●	●	●	●	●
		2.5	7.5	10	8.5	2.25	1.30	0.05	32	**BB4R/L-2575-BAX-R05**	●	●	●	●	●
			12.5	15	13.5	2.25	1.30	0.05	37	**BB4R/L-25125-BAX-R05**	●	●	●	●	●
		3.0	9.0	15	13.5	2.70	1.35	0.05	37	**BB4R/L-3090-BAX-R05**	●	●	●	●	●
			15.0	20	18.5	2.70	1.35	0.05	42	**BB4R/L-30150-BAX-R05**	●	●	●	●	●
		3.5	10.5	15	13.5	3.15	1.60	0.05	37	**BB4R/L-35105-BAX-R05**	●	●	●	●	●
			17.5	20	18.5	3.15	1.60	0.05	42	**BB4R/L-35175-BAX-R05**	●	●	●	●	●

D h5	Holder	Ø min	L1	L2 BH6... BHY6...	L2 BHS6... BHK6...	E	C	R	L3	Art. N°	ZTAF	ZTAXF	ZN	ZTAF	ZN
6	BH6... BHS6... BHY6... BHK6...	4.0	12.0	20	18.5	3.80	2.20	0.05	47	**BB6R/L-40120-BAX-R05**	●	●	●	●	●
			20.0	30	28.5	3.80	2.20	0.05	57	**BB6R/L-40200-BAX-R05**	●	●	●	●	●
		4.5	13.5	20	18.5	4.28	2.30	0.05	47	**BB6R/L-45135-BAX-R05**	●	●	●	●	●
			22.5	30	28.5	4.28	2.30	0.05	57	**BB6R/L-45225-BAX-R05**	●	●	●	●	●
		5.0	15.0	20	18.5	4.75	2.40	0.05	47	**BB6R/L-50150-BAX-R05**	●	●	●	●	●
			25.0	30	28.5	4.75	2.40	0.05	57	**BB6R/L-50250-BAX-R05**	●	●	●	●	●
		5.5	16.5	20	18.5	5.15	2.60	0.05	47	**BB6R/L-55165-BAX-R05**	●	●	●	●	●
			27.5	30	28.5	5.15	2.60	0.05	57	**BB6R/L-55275-BAX-R05**	●	●	●	●	●

Alésage
Ausbohren
Boring

BF4... / BF6...

BAX



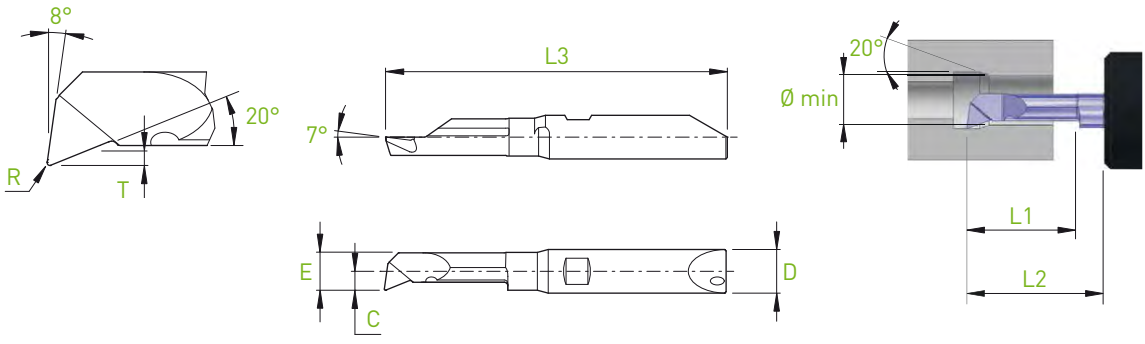
											R			L	
D h5	Holder	Ø min	L1	L2 BH4... BHY4...	L2 BHS4... BHK4...	E	C	R	L3	Art. N°	ZTAF	ZTAXF	ZN	ZTAF	ZN
4	BH4... BHS4... BHY4... BHK4...	0.5	1.5	10	8.5	0.45	0.25	0	32	BF4R/L-0515-BAX	●	●	●	●	●
		0.6	1.8	10	8.5	0.54	0.30	0	32	BF4R/L-0618-BAX	●	●	●	●	●
		0.7	2.1	10	8.5	0.63	0.35	0	32	BF4R/L-0721-BAX	●	●	●	●	●
		0.8	2.4	10	8.5	0.72	0.40	0	32	BF4R/L-0824-BAX	●	●	●	●	●
		0.9	2.7	10	8.5	0.81	0.45	0	32	BF4R/L-0927-BAX	●	●	●	●	●
		1.0	3.0	10	8.5	0.90	0.60	0.02	32	BF4R/L-1030-BAX-R02	●	●	●	●	●
			5.0	10	8.5	0.90	0.60	0.02	32	BF4R/L-1050-BAX-R02	●	●	●	●	●
		1.5	4.5	10	8.5	1.35	0.65	0.02	32	BF4R/L-1545-BAX-R02	●	●	●	●	●
			7.5	10	8.5	1.35	0.65	0.02	32	BF4R/L-1575-BAX-R02	●	●	●	●	●
		2.0	6.0	10	8.5	1.80	1.15	0.02	32	BF4R/L-2060-BAX-R02	●	●	●	●	●
			10.0	15	13.5	1.80	1.15	0.02	37	BF4R/L-20100-BAX-R02	●	●	●	●	●
		2.5	7.5	10	8.5	2.25	1.30	0.05	32	BF4R/L-2575-BAX-R05	●	●	●	●	●
			12.5	15	13.5	2.25	1.30	0.05	37	BF4R/L-25125-BAX-R05	●	●	●	●	●
		3.0	9.0	15	13.5	2.70	1.35	0.05	37	BF4R/L-3090-BAX-R05	●	●	●	●	●
			15.0	20	18.5	2.70	1.35	0.05	42	BF4R/L-30150-BAX-R05	●	●	●	●	●
		3.5	10.5	15	13.5	3.15	1.60	0.05	37	BF4R/L-35105-BAX-R05	●	●	●	●	●
			17.5	20	18.5	3.15	1.60	0.05	42	BF4R/L-35175-BAX-R05	●	●	●	●	●

D h5	Holder	Ø min	L1	L2 BH6... BHY6...	L2 BHS6... BHK6...	E	C	R	L3	Art. N°	ZTAF	ZTAXF	ZN	ZTAF	ZN
6	BH6... BHS6... BHY6... BHK6...	4.0	12.0	20	18.5	3.80	2.20	0.05	47	BF6R/L-40120-BAX-R05	●	●	●	●	●
			20.0	30	28.5	3.80	2.20	0.05	57	BF6R/L-40200-BAX-R05	●	●	●	●	●
		4.5	13.5	20	18.5	4.28	2.30	0.05	47	BF6R/L-45135-BAX-R05	●	●	●	●	●
			22.5	30	28.5	4.28	2.30	0.05	57	BF6R/L-45225-BAX-R05	●	●	●	●	●
		5.0	15.0	20	18.5	4.75	2.40	0.05	47	BF6R/L-50150-BAX-R05	●	●	●	●	●
			25.0	30	28.5	4.75	2.40	0.05	57	BF6R/L-50250-BAX-R05	●	●	●	●	●
		5.5	16.5	20	18.5	5.15	2.60	0.05	47	BF6R/L-55165-BAX-R05	●	●	●	●	●
			27.5	30	28.5	5.15	2.60	0.05	57	BF6R/L-55275-BAX-R05	●	●	●	●	●

BCX

BB4... / BB6...

Alésage-copiage
Ausbohren-kopieren
Boring-chambering



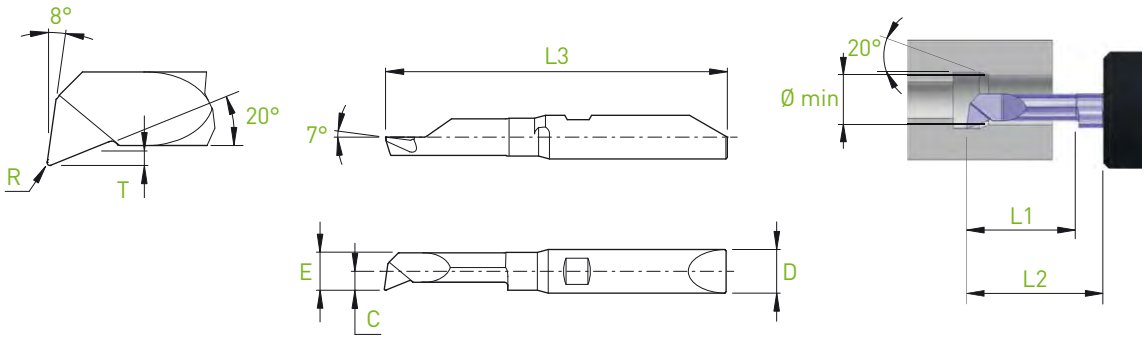
												R			L	
D h5	Holder	Ø min	L1	L2 BH4... BHY4...	L2 BHS4... BHK4...	T	E	C	R	L3	Art. N°	ZTAF	ZTAXF	ZN	ZTAF	ZN
4	BH4... BHS4... BHY4... BHK4...	1.0	3.0	10	8.5	0.15	0.90	0.70	0.05	32	BB4R/L-1030-BCX-R05	●	●	●	●	●
			5.0	10	8.5	0.15	0.90	0.70	0.05	32	BB4R/L-1050-BCX-R05	●	●	●	●	●
		1.5	4.5	10	8.5	0.23	1.35	0.75	0.05	32	BB4R/L-1545-BCX-R05	●	●	●	●	●
			7.5	10	8.5	0.23	1.35	0.75	0.05	32	BB4R/L-1575-BCX-R05	●	●	●	●	●
		2.0	6.0	10	8.5	0.30	1.80	1.15	0.05	32	BB4R/L-2060-BCX-R05	●	●	●	●	●
			10.0	15	13.5	0.30	1.80	1.15	0.05	37	BB4R/L-20100-BCX-R05	●	●	●	●	●
		2.5	7.5	10	8.5	0.38	2.25	1.30	0.10	32	BB4R/L-2575-BCX-R10	●	●	●	●	●
			12.5	15	13.5	0.38	2.25	1.30	0.10	37	BB4R/L-25125-BCX-R10	●	●	●	●	●
		3.0	9.0	15	13.5	0.45	2.70	1.35	0.10	37	BB4R/L-3090-BCX-R10	●	●	●	●	●
			15.0	20	18.5	0.45	2.70	1.35	0.10	42	BB4R/L-30150-BCX-R10	●	●	●	●	●
		3.5	10.5	15	13.5	0.53	3.15	1.60	0.10	37	BB4R/L-35105-BCX-R10	●	●	●	●	●
			17.5	20	18.5	0.53	3.15	1.60	0.10	42	BB4R/L-35175-BCX-R10	●	●	●	●	●

D h5	Holder	Ø min	L1	L2 BH6... BHY6...	L2 BHS6... BHK6...	T	E	C	R	L3	Art. N°	ZTAF	ZTAXF	ZN	ZTAF	ZN
6	BH6... BHS6... BHY6... BHK6...	4.0	12.0	20	18.5	0.60	3.80	2.20	0.15	47	BB6R/L-40120-BCX-R15	●	●	●	●	●
			20.0	30	28.5	0.60	3.80	2.20	0.15	57	BB6R/L-40200-BCX-R15	●	●	●	●	●
		4.5	13.5	20	18.5	0.68	4.28	2.30	0.15	47	BB6R/L-45135-BCX-R15	●	●	●	●	●
			22.5	30	28.5	0.68	4.28	2.30	0.15	57	BB6R/L-45225-BCX-R15	●	●	●	●	●
		5.0	15.0	20	18.5	0.75	4.75	2.40	0.15	47	BB6R/L-50150-BCX-R15	●	●	●	●	●
			25.0	30	28.5	0.75	4.75	2.40	0.15	57	BB6R/L-50250-BCX-R15	●	●	●	●	●
		5.5	16.5	20	18.5	0.83	5.15	2.60	0.15	47	BB6R/L-55165-BCX-R15	●	●	●	●	●
			27.5	30	28.5	0.83	5.15	2.60	0.15	57	BB6R/L-55275-BCX-R15	●	●	●	●	●

Alésage-copiage
Ausbohren-kopieren
Boring-chambering

BF4... / BF6...

BCX



												R			L	
D h5	Holder	Ø min	L1	L2 BH4... BHY4...	L2 BHS4... BHK4...	T	E	C	R	L3	Art. N°	ZTAF	ZTAXF	ZN	ZTAF	ZN
4	BH4... BHS4... BHY4... BHK4...	1.0	3.0	10	8.5	0.15	0.90	0.70	0.05	32	BF4R/L-1030-BCX-R05	●	●	●	●	●
			5.0	10	8.5	0.15	0.90	0.70	0.05	32	BF4R/L-1050-BCX-R05	●	●	●	●	●
		1.5	4.5	10	8.5	0.23	1.35	0.75	0.05	32	BF4R/L-1545-BCX-R05	●	●	●	●	●
			7.5	10	8.5	0.23	1.35	0.75	0.05	32	BF4R/L-1575-BCX-R05	●	●	●	●	●
		2.0	6.0	10	8.5	0.30	1.80	1.15	0.05	32	BF4R/L-2060-BCX-R05	●	●	●	●	●
			10.0	15	13.5	0.30	1.80	1.15	0.05	37	BF4R/L-20100-BCX-R05	●	●	●	●	●
		2.5	7.5	10	8.5	0.38	2.25	1.30	0.10	32	BF4R/L-2575-BCX-R10	●	●	●	●	●
			12.5	15	13.5	0.38	2.25	1.30	0.10	37	BF4R/L-25125-BCX-R10	●	●	●	●	●
		3.0	9.0	15	13.5	0.45	2.70	1.35	0.10	37	BF4R/L-3090-BCX-R10	●	●	●	●	●
			15.0	20	18.5	0.45	2.70	1.35	0.10	42	BF4R/L-30150-BCX-R10	●	●	●	●	●
		3.5	10.5	15	13.5	0.53	3.15	1.60	0.10	37	BF4R/L-35105-BCX-R10	●	●	●	●	●
			17.5	20	18.5	0.53	3.15	1.60	0.10	42	BF4R/L-35175-BCX-R10	●	●	●	●	●

D h5	Holder	Ø min	L1	L2 BH6... BHY6...	L2 BHS6... BHK6...	T	E	C	R	L3	Art. N°	ZTAF	ZTAXF	ZN	ZTAF	ZN
6	BH6... BHS6... BHY6... BHK6...	4.0	12.0	20	18.5	0.60	3.80	2.20	0.15	47	BF6R/L-40120-BCX-R15	●	●	●	●	●
			20.0	30	28.5	0.60	3.80	2.20	0.15	57	BF6R/L-40200-BCX-R15	●	●	●	●	●
		4.5	13.5	20	18.5	0.68	4.28	2.30	0.15	47	BF6R/L-45135-BCX-R15	●	●	●	●	●
			22.5	30	28.5	0.68	4.28	2.30	0.15	57	BF6R/L-45225-BCX-R15	●	●	●	●	●
		5.0	15.0	20	18.5	0.75	4.75	2.40	0.15	47	BF6R/L-50150-BCX-R15	●	●	●	●	●
			25.0	30	28.5	0.75	4.75	2.40	0.15	57	BF6R/L-50250-BCX-R15	●	●	●	●	●
		5.5	16.5	20	18.5	0.83	5.15	2.60	0.15	47	BF6R/L-55165-BCX-R15	●	●	●	●	●
			27.5	30	28.5	0.83	5.15	2.60	0.15	57	BF6R/L-55275-BCX-R15	●	●	●	●	●

C45

BB4... / BB6...

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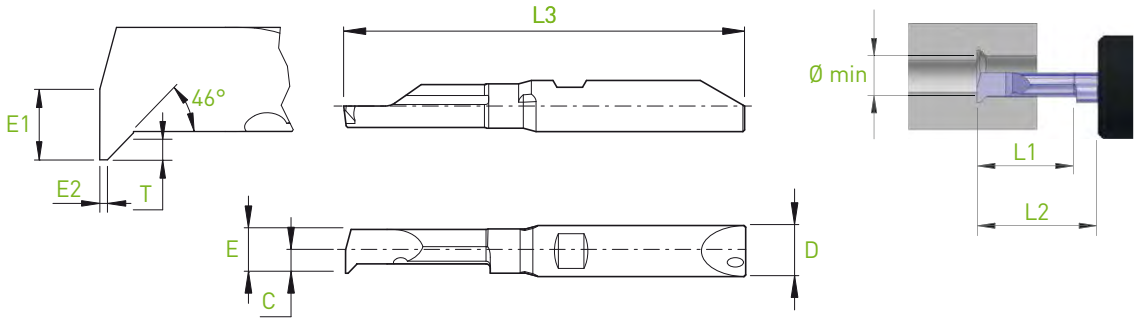

													R			L	
D h5	Holder	Ø min	L1	L2 BH4... BHY4...	L2 BHS4... BHK4...	T	E	E1	C	E2	L3	Art. N°	ZTAF	ZTAXF	ZN	ZTAF	ZN
4	BH4... BHS4... BHY4... BHK4...	0.3	0.6	10	8.5	0.05	0.27	0.13	0.15	0.03	32	**BB4R/L-0306-C45-E03**	●	●	●	●	●
		0.4	0.8	10	8.5	0.07	0.36	0.18	0.20	0.03	32	**BB4R/L-0408-C45-E03**	●	●	●	●	●
		0.5	1.0	10	8.5	0.08	0.45	0.22	0.25	0.03	32	**BB4R/L-0510-C45-E03**	●	●	●	●	●
		0.6	1.2	10	8.5	0.10	0.54	0.27	0.30	0.03	32	**BB4R/L-0612-C45-E03**	●	●	●	●	●
		0.7	1.2	10	8.5	0.12	0.63	0.32	0.35	0.03	32	**BB4R/L-0714-C45-E03**	●	●	●	●	●
		0.8	1.6	10	8.5	0.14	0.72	0.36	0.40	0.05	32	**BB4R/L-0816-C45-E05**	●	●	●	●	●
		0.9	1.8	10	8.5	0.15	0.81	0.41	0.45	0.05	32	**BB4R/L-0918-C45-E05**	●	●	●	●	●
		1.0	3.0	10	8.5	0.17	0.90	0.45	0.70	0.10	32	**BB4R/L-1030-C45-E10**	●	●	●	●	●
		1.2	3.6	10	8.5	0.20	1.08	0.54	0.70	0.10	32	**BB4R/L-1236-C45-E10**	●	●	●	●	●
		1.5	4.5	10	8.5	0.25	1.35	0.67	0.75	0.10	32	**BB4R/L-1545-C45-E10**	●	●	●	●	●
		2.0	6.0	10	8.5	0.34	1.80	0.90	1.15	0.20	32	**BB4R/L-2060-C45-E20**	●	●	●	●	●
		2.5	7.5	10	8.5	0.43	2.25	1.13	1.30	0.20	32	**BB4R/L-2575-C45-E20**	●	●	●	●	●
		3.0	9.0	15	13.5	0.51	2.70	1.35	1.35	0.30	37	**BB4R/L-3090-C45-E30**	●	●	●	●	●
		3.5	10.5	15	13.5	0.60	3.15	1.58	1.60	0.30	37	**BB4R/L-35105-C45-E30**	●	●	●	●	●

D h5	Holder	Ø min	L1	L2 BH6... BHY6...	L2 BHS6... BHK6...	T	E	E1	C	E2	L3	Art. N°	ZTAF	ZTAXF	ZN	ZTAF	ZN
6	BH6... BHS6... BHY6... BHK6...	4.0	12.0	20	18.5	0.68	3.80	1.90	2.30	0.40	47	**BB6R/L-40120-C45-E40**	●	●	●	●	●
		5.0	15.0	20	18.5	0.85	4.75	2.37	2.50	0.50	47	**BB6R/L-50150-C45-E50**	●	●	●	●	●

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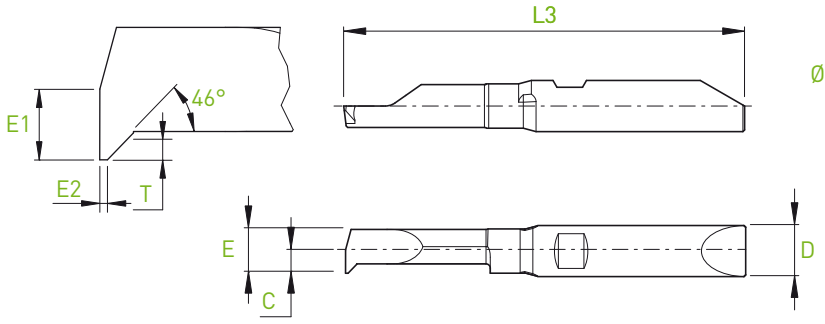

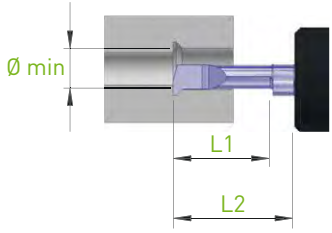

													R			L	
D h5	Holder	Ø min	L1	L2 BH4... BHY4...	L2 BHS4... BHK4...	T	E	E1	C	E2	L3	Art. N°	ZTAF	ZTAXF	ZN	ZTAF	ZN
4	BH4... BHS4... BHY4... BHK4...	0.3	0.6	10	8.5	0.05	0.27	0.13	0.15	0.03	32	**BF4R/L-0306-C45-E03**	●	●	●	●	●
		0.4	0.8	10	8.5	0.07	0.36	0.18	0.20	0.03	32	**BF4R/L-0408-C45-E03**	●	●	●	●	●
		0.5	1.0	10	8.5	0.08	0.45	0.22	0.25	0.03	32	**BF4R/L-0510-C45-E03**	●	●	●	●	●
		0.6	1.2	10	8.5	0.10	0.54	0.27	0.30	0.03	32	**BF4R/L-0612-C45-E03**	●	●	●	●	●
		0.7	1.4	10	8.5	0.12	0.63	0.32	0.35	0.03	32	**BF4R/L-0714-C45-E03**	●	●	●	●	●
		0.8	1.6	10	8.5	0.14	0.72	0.36	0.40	0.05	32	**BF4R/L-0816-C45-E05**	●	●	●	●	●
		0.9	1.8	10	8.5	0.15	0.81	0.41	0.45	0.05	32	**BF4R/L-0918-C45-E05**	●	●	●	●	●
		1.0	3.0	10	8.5	0.17	0.90	0.45	0.70	0.10	32	**BF4R/L-1030-C45-E10**	●	●	●	●	●
		1.2	3.6	10	8.5	0.20	1.08	0.54	0.70	0.10	32	**BF4R/L-1236-C45-E10**	●	●	●	●	●
		1.5	4.5	10	8.5	0.25	1.35	0.67	0.75	0.10	32	**BF4R/L-1545-C45-E10**	●	●	●	●	●
		2.0	6.0	10	8.5	0.34	1.80	0.90	1.15	0.20	32	**BF4R/L-2060-C45-E20**	●	●	●	●	●
		2.5	7.5	10	8.5	0.43	2.25	1.13	1.30	0.20	32	**BF4R/L-2575-C45-E20**	●	●	●	●	●
		3.0	9.0	15	13.5	0.51	2.70	1.35	1.35	0.30	37	**BF4R/L-3090-C45-E30**	●	●	●	●	●
		3.5	10.5	15	13.5	0.60	3.15	1.58	1.60	0.30	37	**BF4R/L-35105-C45-E30**	●	●	●	●	●

D h5	Holder	Ø min	L1	L2 BH6... BHY6...	L2 BHS6... BHK6...	T	E	E1	C	E2	L3	Art. N°	ZTAF	ZTAXF	ZN	ZTAF	ZN
6	BH6... BHS6... BHY6... BHK6...	4.0	12.0	20	18.5	0.68	3.80	1.90	2.30	0.40	47	**BF6R/L-40120-C45-E40**	●	●	●	●	●
		5.0	15.0	20	18.5	0.85	4.75	2.37	2.50	0.50	47	**BF6R/L-50150-C45-E50**	●	●	●	●	●

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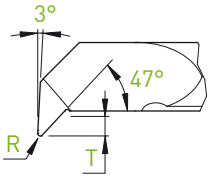

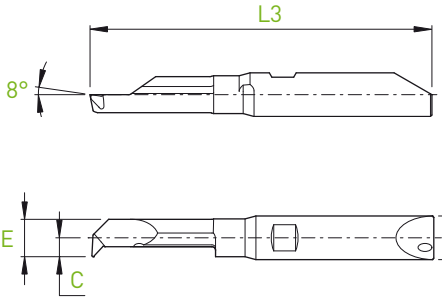

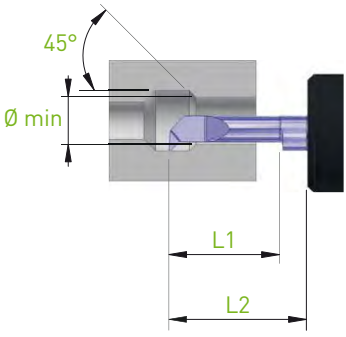

D h5	Holder	Ø min	L1	L2 BH4... BHY4...	L2 BHS4... BHK4...	T	E	C	R	L3	Art. N°	R ZTAF	R ZTAXF	R ZN	L ZTAF	L ZN
4	BH4... BHS4... BHY4... BHK4...	2.5	7.5	10	8.5	0.50	2.25	1.35	0.10	32	BB4R/L-2575-C45X-R10	●	●	●	●	●
			12.5	15	13.5	0.50	2.25	1.35	0.10	37	BB4R/L-25125-C45X-R10	●	●	●	●	●
		3.0	9.0	15	13.5	0.60	2.70	1.45	0.10	37	BB4R/L-3090-C45X-R10	●	●	●	●	●
			15.0	20	18.5	0.60	2.70	1.45	0.10	42	BB4R/L-30150-C45X-R10	●	●	●	●	●
		3.5	10.5	15	13.5	0.70	3.15	1.60	0.10	37	BB4R/L-35105-C45X-R10	●	●	●	●	●
			17.5	20	18.5	0.70	3.15	1.60	0.10	42	BB4R/L-35175-C45X-R10	●	●	●	●	●

D h5	Holder	Ø min	L1	L2 BH6... BHY6...	L2 BHS6... BHK6...	T	E	C	R	L3	Art. N°	ZTAF	ZTAXF	ZN	ZTAF	ZN
6	BH6... BHS6... BHY6... BHK6...	4.0	12.0	20	18.5	0.80	3.80	2.30	0.15	47	BB6R/L-40120-C45X-R15	●	●	●	●	●
			20.0	30	28.5	0.80	3.80	2.30	0.15	57	BB6R/L-40200-C45X-R15	●	●	●	●	●
		4.5	13.5	20	18.5	0.90	4.28	2.40	0.15	47	BB6R/L-45135-C45X-R15	●	●	●	●	●
			22.5	30	28.5	0.90	4.28	2.40	0.15	57	BB6R/L-45225-C45X-R15	●	●	●	●	●
		5.0	15.0	20	18.5	1.00	4.75	2.50	0.15	47	BB6R/L-50150-C45X-R15	●	●	●	●	●
			25.0	30	28.5	1.00	4.75	2.50	0.15	57	BB6R/L-50250-C45X-R15	●	●	●	●	●
		5.5	16.5	20	18.5	1.10	5.15	2.60	0.15	47	BB6R/L-55165-C45X-R15	●	●	●	●	●
			27.5	30	28.5	1.10	5.15	2.60	0.15	57	BB6R/L-55275-C45X-R15	●	●	●	●	●

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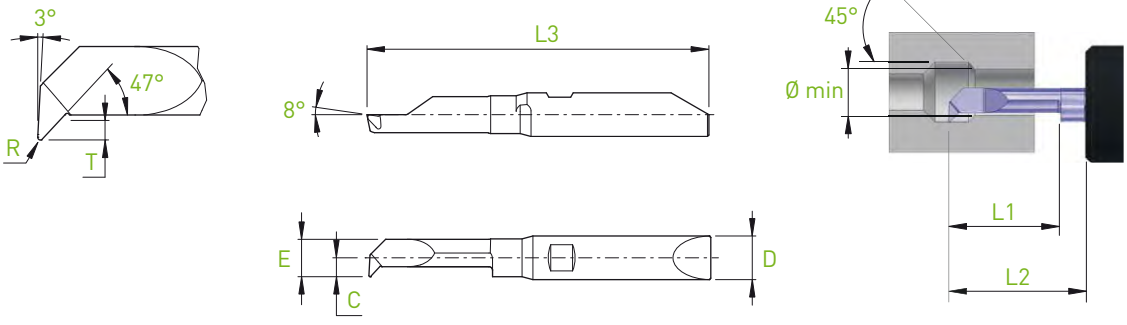
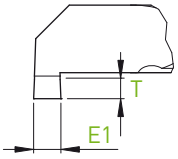
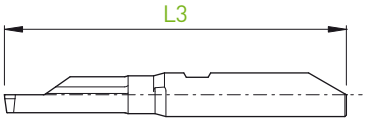
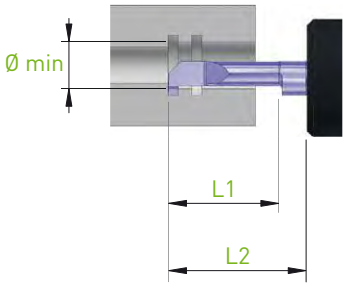


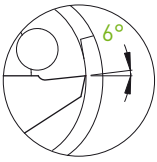
												R			L	
												P M N S	P M N S	P N S	P M N S	P N S
D h5	Holder	Ø min	L1	L2 BH4... BHY4...	L2 BHS4... BHK4...	T	E	C	R	L3	Art. N°	ZTAF	ZTAXF	ZN	ZTAF	ZN
4	BH4... BHS4... BHY4... BHK4...	2.5	7.5	10	8.5	0.50	2.25	1.35	0.10	32	**BF4R/L-2575-C45X-R10**	●	●	●	●	●
			12.5	15	13.5	0.50	2.25	1.35	0.10	37	**BF4R/L-25125-C45X-R10**	●	●	●	●	●
		3.0	9.0	15	13.5	0.60	2.70	1.45	0.10	37	**BF4R/L-3090-C45X-R10**	●	●	●	●	●
			15.0	20	18.5	0.60	2.70	1.45	0.10	42	**BF4R/L-30150-C45X-R10**	●	●	●	●	●
		3.5	10.5	15	13.5	0.70	3.15	1.60	0.10	37	**BF4R/L-35105-C45X-R10**	●	●	●	●	●
			17.5	20	18.5	0.70	3.15	1.60	0.10	42	**BF4R/L-35175-C45X-R10**	●	●	●	●	●

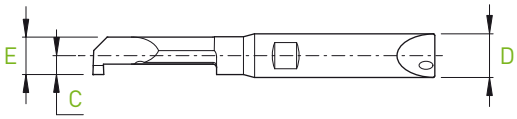
D h5	Holder	Ø min	L1	L2 BH6... BHY6...	L2 BHS6... BHK6...	T	E	C	R	L3	Art. N°	ZTAF	ZTAXF	ZN	ZTAF	ZN
6	BH6... BHS6... BHY6... BHK6...	4.0	12.0	20	18.5	0.80	3.80	2.30	0.15	47	**BF6R/L-40120-C45X-R15**	●	●	●	●	●
			20.0	30	28.5	0.80	3.80	2.30	0.15	57	**BF6R/L-40200-C45X-R15**	●	●	●	●	●
		4.5	13.5	20	18.5	0.90	4.28	2.40	0.15	47	**BF6R/L-45135-C45X-R15**	●	●	●	●	●
			22.5	30	28.5	0.90	4.28	2.40	0.15	57	**BF6R/L-45225-C45X-R15**	●	●	●	●	●
		5.0	15.0	20	18.5	1.00	4.75	2.50	0.15	47	**BF6R/L-50150-C45X-R15**	●	●	●	●	●
			25.0	30	28.5	1.00	4.75	2.50	0.15	57	**BF6R/L-50250-C45X-R15**	●	●	●	●	●
		5.5	16.5	20	18.5	1.10	5.15	2.60	0.15	47	**BF6R/L-55165-C45X-R15**	●	●	●	●	●
			27.5	30	28.5	1.10	5.15	2.60	0.15	57	**BF6R/L-55275-C45X-R15**	●	●	●	●	●





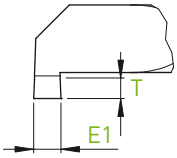


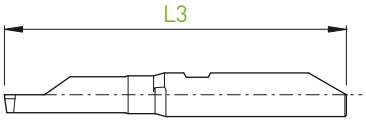


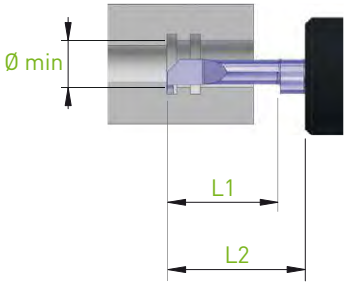


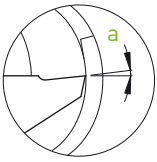
D h5	Holder	Ø min	L1	L2 BH4... BHY4...	L2 BHS4... BHK4...	E1	T	E	C	L3	Art. N°	R ZTAF	R ZTAXF	R ZN	L ZTAF	L ZN
4	BH4... BHS4... BHY4... BHK4...	3.0	9.0	15	13.5	0.50	0.60	2.70	1.45	37	BB4R/L-3090-G050X	●	●	●	●	●
			15.0	20	18.5	0.50	0.60	2.70	1.45	42	BB4R/L-30150-G050X	●	●	●	●	●
		3.5	10.5	15	13.5	0.75	0.70	3.15	1.60	37	BB4R/L-35105-G075X	●	●	●	●	●
			17.5	20	18.5	0.75	0.70	3.15	1.60	42	BB4R/L-35175-G075X	●	●	●	●	●

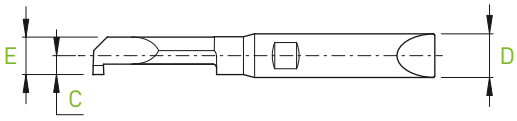
D h5	Holder	Ø min	L1	L2 BH6... BHY6...	L2 BHS6... BHK6...	E1	T	E	C	L3	Art. N°	ZTAF	ZTAXF	ZN	ZTAF	ZN
6	BH6... BHS6... BHY6... BHK6...	4.0	12.0	20	18.5	1.00	0.80	3.80	2.20	47	BB6R/L-40120-G100X	●	●	●	●	●
			20.0	30	28.5	1.00	0.80	3.80	2.20	57	BB6R/L-40200-G100X	●	●	●	●	●
		4.5	13.5	20	18.5	1.00	0.90	4.28	2.40	47	BB6R/L-45135-G100X	●	●	●	●	●
						1.50					BB6R/L-45135-G150X	●	●	●	●	●
			22.5	30	28.5	1.00	0.90	4.28	2.40	57	BB6R/L-45225-G100X	●	●	●	●	●
						1.50					BB6R/L-45225-G150X	●	●	●	●	●
		5.0	15.0	20	18.5	1.00	1.00	4.75	2.50	47	BB6R/L-50150-G100X	●	●	●	●	●
						1.50					BB6R/L-50150-G150X	●	●	●	●	●
			25.0	30	28.5	1.00	1.00	4.75	2.50	57	BB6R/L-50250-G100X	●	●	●	●	●
						1.50					BB6R/L-50250-G150X	●	●	●	●	●
		5.5	16.5	20	18.5	1.00	1.10	5.15	2.60	47	BB6R/L-55165-G100X	●	●	●	●	●
						1.50					BB6R/L-55165-G150X	●	●	●	●	●
						2.00					BB6R/L-55165-G200X	●	●	●	●	●
			27.5	30	28.5	1.00	1.10	5.15	2.60	57	BB6R/L-55275-G100X	●	●	●	●	●
						1.50					BB6R/L-55275-G150X	●	●	●	●	●
						2.00					BB6R/L-55275-G200X	●	●	●	●	●











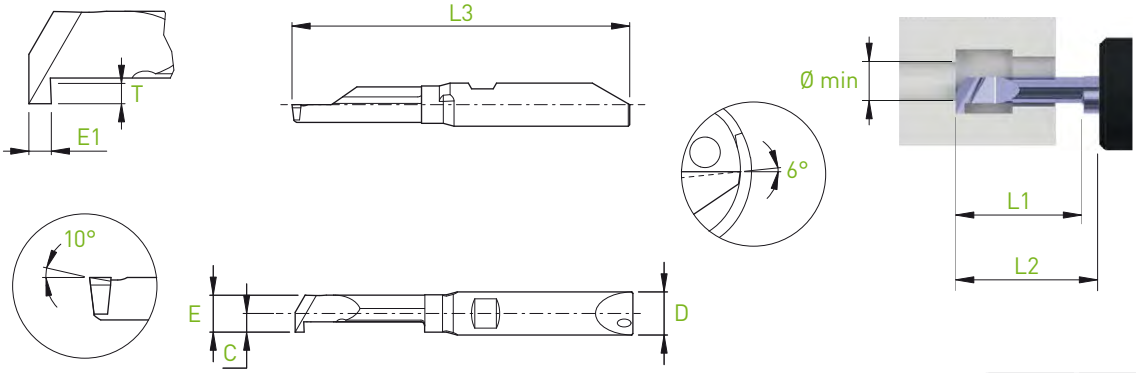
													R			L	
													P M N S	P M S	P N S	P M N S	P N S
D h5	Holder	Ø min	L1	L2 BH4... BHY4...	L2 BHS4... BHK4...	E1	T	E	a	C	L3	Art. N°	ZTAF	ZTAXF	ZN	ZTAF	ZN
4	BH4... BHS4... BHY4... BHK4...	0.5	1.0	10	8.5	0.15	0.10	0.45	3°	0.25	32	BF4R/L-0510-G015X	●	●	●	●	●
		0.7	1.4	10	8.5	0.20	0.14	0.63		0.35	32	BF4R/L-0714-G020X	●	●	●	●	●
		1.0	2.0	10	8.5	0.30	0.20	0.90		0.60	32	BF4R/L-1020-G030X	●	●	●	●	●
		1.5	3.0	10	8.5	0.40	0.30	1.35	6°	0.80	32	BF4R/L-1530-G040X	●	●	●	●	●
		2.0	6.0	10	8.5	0.40	0.40	1.80		1.15	32	BF4R/L-2060-G040X	●	●	●	●	●
		2.5	7.5	10	8.5	0.50	0.50	2.25		1.15	32	BF4R/L-2575-G050X	●	●	●	●	●
		3.0	9.0	15	13.5	0.50	0.60	2.70		1.45	37	BF4R/L-3090-G050X	●	●	●	●	●
			15.0	20	18.5	0.50	0.60	2.70		1.45	42	BF4R/L-30150-G050X	●	●	●	●	●
		3.5	10.5	15	13.5	0.75	0.70	3.15		1.60	37	BF4R/L-35105-G075X	●	●	●	●	●
			17.5	20	18.5	0.75	0.70	3.15		1.60	42	BF4R/L-35175-G075X	●	●	●	●	●

D h5	Holder	Ø min	L1	L2 BH6... BHY6...	L2 BHS6... BHK6...	E1	T	E	a	C	L3	Art. N°	ZTAF	ZTAXF	ZN	ZTAF	ZN
6	BH6... BHS6... BHY6... BHK6...	4.0	12.0	20	18.5	1.00	0.80	3.80	6°	2.20	47	BF6R/L-40120-G100X	●	●	●	●	●
			20.0	30	28.5	1.00	0.80	3.80		2.20	57	BF6R/L-40200-G100X	●	●	●	●	●
		4.5	13.5	20	18.5	1.00	0.90	4.28		2.40	47	BF6R/L-45135-G100X	●	●	●	●	●
						1.50						BF6R/L-45135-G150X	●	●	●	●	●
			22.5	30	28.5	1.00	0.90	4.28		2.40	57	BF6R/L-45225-G100X	●	●	●	●	●
						1.50						BF6R/L-45225-G150X	●	●	●	●	●
		5.0	15.0	20	18.5	1.00	1.00	4.75		2.50	47	BF6R/L-50150-G100X	●	●	●	●	●
						1.50						BF6R/L-50150-G150X	●	●	●	●	●
			25.0	30	28.5	1.00	1.00	4.75		2.50	57	BF6R/L-50250-G100X	●	●	●	●	●
						1.50						BF6R/L-50250-G150X	●	●	●	●	●
		5.5	16.5	20	18.5	1.00	1.10	5.15		2.60	47	BF6R/L-55165-G100X	●	●	●	●	●
						1.50						BF6R/L-55165-G150X	●	●	●	●	●
						2.00						BF6R/L-55165-G200X	●	●	●	●	●
			27.5	30	28.5	1.00	1.10	5.15		2.60	57	BF6R/L-55275-G100X	●	●	●	●	●
						1.50						BF6R/L-55275-G150X	●	●	●	●	●
						2.00						BF6R/L-55275-G200X	●	●	●	●	●

GTX

BB4... / BB6...

Fonçage-tournage
Einstechen und drehen
Grooving and turning



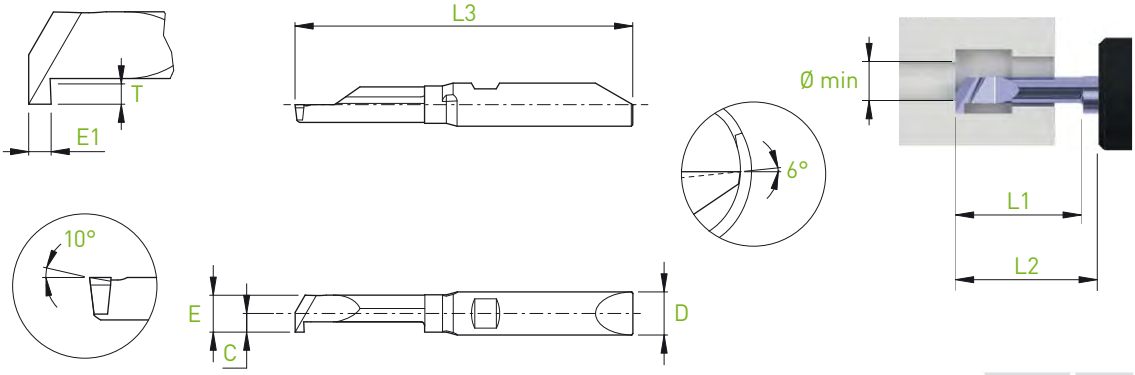
D h5	Holder	Ø min	L1	L2 BH4... BHY4...	L2 BHS4... BHK4...	E1	T	E	C	L3	Art. N°	R ZTAF	R ZTAXF	R ZN	L ZTAF	L ZN
4	BH4... BHS4... BHY4... BHK4...	3.0	9.0	15	13.5	1.00	0.60	2.7	1.45	37	BB4R/L-3090-GT100X	●	●	●	●	●
			15.0	20	18.5	1.00	0.60	2.7	1.45	42	BB4R/L-30150-GT100X	●	●	●	●	●
		3.5	10.5	15	13.5	1.00	0.70	3.15	1.6	37	BB4R/L-35105-GT100X	●	●	●	●	●
			17.5	20	18.5	1.00	0.70	3.15	1.6	42	BB4R/L-35175-GT100X	●	●	●	●	●

D h5	Holder	Ø min	L1	L2 BH6... BHY6...	L2 BHS6... BHK6...	E1	T	E	C	L3	Art. N°	R ZTAF	R ZTAXF	R ZN	L ZTAF	L ZN
6	BH6... BHS6... BHY6... BHK6...	4.0	14.0	20	18.5	1.25	0.80	3.8	2.2	47	BB6R/L-40140-GT125X	●	●	●	●	●
			22.0	30	28.5	1.25	0.80	3.8	2.2	57	BB6R/L-40220-GT125X	●	●	●	●	●
		4.5	16.0	20	18.5	1.25	0.90	4.28	2.4	47	BB6R/L-45160-GT125X	●	●	●	●	●
			25.0	30	28.5	1.25	0.90	4.28	2.4	57	BB6R/L-45250-GT125X	●	●	●	●	●
		5.0	17.5	20	18.5	1.25	1.00	4.75	2.5	47	BB6R/L-50175-GT125X	●	●	●	●	●
			27.5	30	28.5	1.25	1.00	4.75	2.5	57	BB6R/L-50275-GT125X	●	●	●	●	●
		5.5	17.5	20	18.5	1.25	1.10	5.15	2.6	47	BB6R/L-55175-GT125X	●	●	●	●	●
			27.5	30	28.5	1.25	1.10	5.15	2.6	57	BB6R/L-55275-GT125X	●	●	●	●	●

Fonçage-tournage
Einstechen und drehen
Grooving and turning

BF4... / BF6...

GTX



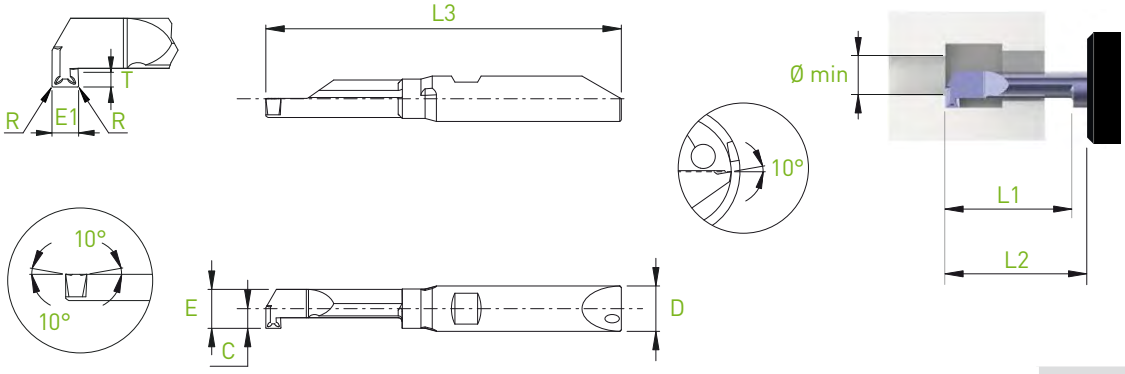
												R			L	
D h5	Holder	Ø min	L1	L2 BH4... BHY4...	L2 BHS4... BHK4...	E1	T	E	C	L3	Art. N°	ZTAF	ZTAXF	ZN	ZTAF	ZN
4	BH4... BHS4... BHY4... BHK4...	3.0	9.0	15	13.5	1.00	0.60	2.7	1.45	37	BF4R/L-3090-GT100X	●	●	●	●	●
			15.0	20	18.5	1.00	0.60	2.7	1.45	42	BF4R/L-30150-GT100X	●	●	●	●	●
		3.5	10.5	15	13.5	1.00	0.70	3.15	1.6	37	BF4R/L-35105-GT100X	●	●	●	●	●
			17.5	20	18.5	1.00	0.70	3.15	1.6	42	BF4R/L-35175-GT100X	●	●	●	●	●

D h5	Holder	Ø min	L1	L2 BH6... BHY6...	L2 BHS6... BHK6...	E1	T	E	C	L3	Art. N°	ZTAF	ZTAXF	ZN	ZTAF	ZN
6	BH6... BHS6... BHY6... BHK6...	4.0	14.0	20	18.5	1.25	0.80	3.8	2.2	47	BF6R/L-40140-GT125X	●	●	●	●	●
			22.0	30	28.5	1.25	0.80	3.8	2.2	57	BF6R/L-40220-GT125X	●	●	●	●	●
		4.5	16.0	20	18.5	1.25	0.90	4.28	2.4	47	BF6R/L-45160-GT125X	●	●	●	●	●
			25.0	30	28.5	1.25	0.90	4.28	2.4	57	BF6R/L-45250-GT125X	●	●	●	●	●
		5.0	17.5	20	18.5	1.25	1.00	4.75	2.5	47	BF6R/L-50175-GT125X	●	●	●	●	●
			27.5	30	28.5	1.25	1.00	4.75	2.5	57	BF6R/L-50275-GT125X	●	●	●	●	●
		5.5	17.5	20	18.5	1.25	1.10	5.15	2.6	47	BF6R/L-55175-GT125X	●	●	●	●	●
			27.5	30	28.5	1.25	1.10	5.15	2.6	57	BF6R/L-55275-GT125X	●	●	●	●	●

GT-ZFX

BB6...

Fonçage-tournage
Einstechen und drehen
Grooving and turning



R

D	Holder	Ø min	L1	L2 BH6... BHY6...	L2 BHS6... BHK6...	E1	T	E	C	R	L3	Art. N°	ZTAF	ZTAXF	ZN
6	BH6... BHS6... BHY6... BHK6...	4.0	14.0	20	18.5	1.25	0.80	3.8	2.2	0.08	47	BB6R-40140-GT125ZFX-R08	●	●	●
			22.0	30	28.5	1.25	0.80	3.8	2.2	0.08	57	BB6R-40220-GT125ZFX-R08	●	●	●
		4.5	16.0	20	18.5	1.25	0.90	4.28	2.4	0.08	47	BB6R-45160-GT125ZFX-R08	●	●	●
			25.0	30	28.5	1.25	0.90	4.28	2.4	0.08	57	BB6R-45250-GT125ZFX-R08	●	●	●
		5.0	17.5	20	18.5	1.25	1.00	4.75	2.5	0.08	47	BB6R-50175-GT125ZFX-R08	●	●	●
			17.5	20	18.5	2.00	1.00	4.75	2.5	0.08	47	BB6R-50175-GT200ZFX-R08	●	●	●
			27.5	30	28.5	1.25	1.00	4.75	2.5	0.08	57	BB6R-50275-GT125ZFX-R08	●	●	●
			27.5	30	28.5	2.00	1.00	4.75	2.5	0.08	57	BB6R-50275-GT200ZFX-R08	●	●	●
		5.5	17.5	20	18.5	1.25	1.10	5.15	2.6	0.08	47	BB6R-55175-GT125ZFX-R08	●	●	●
			17.5	20	18.5	2.00	1.10	5.15	2.6	0.08	47	BB6R-55175-GT200ZFX-R08	●	●	●
			27.5	30	28.5	1.25	1.10	5.15	2.6	0.08	57	BB6R-55275-GT125ZFX-R08	●	●	●
			27.5	30	28.5	2.00	1.10	5.15	2.6	0.08	57	BB6R-55275-GT200ZFX-R08	●	●	●

GT-ZFX

Géométrie de coupe innovante avec brise copeaux de dernière génération
Innovative Schneidgeometrie mit Spanbrecher der neuesten Generation
Innovative cutting geometry with next-generation chip breaker

Laser geometry

Très bonne maîtrise du copeau pour matières difficiles

Sehr gute Spankontrolle für schwierige Werkstoffe

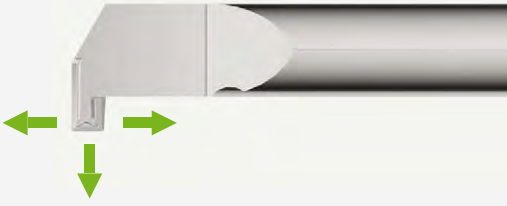
Very efficient chip control for difficult materials

Three-directional

Géométrie tri-directionnelle permettant un usinage optimal aussi bien en fonçage qu'en tournage, avant et arrière

Drei-direktionale Geometrie für eine optimale Bearbeitung sowohl im Senken als auch im Drehen, vorwärts und rückwärts

Three-directional geometry enabling optimal machining in both plunging and turning, forward and reverse



Sharp cutting edge

L'arête de coupe vive assure une finition de haute qualité, réduisant l'effort et l'usure des outils

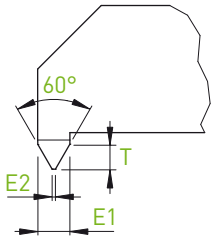
Die scharfe Schneidkante sorgt für eine hochwertige Oberflächengüte und verringert sowohl die Schnittkräfte als auch den Werkzeugverschleiss

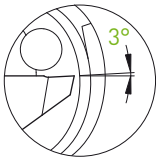
The sharp cutting edge ensures a high-quality finish while reducing cutting forces and tool wear

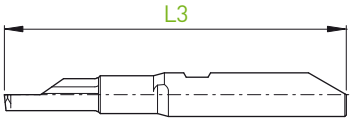
TP60

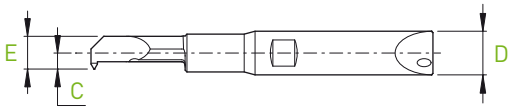
BB4... / BB6...

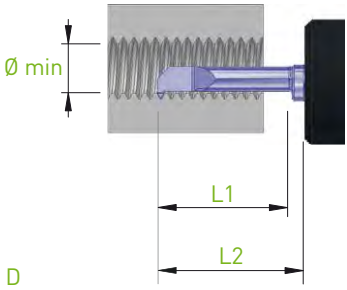
Filetage
Gewindedrehen
Threading











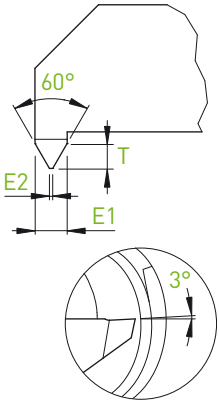
															R		L	
D h5	Holder	Ø min	L1	L2 BH4... BHY4...	L2 BHS4... BHK4...	P (mm)	P (TPI)	E1	E2 (0/-0.01)	T	E	C	L3	Art. N°	P M N S ZTAF	P N S ZN	P M N S ZTAF	P N S ZN
4	BH4... BHS4... BHY4... BHK4...	1.25	3.2	10	8.5	0.20-0.35	80	0.30	0.02	0.25	1.10	0.80	32	**BB4R/L-1232-TP60**	●	●	●	●
		1.6	4.0	10	8.5	0.25-0.40	72-64	0.35	0.03	0.28	1.41	0.90	32	**BB4R/L-1640-TP60**	●	●	●	●
		2.5	6.0	10	8.5	0.35-0.50	56-48	0.44	0.04	0.34	2.25	1.35	32	**BB4R/L-2560-TP60**	●	●	●	●
			9.0	15	13.5	0.35-0.50	56-48	0.44	0.04	0.34	2.25	1.35	37	**BB4R/L-2590-TP60**	●	●	●	●
		3.3	8.0	15	13.5	0.50-0.75	40-36	0.62	0.06	0.48	2.97	1.50	37	**BB4R/L-3380-TP60**	●	●	●	●
			12.0	15	13.5	0.50-0.75	40-36	0.62	0.06	0.48	2.97	1.50	37	**BB4R/L-33120-TP60**	●	●	●	●

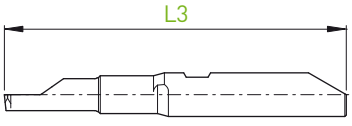
D h5	Holder	Ø min	L1	L2 BH6... BHY6...	L2 BHS6... BHK6...	P (mm)	P (TPI)	E1	E2 (0/-0.01)	T	E	C	L3	Art. N°	ZTAF	ZN	ZTAF	ZN
6	BH6... BHS6... BHY6... BHK6...	4.2	10.0	20	18.5	0.50-0.80	36-32	0.70	0.06	0.55	3.78	2.10	47	**BB6R/L-42100-TP60**	●	●	●	●
			15.0	20	18.5	0.50-0.80	36-32	0.70	0.06	0.55	3.78	2.10	47	**BB6R/L-42150-TP60**	●	●	●	●
		5.0	12.0	20	18.5	0.75-1.00	28-24	0.89	0.09	0.69	4.50	2.20	47	**BB6R/L-50120-TP60**	●	●	●	●
			18.0	20	18.5	0.75-1.00	28-24	0.89	0.09	0.69	4.50	2.20	47	**BB6R/L-50180-TP60**	●	●	●	●

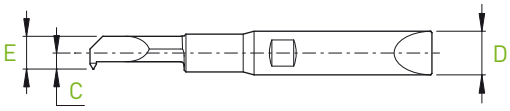
Filetage
Gewindedrehen
Threading

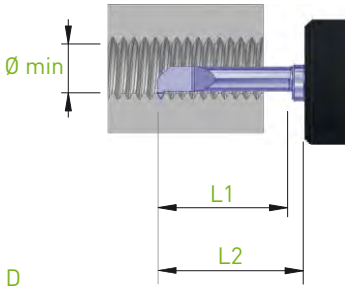
BF4... / BF6...

TP60









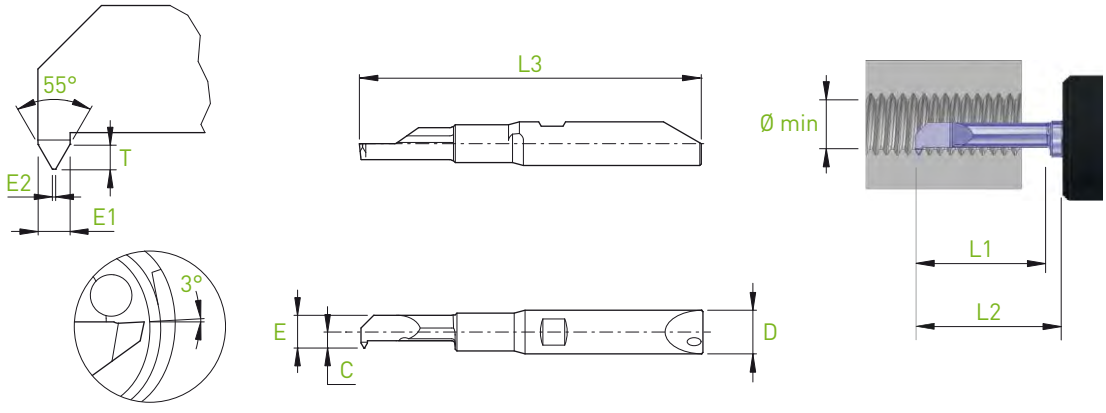
															R		L	
D h5	Holder	Ø min	L1	**L2** BH4... BHY4...	**L2** BHS4... BHK4...	P (mm)	P (TPI)	E1	E2 (0/-0.01)	T	E	C	L3	**Art. N°**	P M N S ZTAF	P N S ZN	P M N S ZTAF	P N S ZN
4	BH4... BHS4... BHY4... BHK4...	1.25	3.2	10	8.5	0.20-0.35	80	0.30	0.02	0.25	1.10	0.80	32	**BF4R**/L-**1232-TP60**	●	●	●	●
		1.6	4.0	10	8.5	0.25-0.40	72-64	0.35	0.03	0.28	1.41	0.90	32	**BF4R**/L-**1640-TP60**	●	●	●	●
		2.5	6.0	10	8.5	0.35-0.50	56-48	0.44	0.04	0.34	2.25	1.35	32	**BF4R**/L-**2560-TP60**	●	●	●	●
			9.0	15	13.5	0.35-0.50	56-48	0.44	0.04	0.34	2.25	1.35	37	**BF4R**/L-**2590-TP60**	●	●	●	●
		3.3	8.0	15	13.5	0.50-0.75	40-36	0.62	0.06	0.48	2.97	1.50	37	**BF4R**/L-**3380-TP60**	●	●	●	●
			12.0	15	13.5	0.50-0.75	40-36	0.62	0.06	0.48	2.97	1.50	37	**BF4R**/L-**33120-TP60**	●	●	●	●

D h5	Holder	Ø min	L1	**L2** BH6... BHY6...	**L2** BHS6... BHK6...	P (mm)	P (TPI)	E1	E2 (0/-0.01)	T	E	C	L3	**Art. N°**	ZTAF	ZN	ZTAF	ZN
6	BH6... BHS6... BHY6... BHK6...	4.2	10.0	20	18.5	0.50-0.80	36-32	0.70	0.06	0.55	3.78	2.10	47	**BF6R**/L-**42100-TP60**	●	●	●	●
			15.0	20	18.5	0.50-0.80	36-32	0.70	0.06	0.55	3.78	2.10	47	**BF6R**/L-**42150-TP60**	●	●	●	●
		5.0	12.0	20	18.5	0.75-1.00	28-24	0.89	0.09	0.69	4.50	2.20	47	**BF6R**/L-**50120-TP60**	●	●	●	●
			18.0	20	18.5	0.75-1.00	28-24	0.89	0.09	0.69	4.50	2.20	47	**BF6R**/L-**50180-TP60**	●	●	●	●

TP55

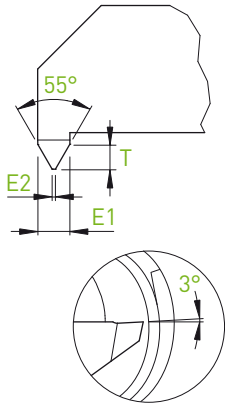
BB4... / BB6...

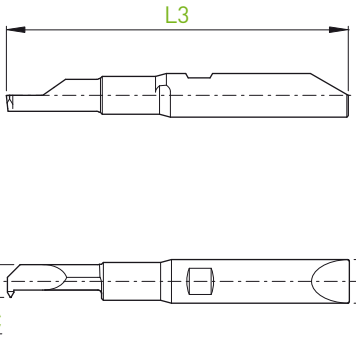
Filetage
Gewindedrehen
Threading

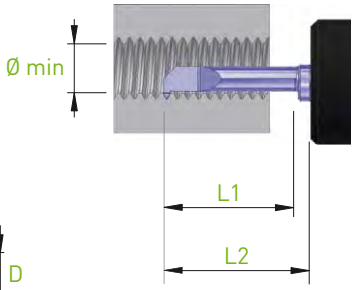


														R		L	
D h5	Holder	Ø min	L1	L2 BH4... BHY4...	L2 BHS4... BHK4...	P (TPI)	E1	E2 (0/-0.02)	T	E	C	L3	Art. N°	P M N S ZTAF	P N S ZN	P M N S ZTAF	P N S ZN
4	BH4... BHS4... BHY4... BHK4...	1.85	4.5	10	8.5	48	0.54	0.09	0.44	1.67	0.97	32	**BB4R**/L-1845-TP55	●	●	●	●
		2.55	6.0	10	8.5	40	0.64	0.10	0.52	2.25	1.35	32	**BB4R**/L-2560-TP55	●	●	●	●

D h5	Holder	Ø min	L1	L2 BH6... BHY6...	L2 BHS6... BHK6...	P (TPI)	E1	E2 (0/-0.02)	T	E	C	L3	Art. N°	ZTAF	ZN	ZTAF	ZN
6	BH6... BHS6... BHY6... BHK6...	3.70	11.0	20	18.5	32-24	1.08	0.13	0.91	3.33	1.83	47	**BB6R**/L-37110-TP55	●	●	●	●
		5.10	15.0	20	18.5	26-20	1.30	0.16	1.09	4.60	2.05	47	**BB6R**/L-51150-TP55	●	●	●	●
		5.50	16.0	20	18.5	22-16	1.48	0.19	1.24	5.15	2.60	47	**BB6R**/L-55160-TP55	●	●	●	●







														R		L	
D h5	Holder	Ø min	L1	**L2** BH4... BHY4...	**L2** BHS4... BHK4...	P (TPI)	E1	E2 (0/-0.02)	T	E	C	L3	**Art. N°**	ZTAF	ZN	ZTAF	ZN
4	BH4... BHS4... BHY4... BHK4...	1.85	4.5	10	8.5	48	0.54	0.09	0.44	1.67	0.97	32	**BF4R/L-1845-TP55**	●	●	●	●
		2.55	6.0	10	8.5	40	0.64	0.10	0.52	2.25	1.35	32	**BF4R/L-2560-TP55**	●	●	●	●

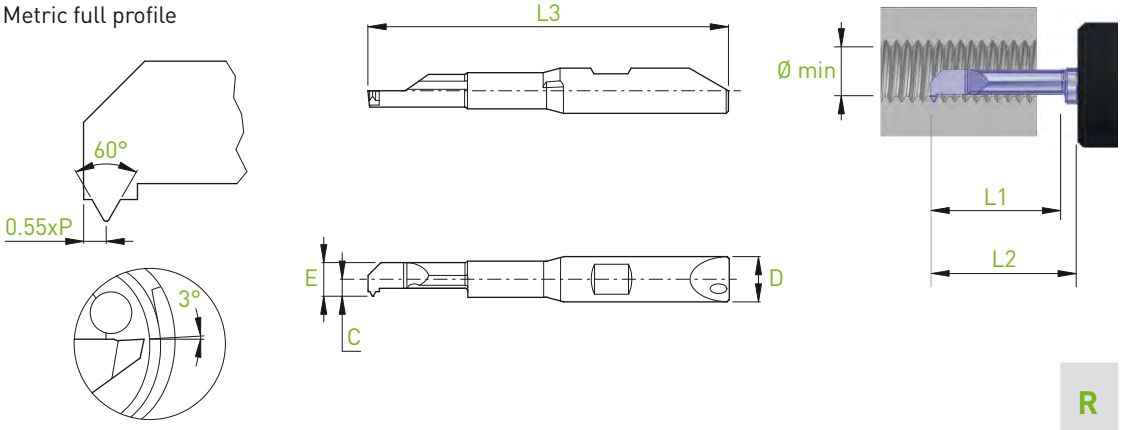
D h5	Holder	Ø min	L1	**L2** BH6... BHY6...	**L2** BHS6... BHK6...	P (TPI)	E1	E2 (0/-0.02)	T	E	C	L3	**Art. N°**	ZTAF	ZN	ZTAF	ZN
6	BH6... BHS6... BHY6... BHK6...	3.70	11.0	20	18.5	32-24	1.08	0.13	0.91	3.33	1.83	47	**BF6R/L-37110-TP55**	●	●	●	●
		5.10	15.0	20	18.5	26-20	1.30	0.16	1.09	4.60	2.05	47	**BF6R/L-51150-TP55**	●	●	●	●
		5.50	16.0	20	18.5	22-16	1.48	0.19	1.24	5.15	2.60	47	**BF6R/L-55160-TP55**	●	●	●	●

TM

BB4... / BB6...

Filetage
Gewindedrehen
Threading

Profil complet métrique
Metrisches Vollprofil
Metric full profile

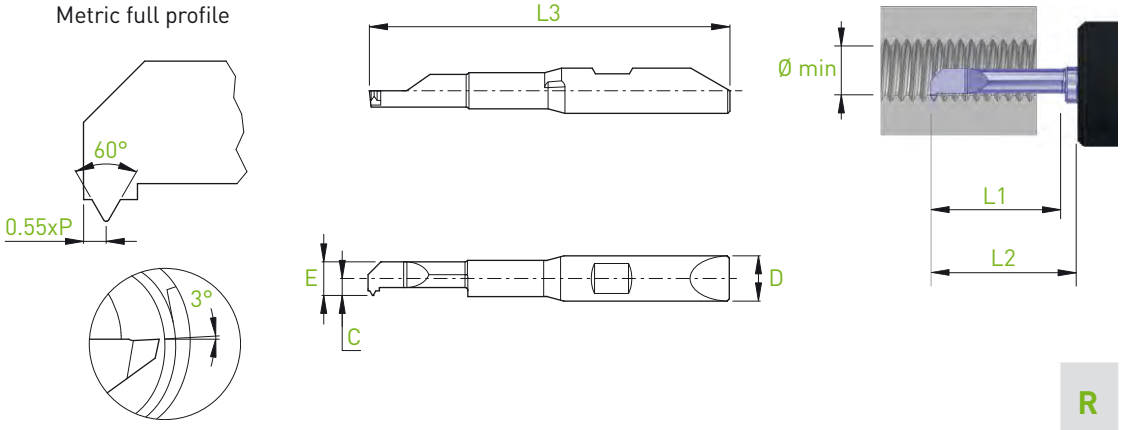


R

D h5	Holder	M (min)	Ø min	P (mm)	L1	L2 BH4... BHY4...	L2 BHS4... BHK4...	E	C	L3	Art. N°	ZTAF	ZN
4	BH4... BHS4... BHY4... BHK4...	M3x0.5	2.50	0.50	6.0	10	8.5	2.25	1.35	32	**BB4R-2560-TM-0.50**	●	●
		M4x0.7	3.30	0.70	8.0	15	13.5	2.97	1.50	37	**BB4R-3380-TM-0.70**	●	●

D h5	Holder	M (min)	Ø min	P (mm)	L1	L2 BH6... BHY6...	L2 BHS6... BHK6...	E	C	L3	Art. N°	ZTAF	ZN
6	BH6... BHS6... BHY6... BHK6...	M5x0.8	4.20	0.80	10.0	20	18.5	3.78	2.10	47	**BB6R-42100-TM-0.80**	●	●
		M6x1.0	5.00	1.00	12.0	20	18.5	4.50	2.20	47	**BB6R-50120-TM-1.00**	●	●

Profil complet métrique
Metrisches Vollprofil
Metric full profile



R

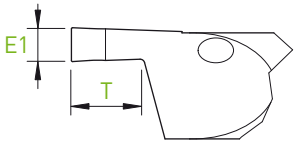
D h5	Holder	M (min)	Ø min	P (mm)	L1	L2 BH4... BHY4...	L2 BHS4... BHK4...	E	C	L3	Art. N°	ZTAF	ZN
4	BH4... BHS4... BHY4... BHK4...	M3x0.5	2.50	0.50	6.0	10	8.5	2.25	1.35	32	**BF4R-2560-TM-0.50**	●	●
		M4x0.7	3.30	0.70	8.0	15	13.5	2.97	1.50	37	**BF4R-3380-TM-0.70**	●	●

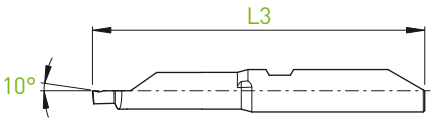
D h5	Holder	M (min)	Ø min	P (mm)	L1	L2 BH6... BHY6...	L2 BHS6... BHK6...	E	C	L3	Art. N°	ZTAF	ZN
6	BH6... BHS6... BHY6... BHK6...	M5x0.8	4.20	0.80	10.0	20	18.5	3.78	2.10	47	**BF6R-42100-TM-0.80**	●	●
		M6x1.0	5.00	1.00	12.0	20	18.5	4.50	2.20	47	**BF6R-50120-TM-1.00**	●	●

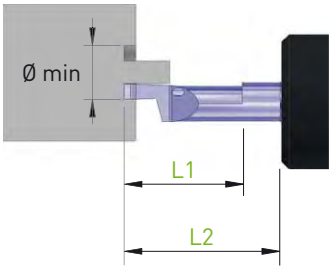
FEG

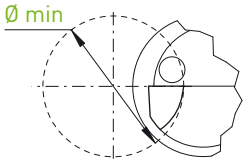
BB6...

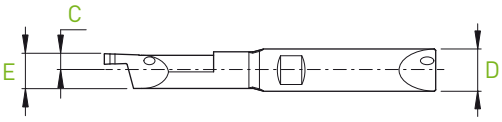
Gorge frontale extérieure
Aussen axiales stechen
External axial grooving











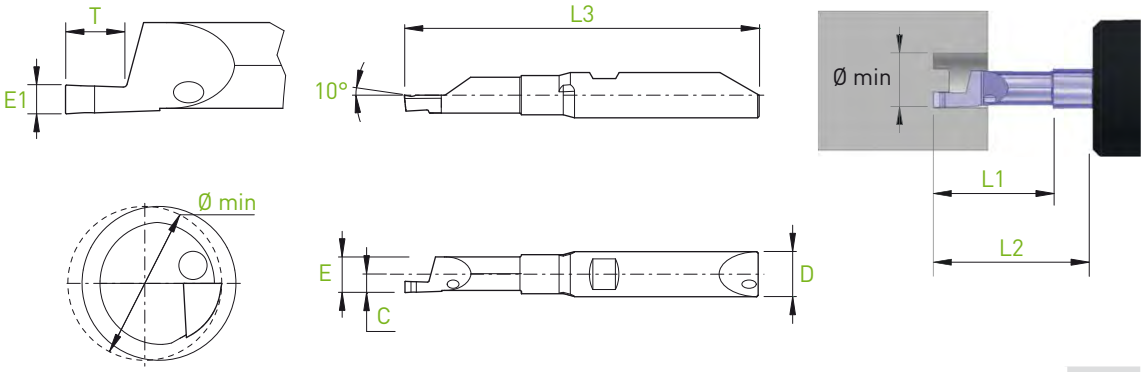
R

D h5	Holder	Ø min	L1	**L2** BH6... BHY6...	**L2** BHS6... BHK6...	T	E	C	E1	L3	**Art. N°**	P M N S ZTAF	P N S ZN
6	BH6... BHS6... BHY6... BHK6...	5.0	15.0	20	18.5	3.00	4.90	2.30	1.50	47	**BB6R-50150-FEG150X**	●	●

Gorge frontale intérieure
Innen axiales stechen
Internal axial grooving

BB6...

FIG



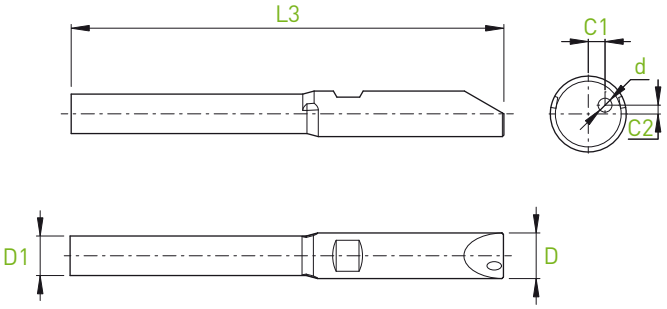
R

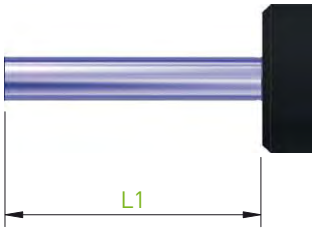
D h5	Holder	Ø min	L1	**L2** BH6... BHY6...	**L2** BHS6... BHK6...	T	E	C	E1	L3	**Art. N°**	P M N S ZTAF	P N S ZN
6	BH6... BHS6... BHY6... BHK6...	5.0	15.0	20	18.5	3.00	4.75	2.45	1.50	47	**BB6R-50150-FIG150X**	●	●

BB_E

BB4... / BB6...

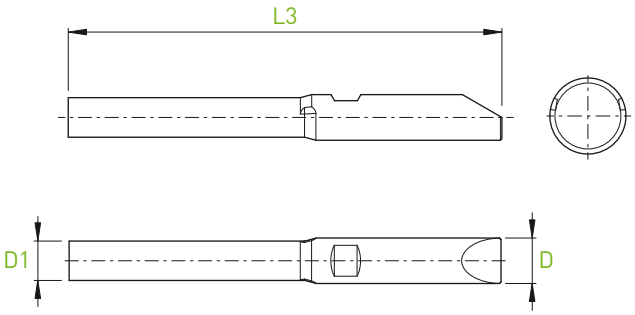
Ébauches avec arrosage
Rohlinge mit Kühlung
Blanks with coolant

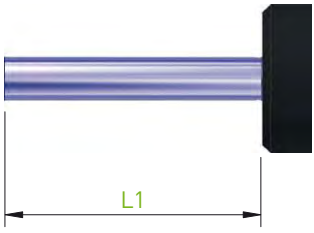




D h5	Holder	**L1** BH4... BHY4...	**L1** BHS4... BHK4...	D1	C1	C2	d	L3	**Art. N°**	ZN
4	BH4... BHS4... BHY4... BHK4...	20.0	18.5	3.20	0.84	0.55	0.85	42	**BB4R-E42**	●

D h5	Holder	**L1** BH6... BHY6...	**L1** BHS6... BHK6...	D1	C1	C2	d	L3	**Art. N°**	ZN
6	BH6... BHS6... BHY6... BHK6...	30.0	28.5	5.20	1.33	0.70	1.10	57	**BB6R-E57**	●





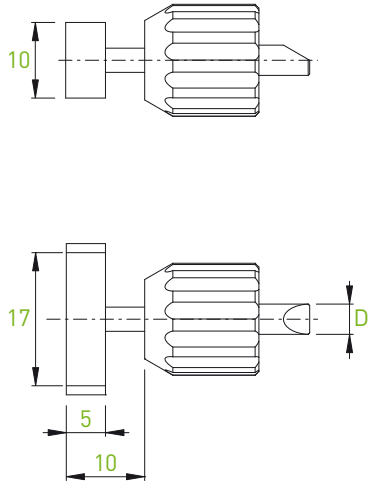
D h5	Holder	**L1** BH4... BHY4...	**L1** BHS4... BHK4...	D1	L3	**Art. N°**	ZN
4	BH4... BHS4... BHY4... BHK4...	20.0	18.5	3.20	42	**BF4-E42**	●

D h5	Holder	**L1** BH6... BHY6...	**L1** BHS6... BHK6...	D1	L3	**Art. N°**	ZN
6	BH6... BHS6... BHY6... BHK6...	30.0	28.5	5.20	57	**BF6-E57**	●

BH4 / BH6

MASTER

Jauges d'alignement
Richtplatten
Adjusting tools

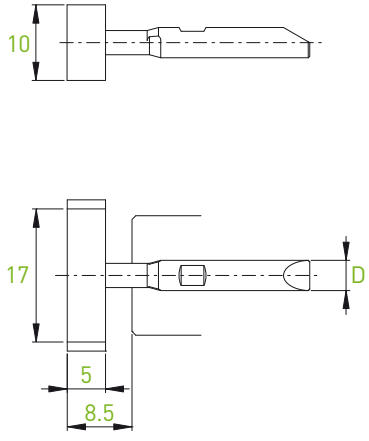


D h5	Art. N°	
4	BH4-MASTER	●
6	BH6-MASTER	●

BHSY...

MASTER

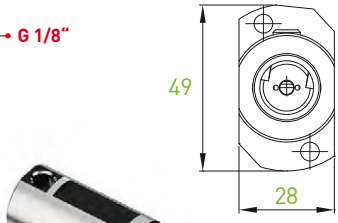
Jauges d'alignement
Richtplatten
Adjusting tools

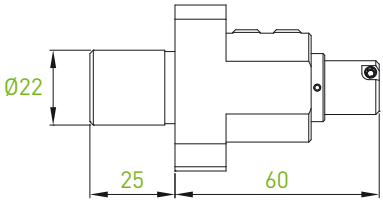


D h5	Art. N°	
4	BHSY4-MASTER	●
6	BHSY6-MASTER	●

Porte-outils avec arrosage pour contre-opération - Machines STAR
Halter mit Kühlungssystem für Gegenbearbeitung – STAR Maschinen
Backworking holders with through coolant – STAR Machines

BH4 / BH6
BHS4 / BHS6

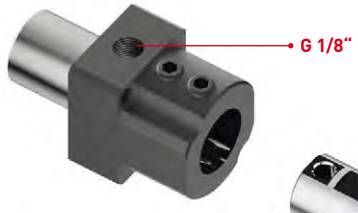


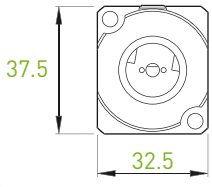


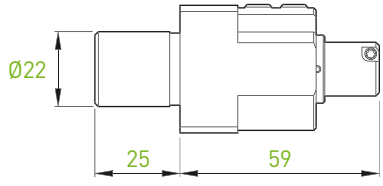
Art. N°
BWD1-2022-STAR-SRR

Art. N°
BHS4-D20-55-BWD1
BHS6-D20-55-BWD1

Types of STAR machines
SR10J (T22+T24)
SB16/20 Types C + D + E (T21-T24)
SB20R Types E + G + N (T21-T24)
SR20J / JN (T21-T24)
SR20R / II / III (T21-T24)
SR20R IV (T21-T24)
SR32J/JN (T21-T24)
SW12RII (T21-T24)
SV20R (T21-T24)
ECAS12/20 (T21-T24)
SW20 (T21-T23)







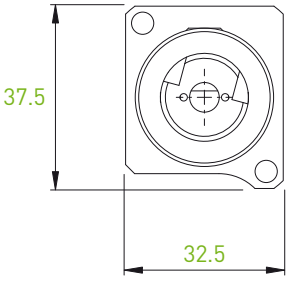
Art. N°
BWD1-2022-STAR-SW

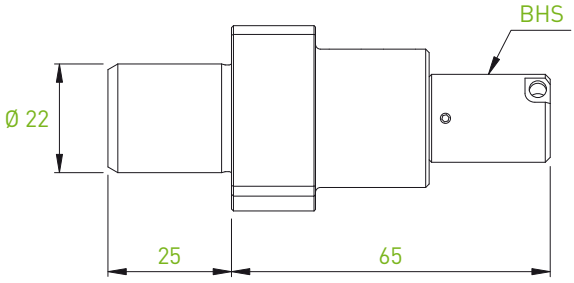
Art. N°
BHS4-D20-55-BWD1
BHS6-D20-55-BWD1

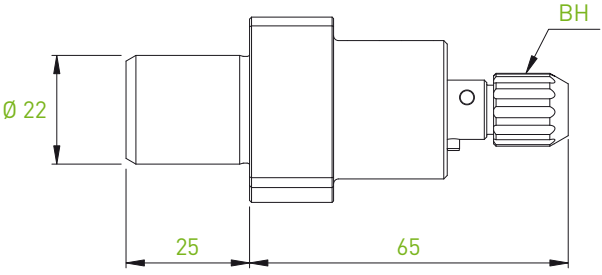
Types of STAR machines
SW12RII (T21-T28)
SW20 (T21-T23 + T25-T27)
SV20R (T21-T28)
SR-20R IV (T21-T28)
SB12/20R (T22-T24)
SR38 (T21-T28)

BH4 / BH6
BHS4 / BHS6

Porte-outils avec arrosage pour contre-opération - Machines STAR
Halter mit Kühlungssystem für Gegenbearbeitung – STAR Maschinen
Backworking holders with through coolant – STAR Machines







Art. N°
BWD1-1222-STAR-SW-B

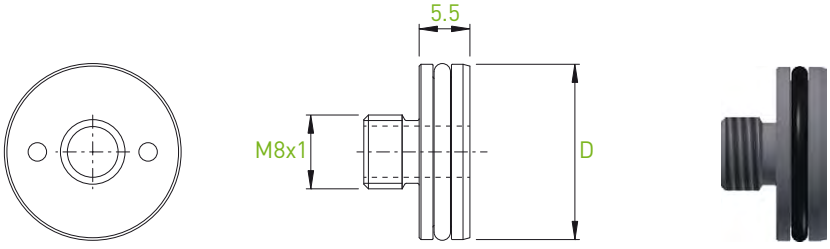
Art. N°
BHS4-D12-51-BWD1-B
BHS6-D12-51-BWD1-B

Art. N°
BH4-D12-51-BWD1-B
BH6-D12-51-BWD1-B

Types of STAR machines
SW12R II (T21-T28)
SW20 (T21-T23 + T25-T27)
SV20R (T21-T28)
SR-20R IV (T21-T28)
SB12/20R (T22-T24)
SR38 (T21-T28)

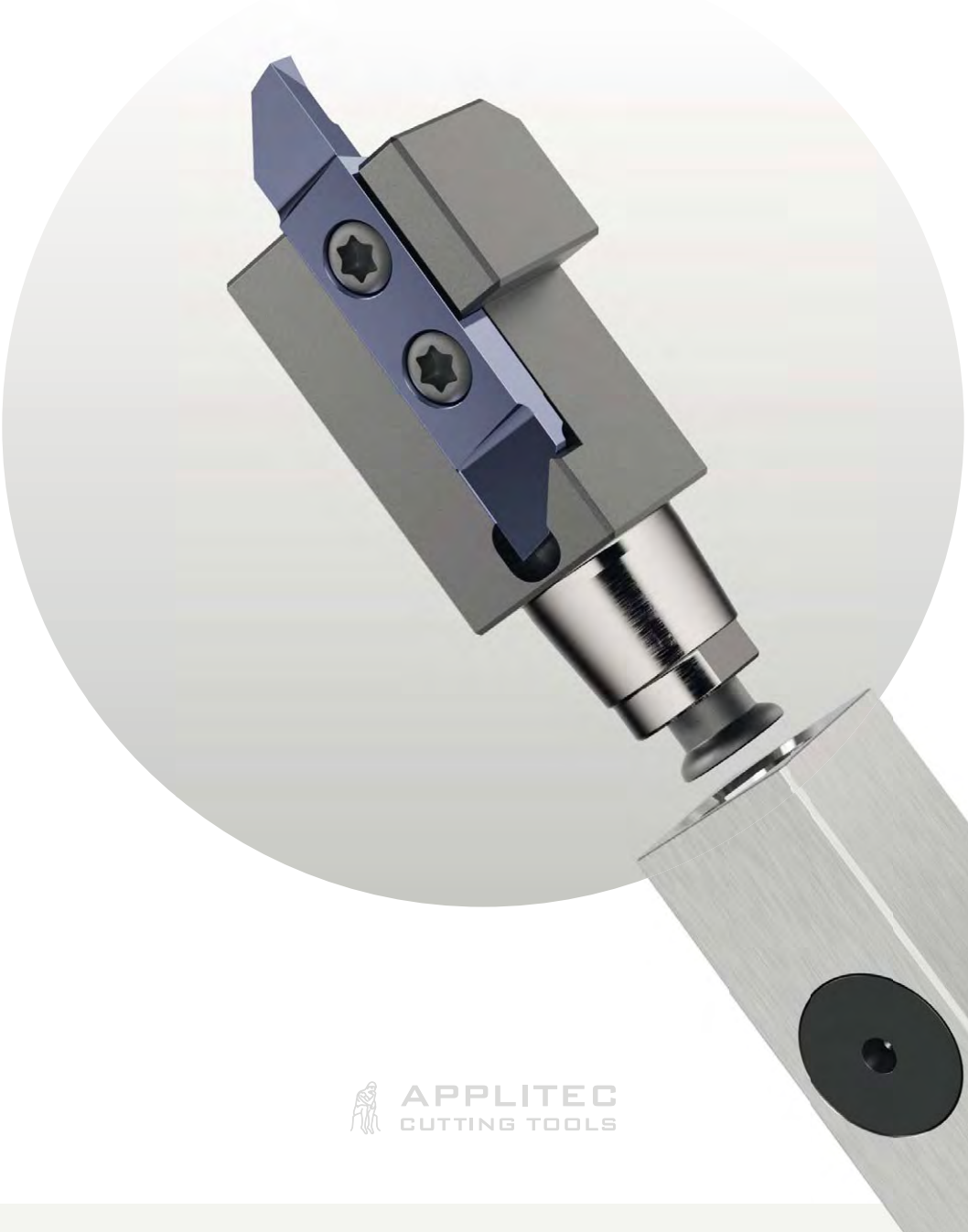
Bagues d'étanchéité
Dichtungsringe
Sealing rings

JB



D	Art. N°	
19.05	JB-M8X1-D19.05	●
20	JB-M8X1-D20	●
22	JB-M8X1-D22	●
25	JB-M8X1-D25	●
25.4	JB-M8X1-D25.4	●

SWITCH-Line



APPLITEC
CUTTING TOOLS

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Supports carrés
Viereckige Halter
Square holders > 13.07

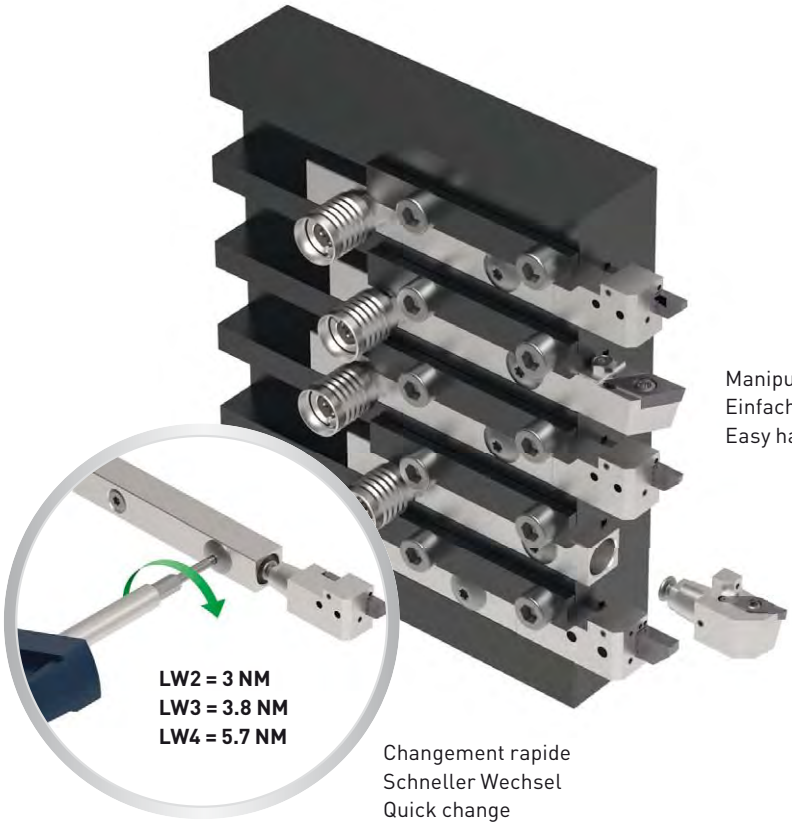
Têtes interchangeables | Wechselköpfe | Interchangeable heads

TOP-Line		LW-730-740-JET LW-750-760-JET LW-770-780-JET	> 13.08 > 13.09 > 13.10
ONE-Line		LW-130-JET LW-140-JET	> 13.11
TURN-Line	88°	LW-310-320-JET LW-310-BC/320-BC-JET	> 13.12 > 13.13
	85°	LW-330-340-JET	> 13.14
ISO-Line	80°	LW-SCL-JET LW-SCM-JET	> 13.15 > 13.16
	55°	LW-SDJ-JET LW-SDN-JET LW-SDH-JET	> 13.17 > 13.18 > 13.19
	35°	LW-SVJ-JET LW-SVV-JET	> 13.20 > 13.21

Supports cylindriques
Zylindrische Halter
Cylinder holders **LW-D** > 13.22

Têtes interchangeables porte-pince
Spannzangenwechselköpfe
Interchangeable head gripper holder **LW-E** > 13.23

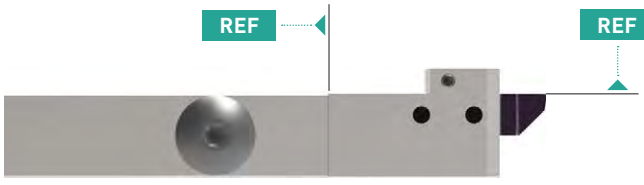
Porte-outils
Halter
Holders **HSK / PSC** > 13.24



Manipulation facilitée
Einfache Handhabung
Easy handling

Changement rapide
Schneller Wechsel
Quick change

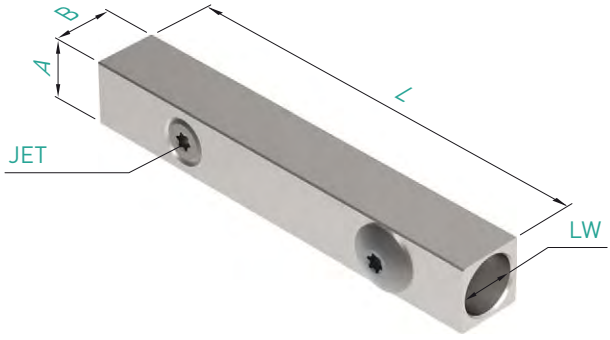
Lubrification intégrée
Integrierte Kühlung
Integrated coolant



Excellente répétitivité
Ausgezeichnete Wiederholgenauigkeit
Excellent repeatability

Désignations - Carrés
Bezeichnungen – Quadrate
Designations – Squares

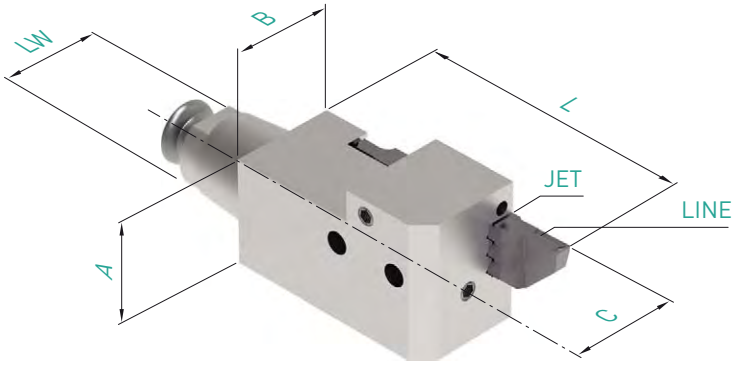
Infos et avantages
Infos und Vorteile
Infos and advantages



LW	A x B	L	JET
Interface	Section	Longueur Länge Length	Arrosage intégré Integrierte Kühlung Integrated coolant

Désignations - Têtes interchangeables
Bezeichnungen - Wechselköpfe
Designations - Interchangeable heads

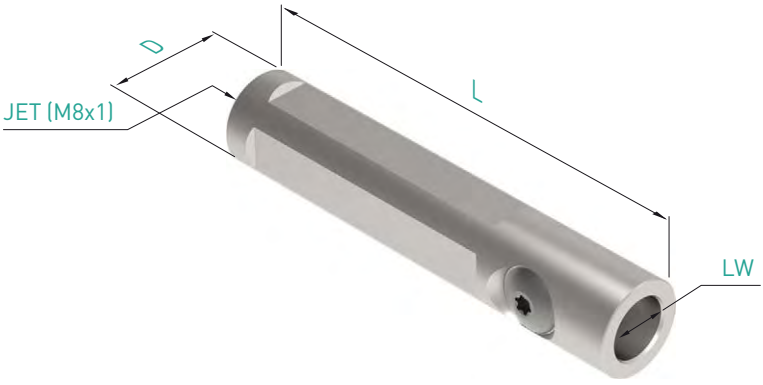
Infos et avantages
Infos und Vorteile
Infos and advantages



LW	LINE	A x B	C	L	JET
Interface	Serie	Section	Localisation axe Achselokalisation Axis location	Longueur Länge Length	Arrosage intégré Integrierte Kühlung Integrated coolant

Infos et avantages
Infos und Vorteile
Infos and advantages

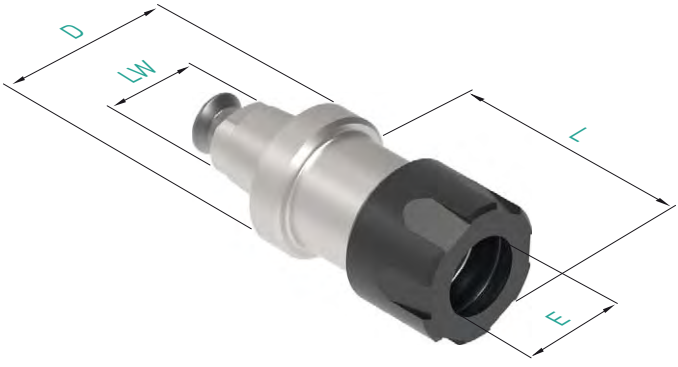
Désignations - Cylindres
Bezeichnungen - Zylinder
Designations - Cylinders



LW	D	L	JET
Interface	Ø	Longueur Länge Length	Arrosage intégré Integrierte Kühlung Integrated coolant

Infos et avantages
Infos und Vorteile
Infos and advantages

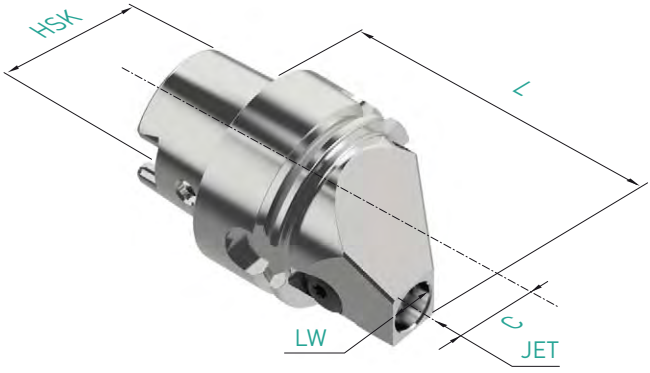
Désignations - Têtes porte-pinces
Bezeichnungen - Spannzangenköpfe
Designations - Gripper holder heads



LW	E	D	L
Interface	Pince type Spannzange Typ Gripper type	Ø	Longueur Länge Length

Désignations - HSK
Bezeichnungen - HSK
Designations - HSK

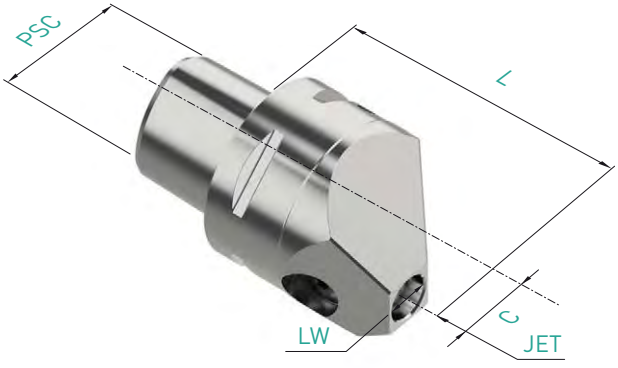
Infos et avantages
Infos und Vorteile
Infos and advantages



HSK	LW	C	L	JET	X
Machine interface	Interface tête interchangeable Wechselkopfschnittstelle Interchangeable head interface	Localisation axe Achsellokalisation Axis location LW	Longueur Länge Length	Arrosage intégré Integrierte Kühlung Integrated coolant	Spécificité fabricant machine Spezifität Maschinenhersteller Specificity machine manufacturer

Désignations - Têtes interchangeables
Bezeichnungen - Wechselköpfe
Designations - Interchangeable heads

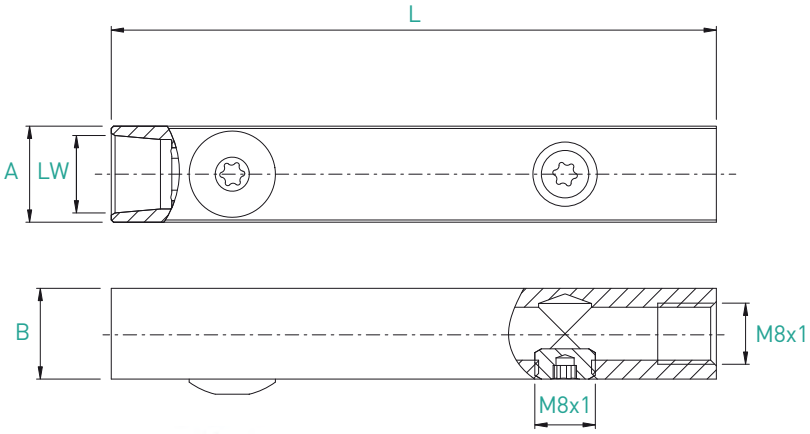
Infos et avantages
Infos und Vorteile
Infos and advantages



PSC	LW	C	L	JET	X
Machine interface	Interface tête interchangeable Wechselkopfschnittstelle Interchangeable head interface	Localisation axe Achsellokalisation Axis location LW	Longueur Länge Length	Arrosage intégré Integrierte Kühlung Integrated coolant	Spécificité fabricant machine Spezifität Maschinenhersteller Specificity machine manufacturer

Supports carrés
Viereckige Halter
Square holders

LW-JET



LW	A x B	L	Art. N°	Pièces de rechange Ersatzteile Spare parts Art. N°	Pièces de rechange Ersatzteile Spare parts Art. N°	Options Art. N°	Options Art. N°
LW2	10x10	80	**LW2-1010-80-JET**	**JB-M8X1**	**LW2-ER1.010.012**	**CD-NM3.0**	**TX15-E6.3**
LW3	12x12	80	**LW3-1212-80-JET**	**JB-M8X1**	**LW3-ER1.012.014**	**CD-NM3.8**	**TX15-E6.3**
LW3	12.7x12	80	**LW3-12.7-80-JET**				
LW4	15.87x16	80	**LW4-15.87-80-JET**	**JB-M8X1**	**LW4-ER1.014.019**	**CD-NM5.7**	**TX20-E6.3**
LW4	16x16	80	**LW4-1616-80-JET**				

Utilisation d'une clé dynamométrique recommandée
Benutzung eines Drehmomentschlüssel empfohlen
Recommended use of a torque wrench

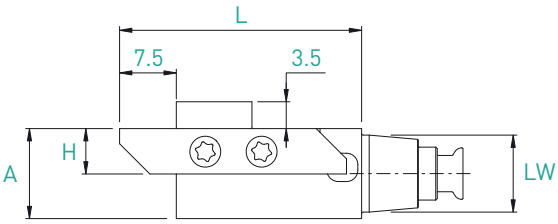
Options	Art. N°
	M8X1
	voir JET-LINE siehe JET-LINE see JET-LINE

LW-730/740-JET

TOP-Line

Têtes interchangeables
Wechselköpfe
Interchangeable heads

R



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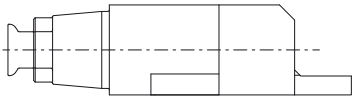
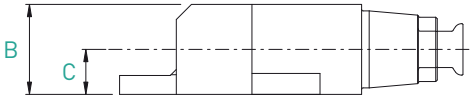
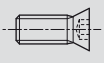
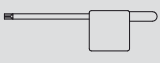
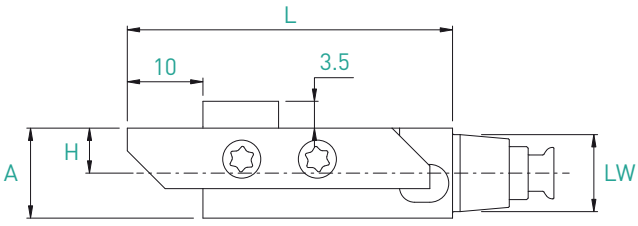




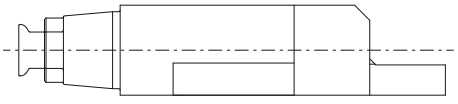
						L	R
Plaquettes WSP Inserts	LW	A x B	H	C	L	**Art. N°**	**Art. N°**
73_-74_	LW3	12x12	6	6	32	**LW3-730-12-0632-JET**	**LW3-740-12-0632-JET**
	LW4	16x16	8	8	32	**LW4-730-16-0832-JET**	**LW4-740-16-0832-JET**

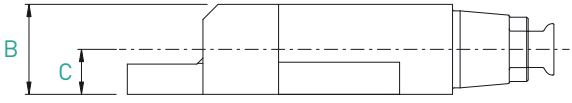
	Pièces de rechange Ersatzteile Spare parts		Options
			
LW	**Art. N°**	**Art. N°**	**Art. N°**
LW3	**V-M3X7-T8**	**LW3-U00.ER1.000**	**C-T8**
LW4		**LW4-U00.ER1.000**	

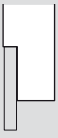
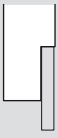
R

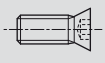
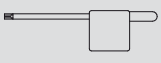


L





Plaquettes WSP Inserts	LW	A x B	H	C	L	L  Art. N°	R  Art. N°
75_-76_	LW3	12x12	6	6	43	**LW3-750-12-0643-JET**	**LW3-760-12-0643-JET**
	LW4	16x16	8	8	43	**LW4-750-16-0843-JET**	**LW4-760-16-0843-JET**

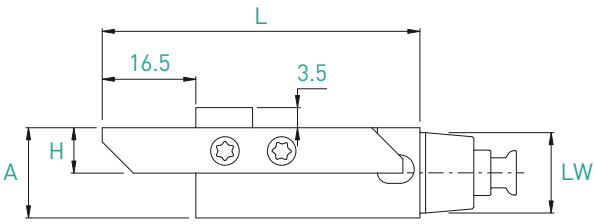
	Pièces de rechange Ersatzteile Spare parts		Options
			
LW	Art. N°	Art. N°	Art. N°
LW3	**V-M4X9-T15**	**LW3-U00.ER1.000**	**C-T15**
LW4		**LW4-U00.ER1.000**	

LW-770/780-JET

TOP-Line

Têtes interchangeables
Wechselköpfe
Interchangeable heads

R



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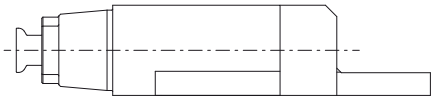
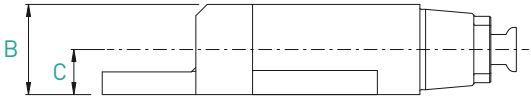
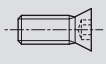
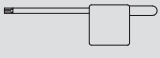
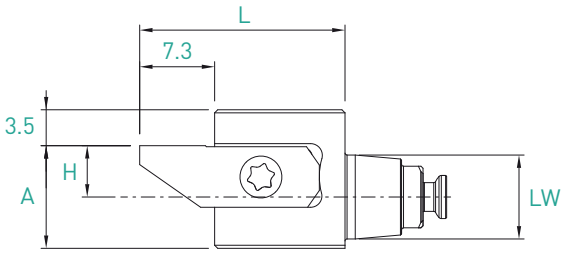




						L	R
Plaquettes WSP Inserts	LW	A x B	H	C	L	**Art. N°**	**Art. N°**
77_-78_	LW4	16x16	8	8	56	**LW4-770-16-0856-JET**	**LW4-780-16-0856-JET**

	Pièces de rechange Ersatzteile Spare parts		Options
			
LW	**Art. N°**	**Art. N°**	**Art. N°**
LW4	**V-M4X9-T15**	**LW4-U00.ER1.000**	**C-T15**

R



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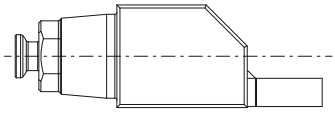
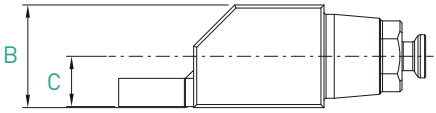
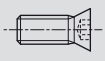




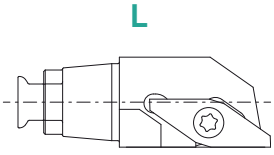
						L	R
Plaquettes WSP Inserts	LW	A x B	H	C	L	**Art. N°**	**Art. N°**
13_-14_	LW2	10x10	5	5	20	**LW2-130-10-0520-JET**	**LW2-140-10-0520-JET**

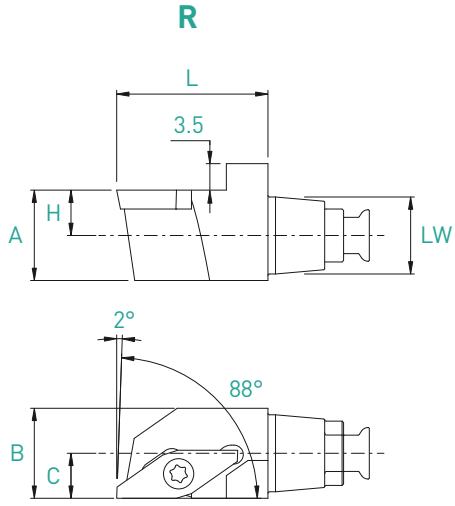
	Pièces de rechange Ersatzteile Spare parts		Options
			
LW	**Art. N°**	**Art. N°**	**Art. N°**
LW2	**V-M3X7-T8**	**LW2-U00.ER1.000**	**C-T8**

LW-310/320-JET

TURN-Line 88°

Têtes interchangeables
Wechselköpfe
Interchangeable heads

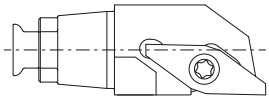




Plaquettes WSP Inserts	LW	A x B	H	C	L	L Art. N°	R Art. N°
31_-32_	LW2	10x10	5	5	20	**LW2-310-10-0520-JET**	**LW2-320-10-0520-JET**
	LW3	12x12	6	6	20	**LW3-310-12-0620-JET**	**LW3-320-12-0620-JET**
	LW4	16x16	8	8	25	**LW4-310-16-0825-JET**	**LW4-320-16-0825-JET**

	Pièces de rechange Ersatzteile Spare parts		Options
LW	**Art. N°**	**Art. N°**	**Art. N°**
LW2	**V-M2.5X7.8-T8**	**LW2-U00.ER1.000**	**C-T8**
LW3		**LW3-U00.ER1.000**	
LW4		**LW4-U00.ER1.000**	

L



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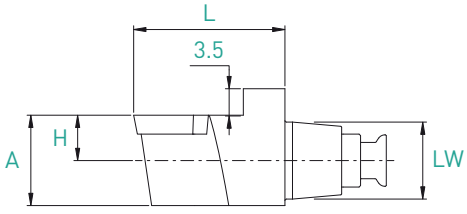
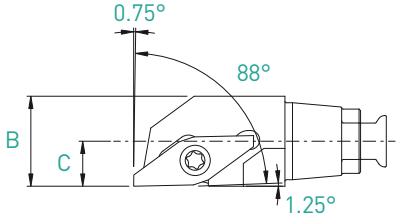
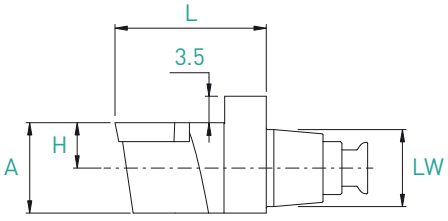




						L	R
Plaquettes WSP Inserts	LW	A x B	H	C	L	**Art. N°**	**Art. N°**
31_-32_	LW2	10x10	5	5	20	**LW2-310-10-0520-BC-JET**	**LW2-320-10-0520-BC-JET**
	LW3	12x12	6	6	20	**LW3-310-12-0620-BC-JET**	**LW3-320-12-0620-BC-JET**
	LW4	16x16	8	8	25	**LW4-310-16-0825-BC-JET**	**LW4-320-16-0825-BC-JET**

	Pièces de rechange Ersatzteile Spare parts		Options
LW	**Art. N°**	**Art. N°**	**Art. N°**
LW2	**V-M2.5X7.8-T8**	**LW2-U00.ER1.000**	**C-T8**
LW3		**LW3-U00.ER1.000**	
LW4		**LW4-U00.ER1.000**	

R



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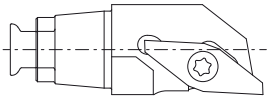
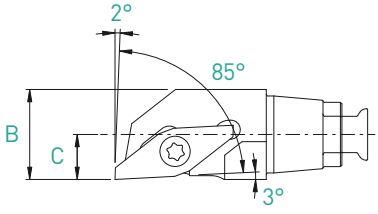
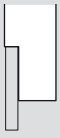
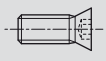
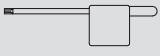




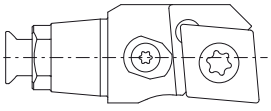
Plaquettes WSP Inserts	LW	A x B	H	C	L	L  Art. N°	R Art. N°
33_-34_	LW2	10x10	5	5	20	**LW2-330-10-0520-JET**	**LW2-340-10-0520-JET**
	LW3	12x12	6	6	20	**LW3-330-12-0620-JET**	**LW3-340-12-0620-JET**
	LW4	16x16	8	8	25	**LW4-330-16-0825-JET**	**LW4-340-16-0825-JET**

	Pièces de rechange Ersatzteile Spare parts		Options
			
LW	**Art. N°**	**Art. N°**	**Art. N°**
LW2	**V-M2.5X7.8-T8**	**LW2-U00.ER1.000**	**C-T8**
LW3		**LW3-U00.ER1.000**	
LW4		**LW4-U00.ER1.000**	

Têtes interchangeables
Wechselköpfe
Interchangeable heads

ISO-Line 80° | LW-SCL-JET

L



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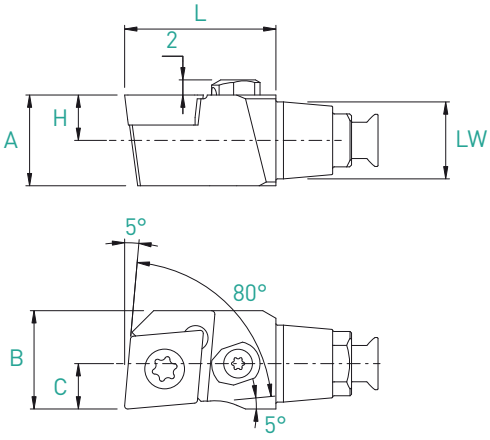
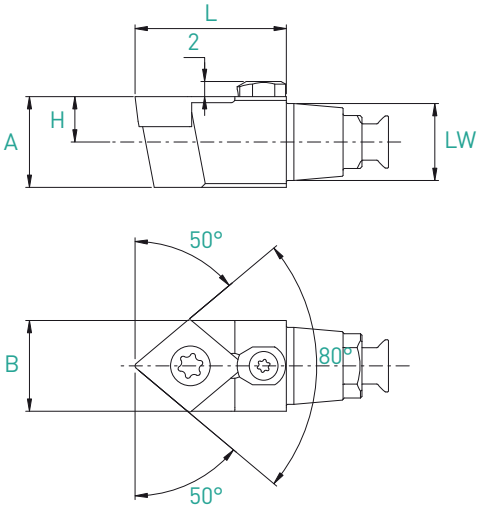
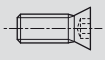
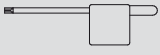


Plaquettes WSP Inserts	LW	A x B	H	C	L	L Art. N°	R Art. N°
CC..-0602..	LW2	10x10	5	5	20	LW2-SCLCL-10-0520-06-JET	LW2-SCLCR-10-0520-06-JET
	LW3	12x12	6	6	20	LW3-SCLCL-12-0620-06-JET	LW3-SCLCR-12-0620-06-JET
	LW4	16x16	8	8	25	LW4-SCLCL-16-0825-06-JET	LW4-SCLCR-16-0825-06-JET
CC..-09T3..	LW3	12x12	6	6	20	LW3-SCLCL-12-0620-09-JET	LW3-SCLCR-12-0620-09-JET
	LW4	16x16	8	8	25	LW4-SCLCL-16-0825-09-JET	LW4-SCLCR-16-0825-09-JET

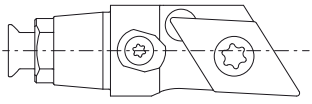
		Pièces de rechange Ersatzteile Spare parts			Options
Plaquettes WSP Inserts	LW	Art. N°	Art. N°	Art. N°	Art. N°
CC..-0602..	LW2	V-M2.5X7.8-T8	LWX-ER1.007.004	LW2-U00.ER1.000	C-T8
	LW3			LW3-U00.ER1.000	
	LW4			LW4-U00.ER1.000	
CC..-09T3..	LW3	V-M4X9-T15-ISO		LW3-U00.ER1.000	C-T15
	LW4			LW4-U00.ER1.000	



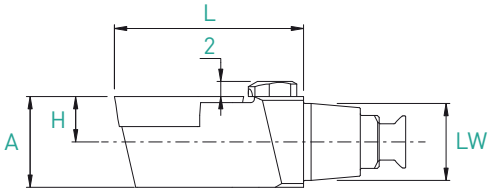
Plaquettes WSP Inserts	LW	A x B	H	L	Art. N°
CC..-0602..	LW2	10x10	5	20	**LW2-SCMCN-10-0020-06-JET**
	LW3	12x12	6	20	**LW3-SCMCN-12-0020-06-JET**
	LW4	16x16	8	25	**LW4-SCMCN-16-0025-06-JET**
CC..-09T3..	LW3	12x12	6	20	**LW3-SCMCN-12-0020-09-JET**
	LW4	16x16	8	25	**LW4-SCMCN-16-0025-09-JET**

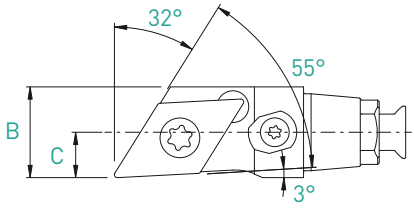
		Pièces de rechange Ersatzteile Spare parts			Options
Plaquettes WSP Inserts	LW	 Art. N°	Art. N°	Art. N°	 Art. N°
CC..-0602..	LW2	**V-M2.5X7.8-T8**	**LWX-ER1.007.004**	**LW2-U00.ER1.000**	**C-T8**
	LW3			**LW3-U00.ER1.000**	
	LW4			**LW4-U00.ER1.000**	
CC..-09T3..	LW3	**V-M4X9-T15-ISO**		**LW3-U00.ER1.000**	**C-T15**
	LW4			**LW4-U00.ER1.000**	

L



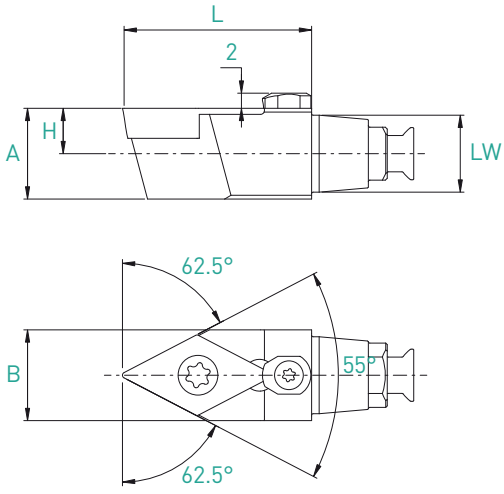
R





Plaquettes WSP Inserts	LW	A x B	H	C	L	L Art. N°	R Art. N°
DC..-0702..	LW2	10x10	5	5	20	LW2-SDJCL-10-0520-07-JET	LW2-SDJCR-10-0520-07-JET
	LW3	12x12	6	6	20	LW3-SDJCL-12-0620-07-JET	LW3-SDJCR-12-0620-07-JET
	LW4	16x16	8	8	25	LW4-SDJCL-16-0825-07-JET	LW4-SDJCR-16-0825-07-JET
DC..-11T3..	LW3	12x12	6	6	25	LW3-SDJCL-12-0625-11-JET	LW3-SDJCR-12-0625-11-JET
	LW4	16x16	8	8	25	LW4-SDJCL-16-0825-11-JET	LW4-SDJCR-16-0825-11-JET

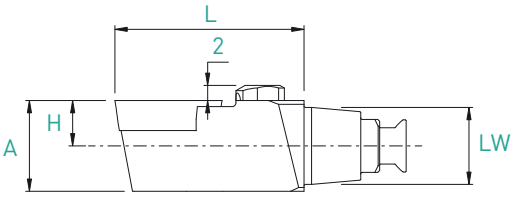
		Pièces de rechange Ersatzteile Spare parts			Options
Plaquettes WSP Inserts	LW	Art. N°	Art. N°	Art. N°	Art. N°
DC..-0702..	LW2	V-M2.5X7.8-T8	LWX-ER1.007.004	LW2-U00.ER1.000	C-T8
	LW3			LW3-U00.ER1.000	
	LW4			LW4-U00.ER1.000	
DC..-11T3..	LW3	V-M4X9-T15-ISO		LW3-U00.ER1.000	C-T15
	LW4			LW4-U00.ER1.000	



Plaquettes WSP Inserts	LW	A x B	H	L	Art. N°
DC..-0702..	LW2	10x10	5	20	**LW2-SDNCN-10-0020-07-JET**
	LW3	12x12	6	20	**LW3-SDNCN-12-0020-07-JET**
	LW4	16x16	8	25	**LW4-SDNCN-16-0025-07-JET**
DC..-11T3..	LW3	12x12	6	25	**LW3-SDNCN-12-0025-11-JET**
	LW4	16x16	8	25	**LW4-SDNCN-16-0025-11-JET**

		Pièces de rechange Ersatzteile Spare parts			Options
Plaquettes WSP Inserts	LW	**Art. N°**	**Art. N°**	**Art. N°**	**Art. N°**
DC..-0702..	LW2	**V-M2.5X7.8-T8**	**LWX-ER1.007.004**	**LW2-U00.ER1.000**	**C-T8**
	LW3			**LW3-U00.ER1.000**	
	LW4			**LW4-U00.ER1.000**	
DC..-11T3..	LW3	**V-M4X9-T15-ISO**		**LW3-U00.ER1.000**	**C-T15**
	LW4			**LW4-U00.ER1.000**	

R



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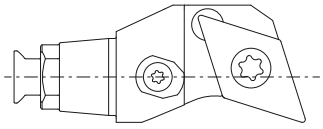
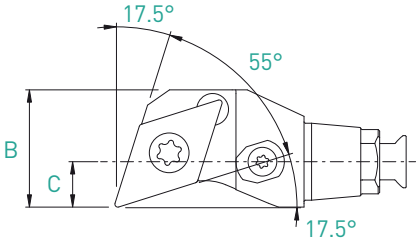
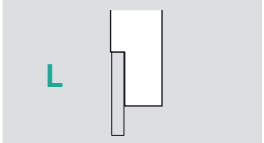
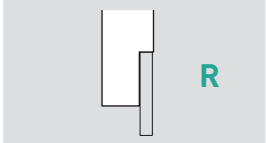








Plaquettes WSP Inserts	LW	A x B	H	C	L	Art. N°	Art. N°
DC..-0702..	LW2	10x10	5	5	20	**LW2-SDHCL-10-0520-07-JET**	**LW2-SDHCR-10-0520-07-JET**
	LW3	12x15.5	6	6	20	**LW3-SDHCL-12-0620-07-JET**	**LW3-SDHCR-12-0620-07-JET**
	LW4	16x16	8	8	25	**LW4-SDHCL-16-0825-07-JET**	**LW4-SDHCR-16-0825-07-JET**
DC..-11T3..	LW3	12x15.5	6	6	25	**LW3-SDHCL-12-0625-11-JET**	**LW3-SDHCR-12-0625-11-JET**
	LW4	16x16	8	8	25	**LW4-SDHCL-16-0825-11-JET**	**LW4-SDHCR-16-0825-11-JET**

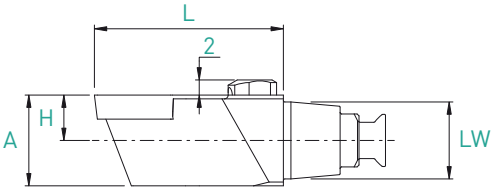
		Pièces de rechange Ersatzteile Spare parts			Options
Plaquettes WSP Inserts	LW	Art. N°	Art. N°	Art. N°	Art. N°
DC..-0702..	LW2	**V-M2.5X7.8-T8**	**LWX-ER1.007.004**	**LW2-U00.ER1.000**	**C-T8**
	LW3			**LW3-U00.ER1.000**	
	LW4			**LW4-U00.ER1.000**	
DC..-11T3..	LW3	**V-M4X9-T15-ISO**		**LW3-U00.ER1.000**	**C-T15**
	LW4			**LW4-U00.ER1.000**	

LW-SVJ-JET

ISO-Line 35°

Têtes interchangeables
Wechselköpfe
Interchangeable heads

R



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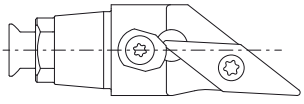
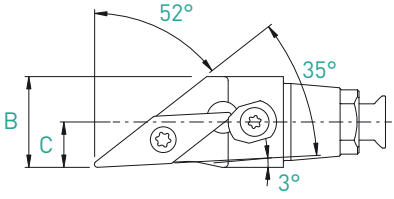
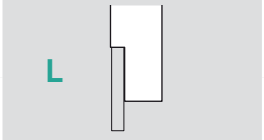
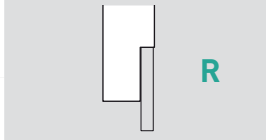
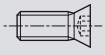
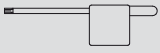








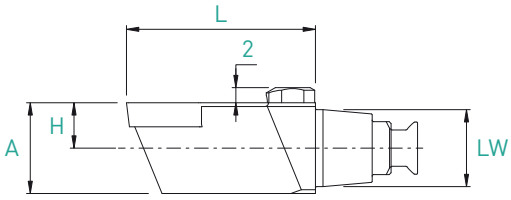
Plaquettes WSP Inserts	LW	A x B	H	C	L	Art. N°	Art. N°
VC..-1103..	LW2	10x10	5	5	25	**LW2-SVJCL-10-0525-11-JET**	**LW2-SVJCR-10-0525-11-JET**
	LW3	12x12	6	6	25	**LW3-SVJCL-12-0625-11-JET**	**LW3-SVJCR-12-0625-11-JET**
	LW4	16x16	8	8	25	**LW4-SVJCL-16-0825-11-JET**	**LW4-SVJCR-16-0825-11-JET**
VC..-1303..	LW3	12x12	6	6	30	**LW3-SVJCL-12-0630-13-JET**	**LW3-SVJCR-12-0630-13-JET**
	LW4	16x16	8	8	30	**LW4-SVJCL-16-0830-13-JET**	**LW4-SVJCR-16-0830-13-JET**
VC..-1604..	LW4	16x16	8	8	35	**LW4-SVJCL-16-0835-16-JET**	**LW4-SVJCR-16-0835-16-JET**

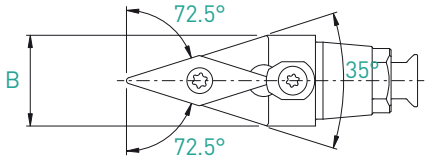
		Pièces de rechange Ersatzteile Spare parts			Options
Plaquettes WSP Inserts	LW	 Art. N°	Art. N°	Art. N°	 Art. N°
VC..-1103..	LW2	**V-M2.5X7.8-T8**	**LWX-ER1.007.004**	**LW2-U00.ER1.000**	**C-T8**
	LW3			**LW3-U00.ER1.000**	
	LW4			**LW4-U00.ER1.000**	
VC..-1303..	LW3	**V-M3X7.3-T8-ISO**		**LW3-U00.ER1.000**	**C-T15**
	LW4			**LW4-U00.ER1.000**	
VC..-1604..	LW4	**V-M4X9-T15-ISO**		**LW4-U00.ER1.000**	**C-T15**

Têtes interchangeables
Wechselköpfe
Interchangeable heads

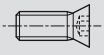
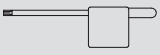
ISO-Line 35°

LW-SVV-JET



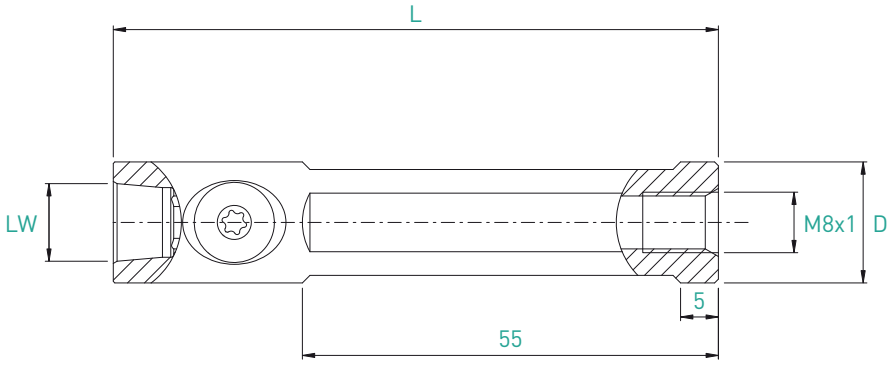


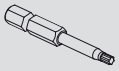
Plaquettes WSP Inserts	LW	A x B	H	L	Art. N°
VC..-1103..	LW2	10x10	5	25	**LW2-SVVCN-10-0025-11-JET**
	LW3	12x12	6	25	**LW3-SVVCN-12-0025-11-JET**
	LW4	16x16	8	25	**LW4-SVVCN-16-0025-11-JET**
VC..-1303..	LW3	12x12	6	30	**LW3-SVVCN-12-0030-13-JET**
	LW4	16x16	8	30	**LW4-SVVCN-16-0030-13-JET**
VC..-1604..	LW4	16x16	8	35	**LW4-SVVCN-16-0035-16-JET**

		Pièces de rechange Ersatzteile Spare parts			Options
Plaquettes WSP Inserts	LW	 Art. N°	Art. N°	Art. N°	 Art. N°
VC..-1103..	LW2	**V-M2.5X7.8-T8**	**LWX-ER1.007.004**	**LW2-U00.ER1.000**	**C-T8**
	LW3			**LW3-U00.ER1.000**	
	LW4			**LW4-U00.ER1.000**	
VC..-1303..	LW3	**V-M3X7.3-T8-ISO**		**LW3-U00.ER1.000**	
	LW4			**LW4-U00.ER1.000**	
VC..-1604..	LW4	**V-M4X9-T15-ISO**		**LW4-U00.ER1.000**	**C-T15**

LW-D

Supports cylindriques
Zylindrische Halter
Cylinder holders



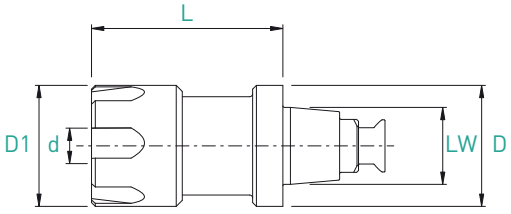
					Pièces de rechange Ersatzteile Spare parts		Options	
								
LW	D	L	L1	Art. N°	Art. N°	Art. N°	Art. N°	Art. N°
LW3	16	80	55	**LW3-D16-80-JET**	**LW3-ER1.012.014**	**JB-M8X1**	**CD-NM3.8**	**TX15-E6.3**
LW4	19.05	80	55	**LW4-D19.05-80-JET**	**LW4-ER1.014.018**		**CD-NM5.7**	**TX20-E6.3**
	20	80	55	**LW4-D20-80-JET**				
	22	80	55	**LW4-D22-80-JET**	**LW4-ER1.014.019**			
	25	80	55	**LW4-D25-80-JET**	**LW4-ER1.015.023**			
	25.4	80	55	**LW4-D25.4-80-JET**				

Utilisation d'une clé dynamométrique recommandée
Benutzung eines Drehmomentschlüssel empfohlen
Recommended use of a torque wrench

Options	
	Art. N°
	M8X1
	voir JET-LINE siehe JET-LINE see JET-LINE

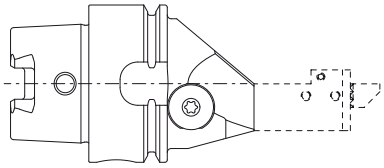
Têtes interchangeables porte-pince
Spannzangenwechselköpfe
Interchangeable heads gripper holder

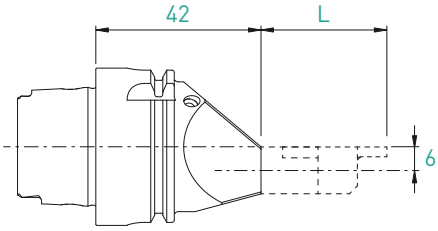
LW-E



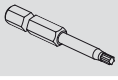
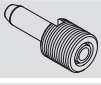
LW	D	D1	L	Pince type	d	Art. N°	Pièces de rechange Ersatzteile Spare parts Art. N°	Art. N°
LW3	16	16	26	ER11	0.5-7	**LW3-E11-D16-26**	**E11-ER1.001-012**	**LW3-U00.ER1.00**
LW4	19	16	26	ER11	0.5-7	**LW4-E11-D19-26**		**LW4-U00.ER1.00**
	19	22	35	ER16	0.5-10	**LW4-E16-D19-35**	**E16-ER1.001-018**	

HSK-40-LW3



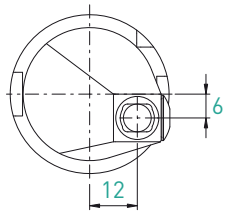


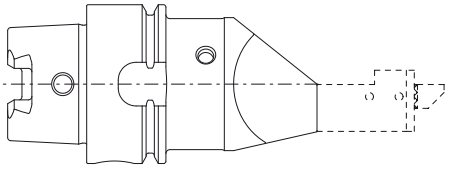
					BUMOTEC S191
LW	Compatibility	Page	L	**Art. N°**	**Art. N°**
LW3	LW3-740..	13.08	32	**HSK-T40-LW3-0642-JET**	**HSK-A40-LW3-0642-JET-BU**
	LW3-760..	13.09	43		
	LW3-320-340..	13.12/13.14	20		
	LW3-SCLCR..	13.15	20		
	LW3-SCMCN..	13.16	20		
	LW3-SDJCR..	13.17	20		
	LW3-SDNCN..	13.18	20		
	LW3-SDHCR..	13.19	20		
	LW3-SVJCR..	13.20	25		

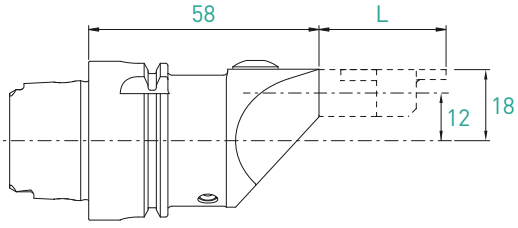
Pièces de rechange Ersatzteile Spare parts	Options			
				
Art. N°	**Art. N°**	**Art. N°**	**Art. N°**	**Art. N°**
LW3-ER1.012.014	**CD-NM3.8**	**TX15-E6.3**	**HSK-40-JET-M12X1**	**C-HSK-40-JET**

Porte-outils
Halter
Holders

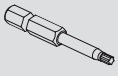
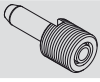
HSK-T40-LW3





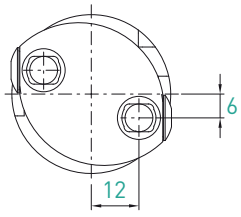


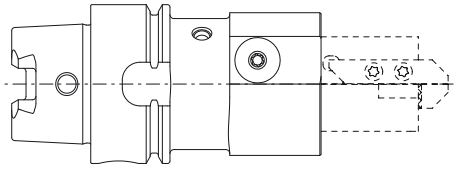
					BUMOTEC S191
LW	Compatibility	Page	L	**Art. N°**	**Art. N°**
LW3	LW3-740..	13.08	32	**HSK-T40-LW3-1258-JET**	**HSK-A40-LW3-1258-JET-BU**
	LW3-760..	13.09	43		
	LW3-320-340..	13.12/13.14	20		
	LW3-SCLCR..	13.15	20		
	LW3-SCMCN..	13.16	20		
	LW3-SDJCR..	13.17	20		
	LW3-SDNCN..	13.18	20		
	LW3-SDHCR..	13.19	20		
	LW3-SVJCR..	13.20	25		

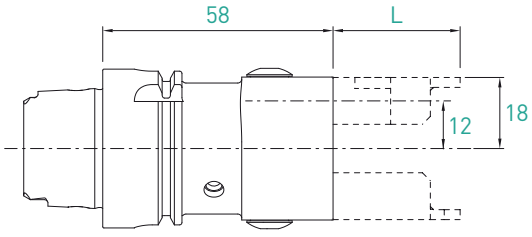
Pièces de rechange Ersatzteile Spare parts	Options			
				
Art. N°	**Art. N°**	**Art. N°**	**Art. N°**	**Art. N°**
LW3-ER1.012.014	**CD-NM3.8**	**TX15-E6.3**	**HSK-40-JET-M12X1**	**C-HSK-40-JET**

HSK-T40-LW3/2

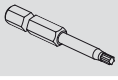
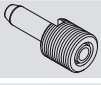
Porte-outils
Halter
Holders





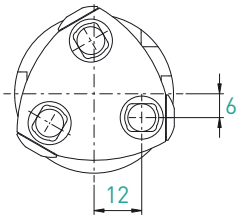


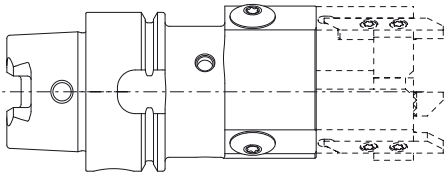
LW	Compatibility	Page	L	Art. N°
LW3	LW3-740..	13.08	32	HSK-T40-LW3/2-1258-JET
	LW3-760..	13.09	43	
	LW3-320-340..	13.12/13.14	20	
	LW3-SCLCR..	13.15	20	
	LW3-SCMCN..	13.16	20	
	LW3-SDJCR..	13.17	20	
	LW3-SDNCN..	13.18	20	
	LW3-SDHCR..	13.19	20	
	LW3-SVJCR..	13.20	25	

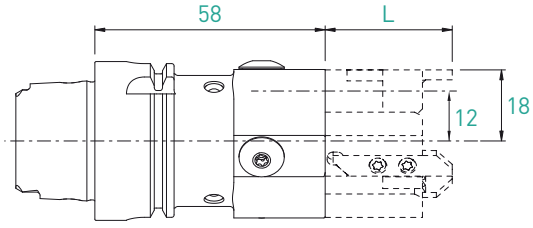
Pièces de rechange Ersatzteile Spare parts	Options			
				
Art. N°	**Art. N°**	**Art. N°**	**Art. N°**	**Art. N°**
LW3-ER1.012.014	**CD-NM3.8**	**TX15-E6.3**	**HSK-40-JET-M12X1**	**C-HSK-40-JET**

Porte-outils
Halter
Holders

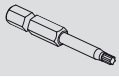
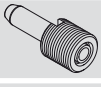
HSK-T40-LW3/3



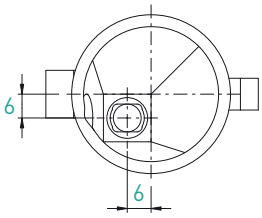


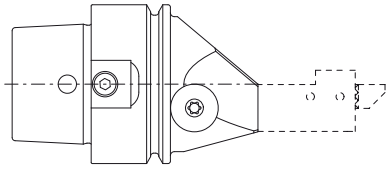


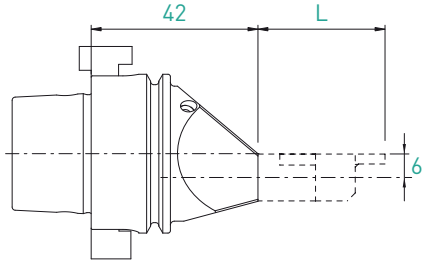
LW	Compatibility	Page	L	Art. N°
LW3	LW3-740..	13.08	32	HSK-T40-LW3/3-1258-JET
	LW3-760..	13.09	43	
	LW3-320-340..	13.12/13.14	20	
	LW3-SCLCR..	13.15	20	
	LW3-SCMCN..	13.16	20	
	LW3-SDJCR..	13.17	20	
	LW3-SDNCN..	13.18	20	
	LW3-SDHCR..	13.19	20	
	LW3-SVJCR..	13.20	25	

Pièces de rechange Ersatzteile Spare parts	Options			
				
Art. N°	**Art. N°**	**Art. N°**	**Art. N°**	**Art. N°**
LW3-ER1.012.014	**CD-NM3.8**	**TX15-E6.3**	**HSK-40-JET-M12X1**	**C-HSK-40-JET**

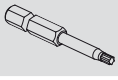
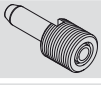
HSK-E40-LW3





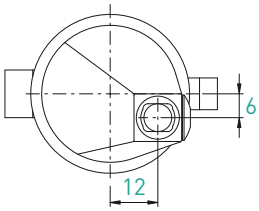


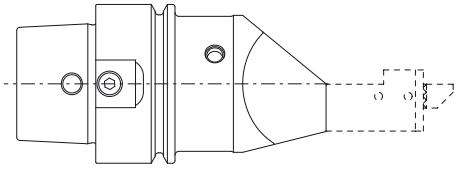
				WILLEMIN-MACODEL
LW	Compatibility	Page	L	**Art. N°**
LW3	LW3-740..	13.08	32	**HSK-E40-LW3-0642-JET-WM**
	LW3-760..	13.09	43	
	LW3-320-340..	13.12/13.14	20	
	LW3-SCLCR..	13.15	20	
	LW3-SCMCN..	13.16	20	
	LW3-SDJCR..	13.17	20	
	LW3-SDNCN..	13.18	20	
	LW3-SDHCR..	13.19	20	
	LW3-SVJCR..	13.20	25	

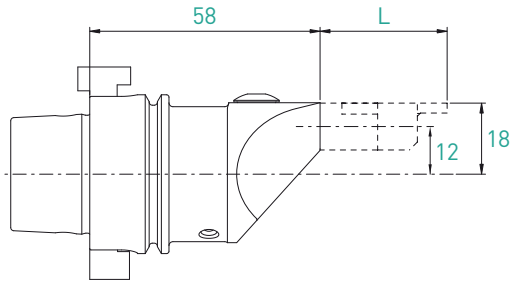
Pièces de rechange Ersatzteile Spare parts	Options			
				
Art. N°	**Art. N°**	**Art. N°**	**Art. N°**	**Art. N°**
LW3-ER1.012.014	**CD-NM3.8**	**TX15-E6.3**	**HSK-40-JET-M12X1**	**C-HSK-40-JET**

Porte-outils
Halter
Holders

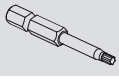
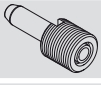
HSK-E40-LW3



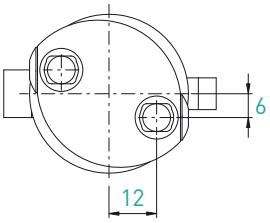


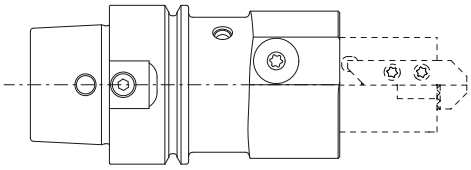


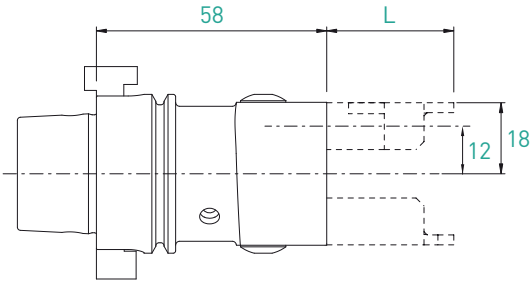
				WILLEMIN-MACODEL
LW	Compatibility	Page	L	**Art. N°**
LW3	LW3-740..	13.08	32	**HSK-E40-LW3-1258-JET-WM**
	LW3-760..	13.09	43	
	LW3-320-340..	13.12/13.14	20	
	LW3-SCLCR..	13.15	20	
	LW3-SCMCN..	13.16	20	
	LW3-SDJCR..	13.17	20	
	LW3-SDNCN..	13.18	20	
	LW3-SDHCR..	13.19	20	
	LW3-SVJCR..	13.20	25	

Pièces de rechange Ersatzteile Spare parts	Options			
				
Art. N°	**Art. N°**	**Art. N°**	**Art. N°**	**Art. N°**
LW3-ER1.012.014	**CD-NM3.8**	**TX15-E6.3**	**HSK-40-JET-M12X1**	**C-HSK-40-JET**

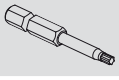
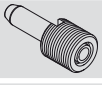
HSK-E40-LW3/2





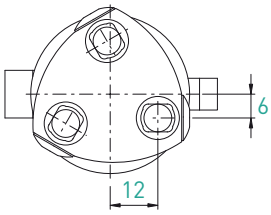


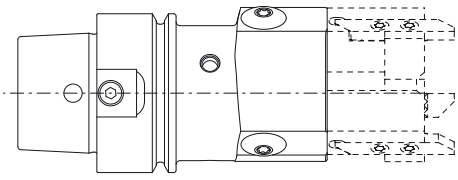
				WILLEMIN-MACODEL
LW	Compatibility	Page	L	**Art. N°**
LW3	LW3-740..	13.08	32	**HSK-E40-LW3/2-1258-JET-WM**
	LW3-760..	13.09	43	
	LW3-320-340..	13.12/13.14	20	
	LW3-SCLCR..	13.15	20	
	LW3-SCMCN..	13.16	20	
	LW3-SDJCR..	13.17	20	
	LW3-SDNCN..	13.18	20	
	LW3-SDHCR..	13.19	20	
	LW3-SVJCR..	13.20	25	

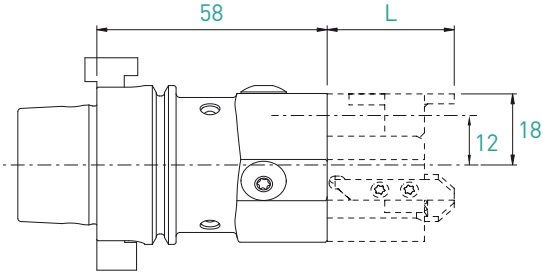
Pièces de rechange Ersatzteile Spare parts	Options			
				
Art. N°	**Art. N°**	**Art. N°**	**Art. N°**	**Art. N°**
LW3-ER1.012.014	**CD-NM3.8**	**TX15-E6.3**	**HSK-40-JET-M12X1**	**C-HSK-40-JET**

Porte-outils
Halter
Holders

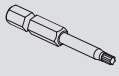
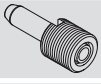
HSK-E40-LW3/3



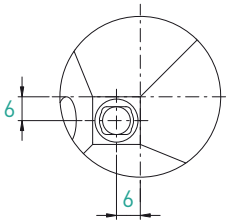


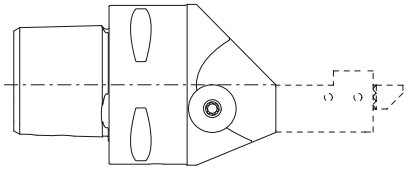


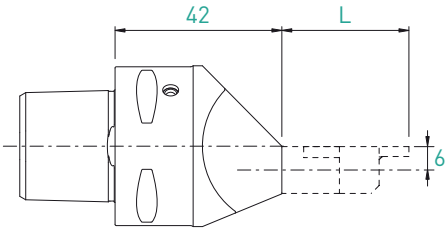
				WILLEMIN-MACODEL
LW	Compatibility	Page	L	**Art. N°**
LW3	LW3-740..	13.08	32	**HSK-E40-LW3/3-1258-JET-WM**
	LW3-760..	13.09	43	
	LW3-320-340..	13.12/13.14	20	
	LW3-SCLCR..	13.15	20	
	LW3-SCMCN..	13.16	20	
	LW3-SDJCR..	13.17	20	
	LW3-SDNCN..	13.18	20	
	LW3-SDHCR..	13.19	20	
	LW3-SVJCR..	13.20	25	

Pièces de rechange Ersatzteile Spare parts	Options			
				
Art. N°	**Art. N°**	**Art. N°**	**Art. N°**	**Art. N°**
LW3-ER1.012.014	**CD-NM3.8**	**TX15-E6.3**	**HSK-40-JET-M12X1**	**C-HSK-40-JET**

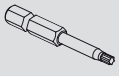
PSC4-LW3





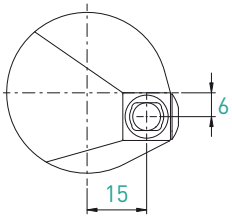


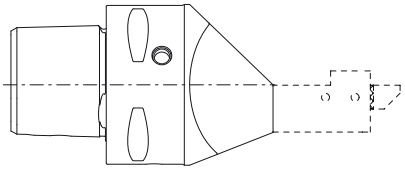
LW	Compatibility	Page	L	Art. N°
LW3	LW3-740..	13.08	32	PSC4-LW3-0642-JET
	LW3-760..	13.09	43	
	LW3-320-340..	13.12/13.14	20	
	LW3-SCLCR..	13.15	20	
	LW3-SCMCN..	13.16	20	
	LW3-SDJCR..	13.17	20	
	LW3-SDNCN..	13.18	20	
	LW3-SDHCR..	13.19	20	
	LW3-SVJCR..	13.20	25	

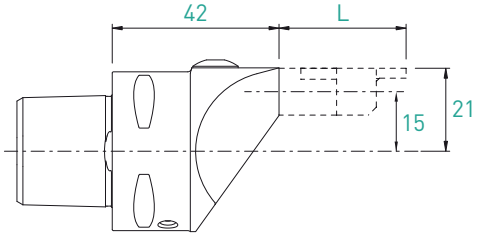
Pièces de rechange Ersatzteile Spare parts	Options			
				
Art. N°	**Art. N°**	**Art. N°**	**Art. N°**	**Art. N°**
LW3-ER1.012.014	**CD-NM3.8**	**TX15-E6.3**	**PSC4-JET-M14X1.5**	**C-PSC4-JET**

Porte-outils
Halter
Holders

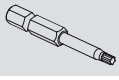
PSC4-LW3



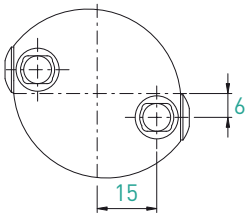


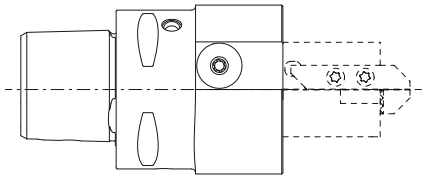


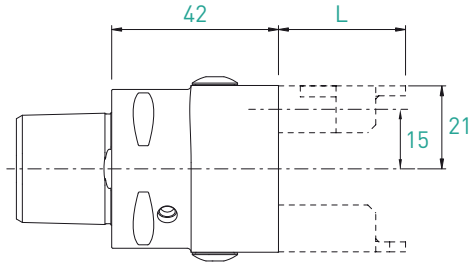
LW	Compatibility	Page	L	Art. N°
LW3	LW3-740..	13.08	32	PSC4-LW3-1542-JET
	LW3-760..	13.09	43	
	LW3-320-340..	13.12/13.14	20	
	LW3-SCLCR..	13.15	20	
	LW3-SCMCN..	13.16	20	
	LW3-SDJCR..	13.17	20	
	LW3-SDNCN..	13.18	20	
	LW3-SDHCR..	13.19	20	
	LW3-SVJCR..	13.20	25	

Pièces de rechange Ersatzteile Spare parts	Options			
				
Art. N°	**Art. N°**	**Art. N°**	**Art. N°**	**Art. N°**
LW3-ER1.012.014	**CD-NM3.8**	**TX15-E6.3**	**PSC4-JET-M14X1.5**	**C-PSC4-JET**

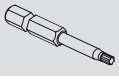
PSC4-LW3/2





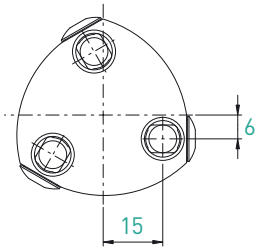


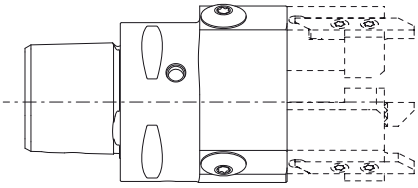
LW	Compatibility	Page	L	Art. N°
LW3	LW3-740..	13.08	32	PSC4-LW3/2-1542-JET
	LW3-760..	13.09	43	
	LW3-320-340..	13.12/13.14	20	
	LW3-SCLCR..	13.15	20	
	LW3-SCMCN..	13.16	20	
	LW3-SDJCR..	13.17	20	
	LW3-SDNCN..	13.18	20	
	LW3-SDHCR..	13.19	20	
	LW3-SVJCR..	13.20	25	

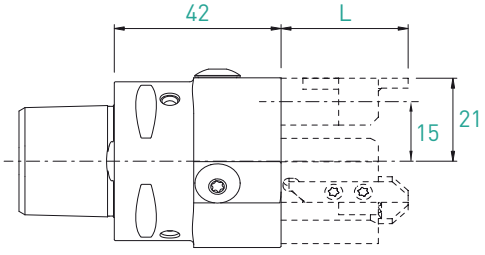
Pièces de rechange Ersatzteile Spare parts	Options			
				
Art. N°	**Art. N°**	**Art. N°**	**Art. N°**	**Art. N°**
LW3-ER1.012.014	**CD-NM3.8**	**TX15-E6.3**	**PSC4-JET-M14X1.5**	**C-PSC4-JET**

Porte-outils
Halter
Holders

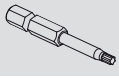
PSC4-LW3/3



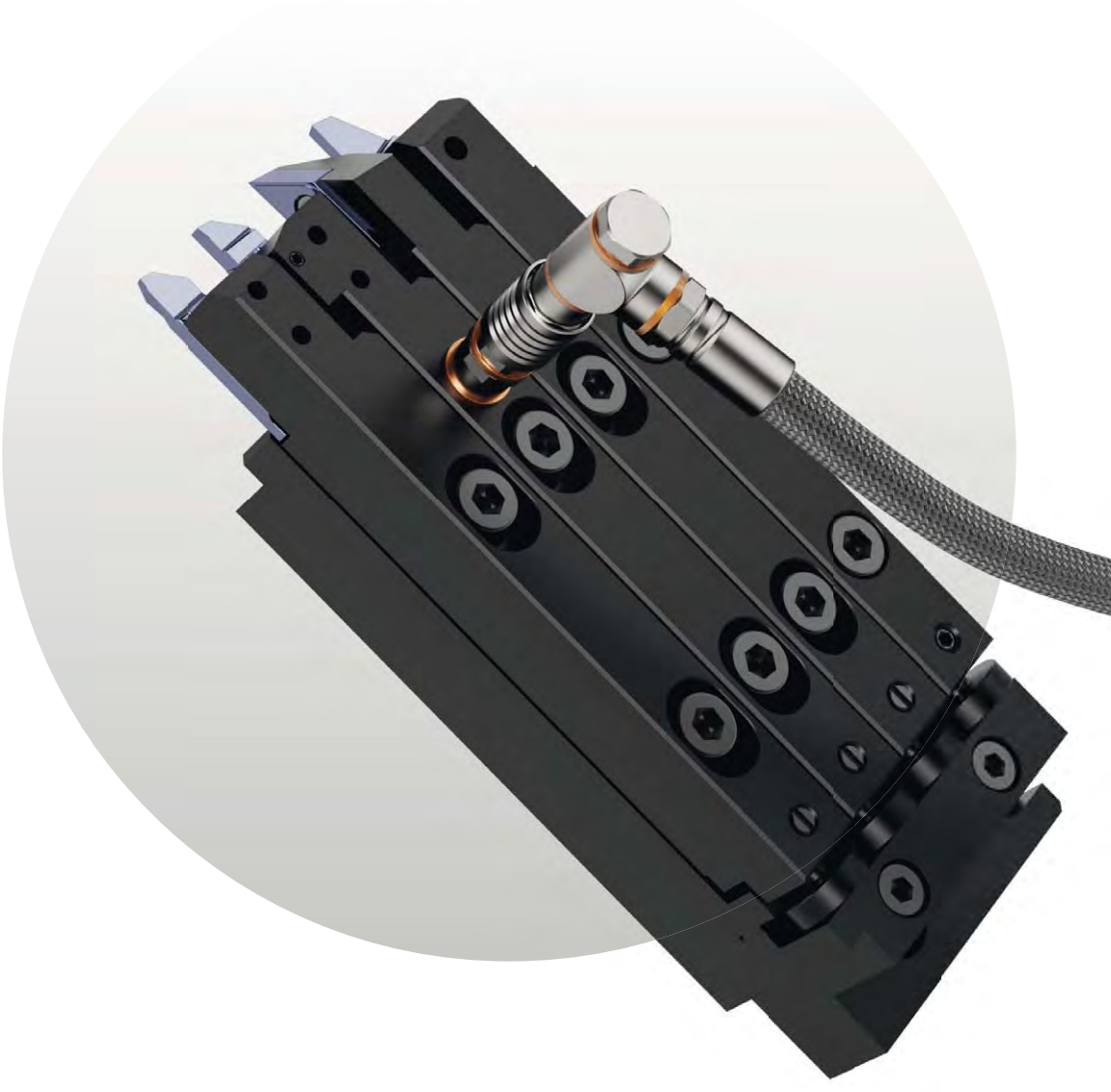




LW	Compatibility	Page	L	Art. N°
LW3	LW3-740..	13.08	32	PSC4-LW3/3-1542-JET
	LW3-760..	13.09	43	
	LW3-320-340..	13.12/13.14	20	
	LW3-SCLCR..	13.15	20	
	LW3-SCMCN..	13.16	20	
	LW3-SDJCR..	13.17	20	
	LW3-SDNCN..	13.18	20	
	LW3-SDHCR..	13.19	20	
	LW3-SVJCR..	13.20	25	

Pièces de rechange Ersatzteile Spare parts	Options			
				
Art. N°	**Art. N°**	**Art. N°**	**Art. N°**	**Art. N°**
LW3-ER1.012.014	**CD-NM3.8**	**TX15-E6.3**	**PSC4-JET-M14X1.5**	**C-PSC4-JET**

MODU-Line



APPLITEC
CUTTING TOOLS

Index

Infos et avantages
Infos und Vorteile
Infos and advantages > 14.04

Supports de base / Grundhalter / Base holders

Adaptations disponibles pour les machines suivantes:
Verfügbare Anpassungen für folgende Maschinen:
Available adapters for the following machines:

Citizen > 14.06
Hanwha > 14.20
Manurhin > 14.24
Metafil > 14.26
Star > 14.28
Tornos > 14.46
Tsugami > 14.66

Porte-outils / Halter / Holders

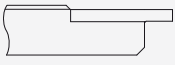
Porte-outils
Halter
Holders

ML12

ML16

Infos > 14.74

Right cut



TOP-Line > 14.78
TURN-Line > 14.80
ISO-Line > 14.80
EVOCUT-Line > 14.83
CUT-Line > 14.84
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Cut off line

TOP-Line > 14.90
TURN-Line > 14.92
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EVOCUT-Line > 14.94
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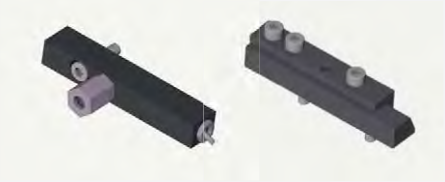
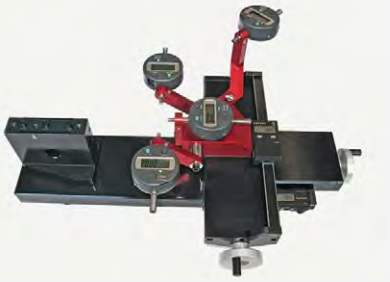
PRO-Line > 14.96
ECO-Line > 14.97

Modules d'arrosage et de serrage
Kühlmittelzufuhr- und Spannelemente
Coolant and clamping supply unit



> 14.98

Banc de préréglage
Voreinstellgerät
Presetting device



> 14.100

Pièces de rechange et accessoires
Ersatzteile und Zubehöre
Spare parts and accessories

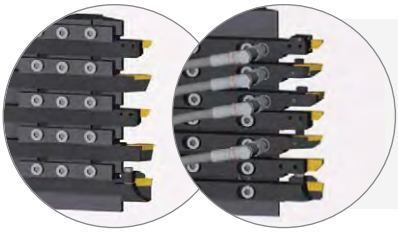
> 14.102

Original system	MODU-Line system

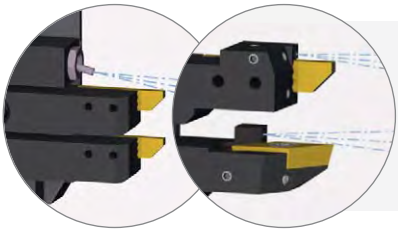
Système d'outils modulaires
pour tours automatiques

Modulares Werkzeugsystem
für Langdrehautomaten

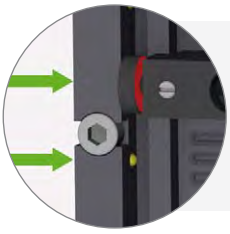
Modular tooling system for
sliding headstock automatic lathes



Plus d'outils disponibles
Mehr verfügbaren Werkzeuge
More available tools

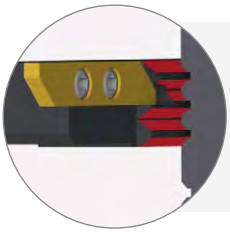


Système d'arrosage efficace
Effizientes Kühlmittelzufuhrsystem
Efficient coolant supply system

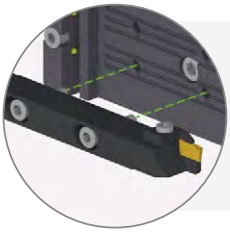


Repositionnement précis, poussée axiale automatique
Präzise Nachpositionierung, automatischer Axialschub
Precise repositionning, automatic axial thrust

Possibilité de préréglage et de réglage de la longueur des outils
Voreinstellbar auf feste oder einstellbare Länge
Presetting on fixed or adjustable length



Système de fixation robuste et rigide
Robustes und starres Spannsystem
Strong and stable clamping system



Changement d'outil simple et rapide
Einfacher und schneller Werkzeugwechsel
Easy and quick tool replacement

Citizen

Adaptations disponibles pour les machines suivantes
Verfügbare Anpassungen für folgende Maschinen
Available adapters for the following machines

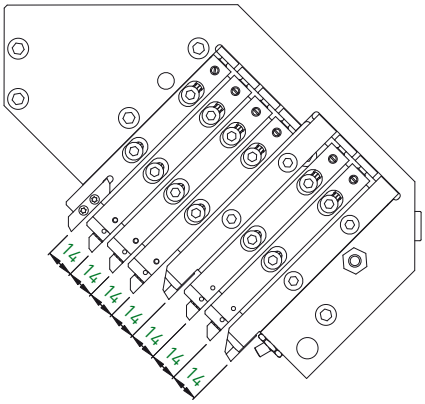
Citizen

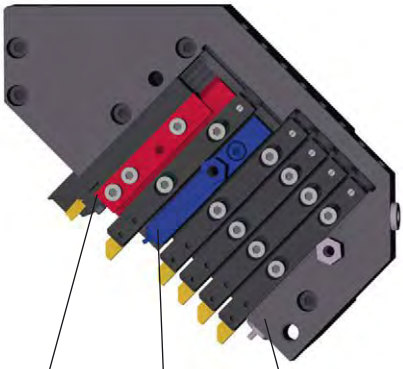
Machine Maschine Machine	Adaptations Anpassungen Adapters	Type Typ Type	Page Seite Page
C12/C16	ML12-CITIZEN-C16	ML12	14.07
L12-1M7	ML12-CITIZEN-L12-1M7		14.08
L12-2M10	ML12-CITIZEN-L12-2M10		14.09
M16V/VIII	ML12-CITIZEN-M16V/VIII		14.10
R04	ML12-CITIZEN-R04-QTF3101-3T		14.13
	ML12-CITIZEN-R04-QTF5008-4T		14.11
	ML12-CITIZEN-R04-QTF5108-4T		
R07	ML12-CITIZEN-R07-QTF4008-5T		14.14
	ML12-CITIZEN-R07-QTF4108-6T		
	ML12-CITIZEN-R07-QTF4208-3T		14.15
	ML12-CITIZEN-R07-QTF4608-4T		
K12/K16	ML16-CITIZEN-K16	ML16	14.16
L16/L20-5M1/5M7	ML16-CITIZEN-L20		14.17
L20E-1M8/L20X-1M10/ L20-2M8/2M12	ML16-CITIZEN-L20E		14.18
L20E-3M	ML16-L20E-GTF7812		14.19

Citizen C12 / C16

+ 2 outils (max 8)
+ 2 Werkzeuge (max 8)
+ 2 tools (max 8)

ML12

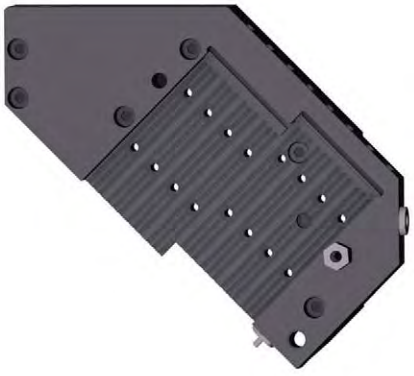




Outil ⍁ 12 mm possible avec module de serrage
Werkzeug ⍁ 12 mm mit Spannelement möglich
Tool ⍁ 12mm possible with clamping unit

Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)

Arrosage intégré
Integrierter Kühlmittel
Integrated coolant

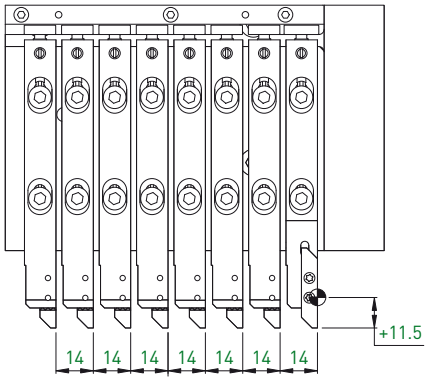


			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML12-CITIZEN-C16	ML12	> 14.77	**ML12-FIX-12/14**	**ML12-JET-5/16**	14.98

ML12

+ 2 outils (max 8)
+ 2 Werkzeuge (max 8)
+ 2 tools (max 8)

Citizen L12-1M7

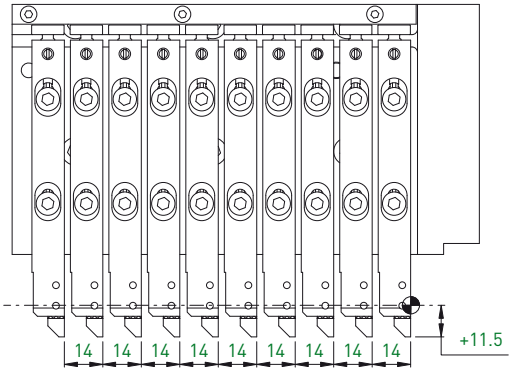


			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML12-CITIZEN-L12-1M7	ML12	> 14.77	–	ML12-JET-5/16	14.98

Citizen L12-2M10

+ 3 outils (max 10)
+ 3 Werkzeuge (max 10)
+ 3 tools (max 10)

ML12

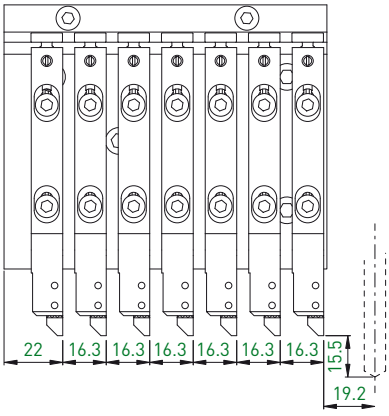


			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML12-CITIZEN-L12-2M10	ML12	> 14.77	–	ML12-JET-5/16	14.98

ML12

+ 2 outils (max 7)
+ 2 Werkzeuge (max 7)
+ 2 tools (max 7)

Citizen M16 V/VIII

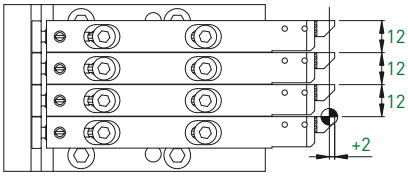


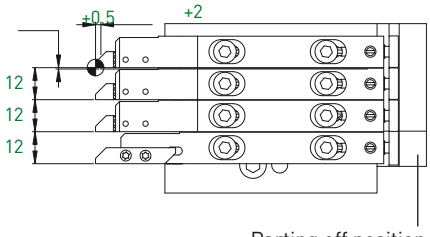
			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML12-CITIZEN-M16V/VIII	ML12	> 14.77	–	ML12-JET-5/16	14.98

Citizen R04

+ 1 outil (max 8)
+ 1 Werkzeug (max 8)
+ 1 tool (max 8)

ML12





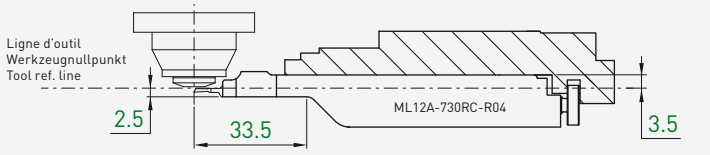
Parting off position

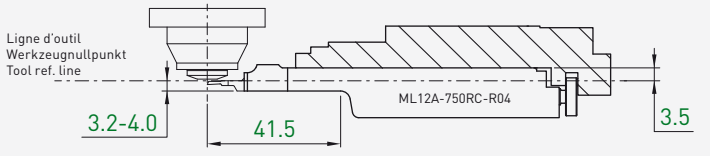
ML12-CITIZEN-R04-QTF5008-4T

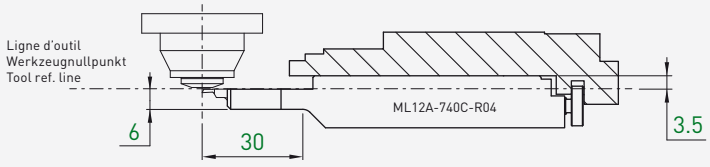
ML12-CITIZEN-R04-QTF5108-4T

				Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
4T	**ML12-CITIZEN-R04-QTF5008-4T**	ML12	> 14.77	–	ML12-JET-5/16	14.98
	ML12-CITIZEN-R04-QTF5108-4T					

avec canon
mit Führungsbuchse
with guide bush





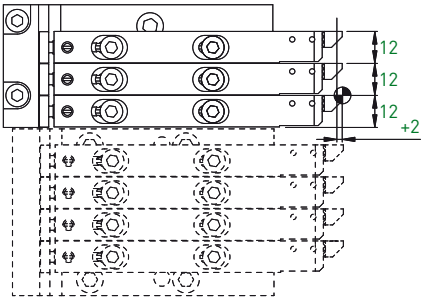


Type de machine Maschinen-Typ Type of machine	Porte-outils Halter Holders	**Art. N°**	Plaquettes Wendeplatten Inserts	Pages Seiten Pages
Citizen R04	ML12	**ML12A-730RC-R04**	731R... / 731RSF	> TOP-Line TOP-Watch
		ML12A-750RC-R04	751R... / 751RDSF	
		ML12A-740-C-R04	741 / 741SF	

Citizen R04

+ 3 outils (max 3)
+ 3 Werkzeuge (max 3)
+ 3 tools (max 3)

ML12

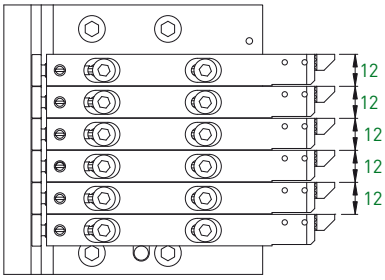


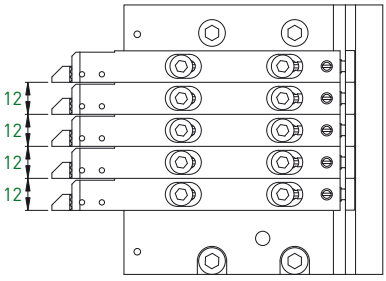
			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML12-CITIZEN-R04-QTF3101-3T	ML12	> 14.77	–	ML12-JET-5/16	14.98

ML12

+ 1 outil (max 11)
+ 1 Werkzeug (max 11)
+ 1 tool (max 11)

Citizen R07





ML12-CITIZEN-R07-QTF4108-6T

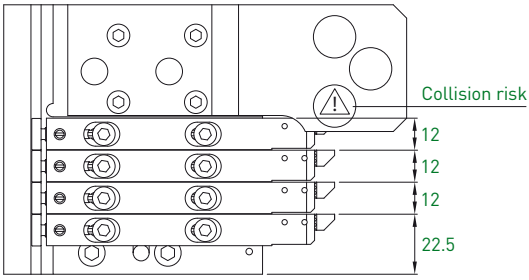
ML12-CITIZEN-R07-QTF4008-5T

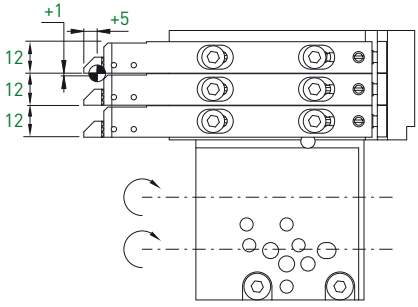
				Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
5T	**ML12-CITIZEN-R07-QTF4008-5T**	ML12	> 14.77	–	ML12-JET-5/16	14.98
6T	**ML12-CITIZEN-R07-QTF4108-6T**					

Citizen R07

+ 1 outil (max 7)
+ 1 Werkzeug (max 7)
+ 1 tool (max 7)

ML12





ML12-CITIZEN-R07-QTF4608-4T

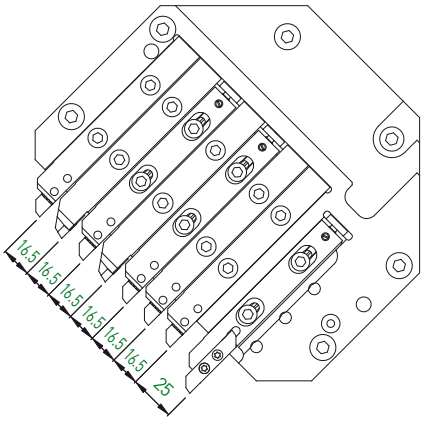
ML12-CITIZEN-R07-QTF4208-3T

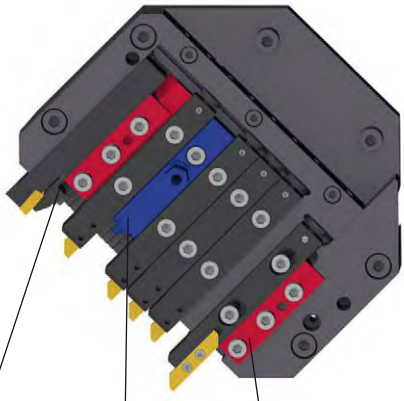
				Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
3T	**ML12-CITIZEN-R07-QTF4208-3T**	ML12	> 14.77	–	ML12-JET-5/16	14.98
4T	**ML12-CITIZEN-R07-QTF4608-4T**					

ML16

+ 2 outils (max 8)
+ 2 Werkzeuge (max 8)
+ 2 tools (max 8)

Citizen K12 / K16 K12E / K16E





Outil ⍁ 16 mm possible avec module de serrage
Werkzeug ⍁ 16 mm mit Spannelement möglich
Tool ⍁ 16 mm possible with clamping unit

Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)

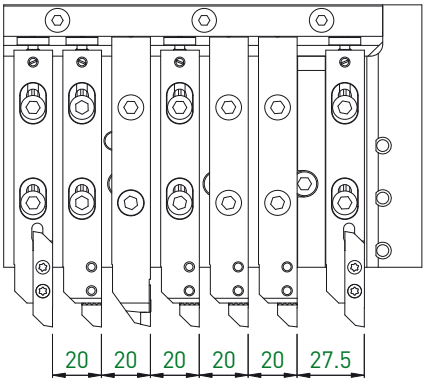
1 serrage ML16-FIX-16 pour outil ⍁ 16 mm inclus
1 Spannung ML16-FIX-16 für Werkzeug ⍁ 16 mm inbegriffen
1 clamping ML16-FIX-16 for tool ⍁ 16 mm included

			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-CITIZEN-K16	ML16	> 14.77	**ML16-FIX-16/16.5**	**ML16-JET-7/16**	14.98

Citizen L16 / L20-5M1 / 5M7

+ 1 outil (max 7)
+ 1 Werkzeug (max 7)
+ 1 tool (max 7)

ML16



Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)

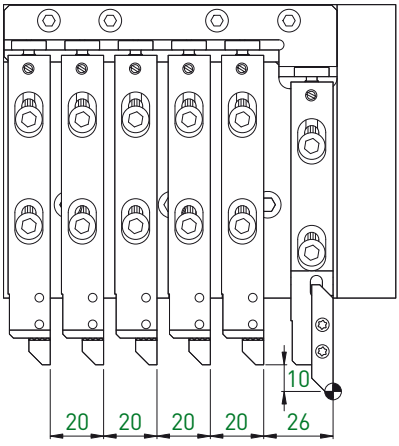
1 serrage ML16-FIX-16 pour outil ⍁ 16 mm inclus
1 Spannung ML16-FIX-16 für Werkzeug ⍁ 16 mm inbegriffen
1 clamping ML16-FIX-16 for tool ⍁ 16 mm included

			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-CITIZEN-L20	ML16	> 14.77	–	ML16-JET-7/16	14.98

ML16

+ 1 outil (max 6)
+ 1 Werkzeug (max 6)
+ 1 tool (max 6)

Citizen **L20E-1M8**
L20X-1M10
L20-2M8/2M12

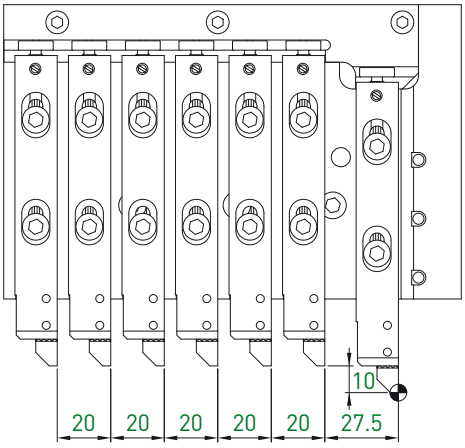


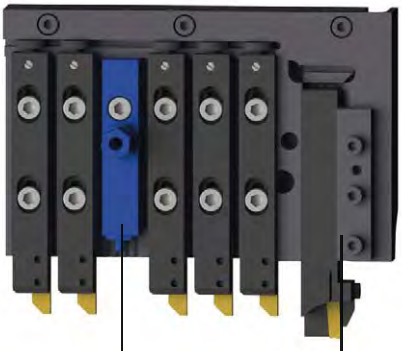
			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-CITIZEN-L20E	ML16	> 14.77	–	ML16-JET-7/16	14.98

Citizen L20E-3M

+ 1 outil (max 7)
+ 1 Werkzeug (max 7)
+ 1 tool (max 7)

ML16





Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)

1 serrage ML16-FIX-16 pour outil ⍁ 16 mm inclus
1 Spannung ML16-FIX-16 für Werkzeug ⍁ 16 mm inbegriffen
1 clamping ML16-FIX-16 for tool ⍁ 16 mm included

			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-L20E-GTF7812	ML16	> 14.77	–	ML16-JET-7/16	14.98

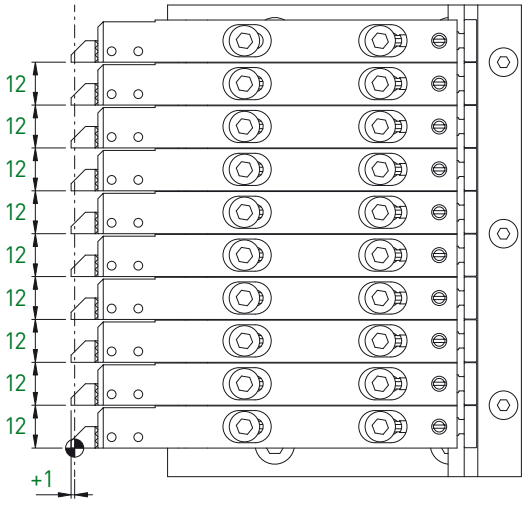
Hanwha

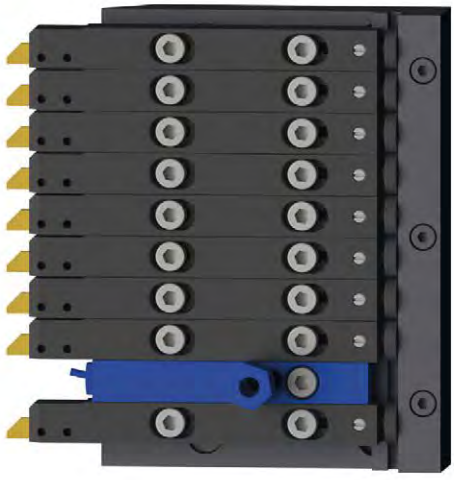
Machine Maschine Machine	Adaptations Anpassungen Adapters	Type Typ Type	Page Seite Page
XD10	ML12-HANWHA-XD10	ML12	14.21
XD20M	ML12-HANWHA-XD20M		14.22
SL12/16	ML16-HANWHA-SL12/16	ML16	14.23

Hanwha XD10

+ 4 outils (max 10)
+ 4 Werkzeuge (max 10)
+ 4 tools (max 10)

ML12



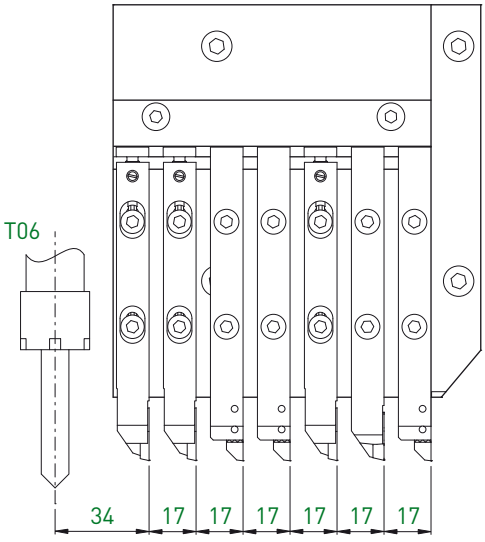


			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML12-HANWHA-XD10	ML12	> 14.77	-	ML12-JET-5/16	14.98

ML12

+ 2 outils (max 7)
+ 2 Werkzeuge (max 7)
+ 2 tools (max 7)

Hanwha XD20M

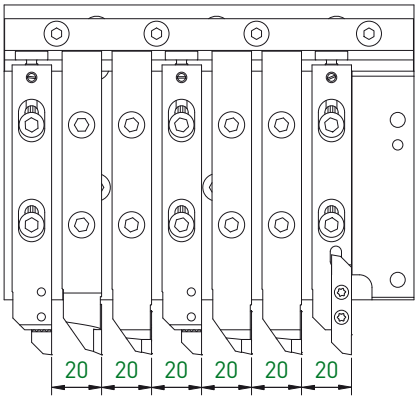


			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML12-HANWHA-XD20M	ML12	> 14.77	-	ML12-JET-5/16	14.98

Hanwha SL12 / 16

+ 1 outil (max 7)
+ 1 Werkzeug (max 7)
+ 1 tool (max 7)

ML16



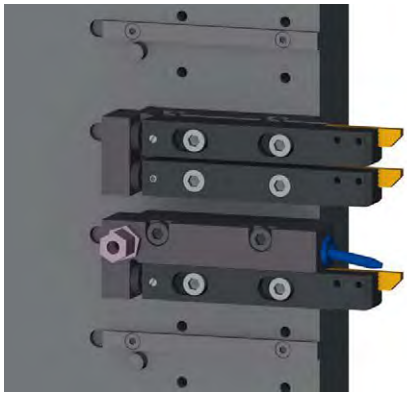
			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-HANWHA-SL12/16	ML16	> 14.77	–	ML16-JET-7/16	14.98

Manurhin

Machine Maschine Machine	Adaptations Anpassungen Adapters	Type Typ Type	Page Seite Page
KMX 426/526/626/ Swingg 20-26 MM	ML16-KMX26-JET	ML16	14.25
	ML16-KMX26-DUO		

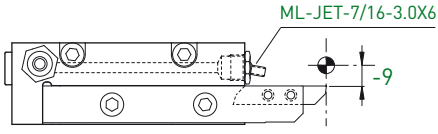
Manurhin **KMX 426/526/626**
Swing 20-26 MM

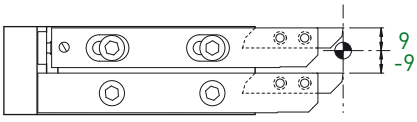
ML16



JET

DUO





JET

DUO

				Accessoires Zubehöre Accessories		
Type Typ Type	**Art. N°**	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
JET	**ML16-KMX26-JET**	ML16	> 14.77	–	**ML-JET-7/16...**	14.98
DUO	**ML16-KMX26-DUO**				**ML16-JET-7/16**	

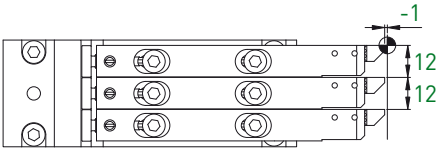
Metafil

Machine Maschine Machine	Adaptations Anpassungen Adapters	Type Typ Type	Page Seite Page
D3/D10/D13	ML12-D10-3T	ML12	14.27

D3
Metafil D10
D13

+ 1 outil (max 3)
+ 1 Werkzeug (max 3)
+ 1 tool (max 3)

ML12



			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML12-D10-3T	ML12	> 14.77	-	ML12-JET-5/16	14.98

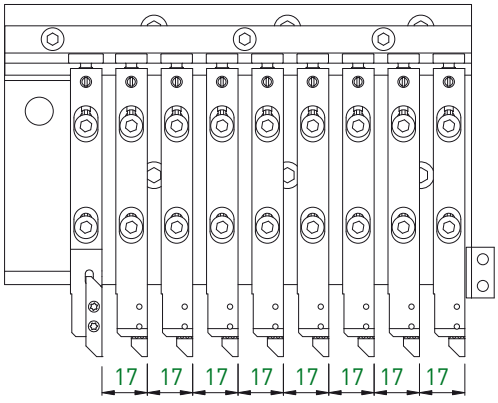
Star

Machine Maschine Machine	Adaptations Anpassungen Adapters	Type Typ Type	Page Seite Page
SB-12RG	ML12-STAR-SB-12RG	ML12	14.29
SL7/10	ML12-STAR-SL7/10		14.30
SR-10J	ML12-STAR-SR-10J		14.31
SW-12RII	ML12-STAR-SW-12RII-2T		14.32
	ML12-STAR-SW-12RII-8T		
SA-12/SA-16/SA-16R	ML16-STAR-SA-16	ML16	14.33
SB-16	ML16-STAR-SB-16		14.34
SB-16/20RG	ML16-STAR-SB-16/20RG		14.35
SB-20C/E	ML16-STAR-SB-20C/E		14.36
SR-16R/SR-20R/SR-20RII	ML16-STAR-SR-20R		14.37
SR-20J/SR-20RIII	ML16-STAR-SR-20J		14.38
	ML16-STAR-SR-20RIII		
SR-20JII-A/B	ML16-STAR-SR-20JII-A/B		14.39
SR-20RIV	ML16-STAR-SR-20RIV-2T		14.40
	ML16-STAR-SR-20RIV-6T		
SR-32J	ML16-STAR-SR-32J		14.41
SV-12/20	ML16-STAR-SV-12/20		14.42
SV-20R	ML16-STAR-SV-20R		14.43
SW-20	ML16-STAR-SW-20-2T		14.44
	ML16-STAR-SW-20-6T		

Star SB-12RG

+ 2 outils (max 9)
+ 2 Werkzeuge (max 9)
+ 2 tools (max 9)

ML12

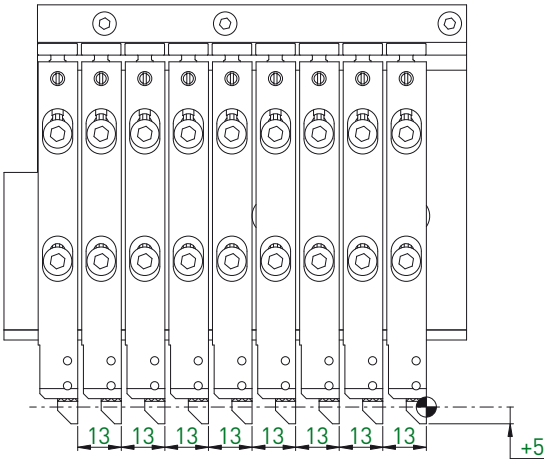


			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML12-STAR-SB-12RG	ML12	> 14.77	–	ML12-JET-5/16	14.98

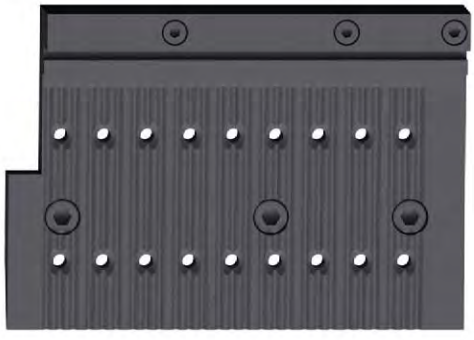
ML12

+ 3 outils (max 9)
+ 3 Werkzeuge (max 9)
+ 3 tools (max 9)

Star SL7/10



Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)

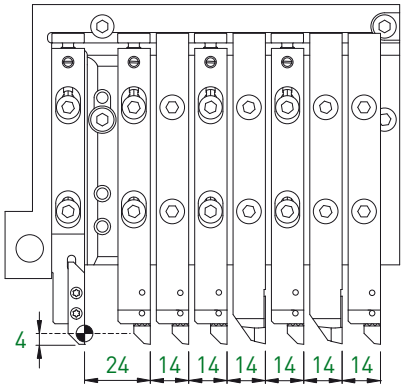


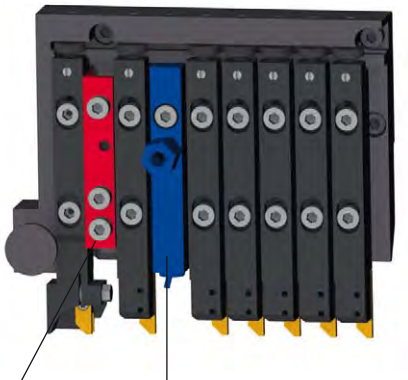
				Accessoires Zubehöre Accessories		
Type Typ Type	**Art. N°**	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
9T	**ML12-STAR-SL7/10**	ML12	> 14.77	–	ML12-JET-5/16	14.98

Star SR-10J

+ 2 outils (max 8)
+ 2 Werkzeuge (max 8)
+ 2 tools (max 8)

ML12





1 serrage ML12-FIX-12 pour outil ⍁ 12 mm inclus
1 Spannung ML12-FIX-12 für Werkzeug ⍁ 12 mm inbegriffen
1 clamping ML12-FIX-12 for tool ⍁ 12 mm included

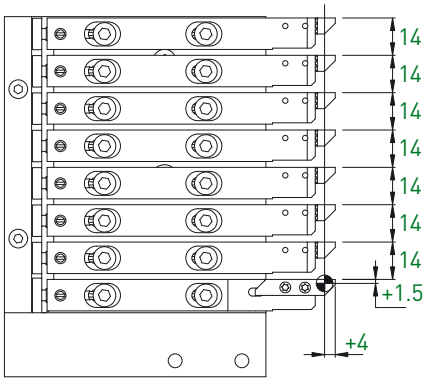
Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)

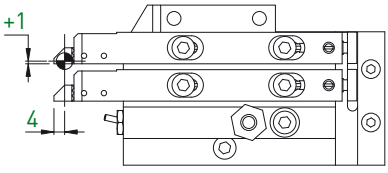
			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML12-STAR-SR-10J	ML12	> 14.77	**ML12-FIX-12/14**	**ML12-JET-5/16**	14.98

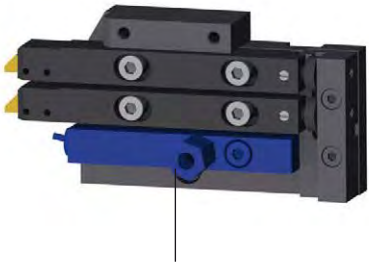
ML12

+ 2 outils (max 10)
+ 2 Werkzeuge (max 10)
+ 2 tools (max 10)

Star SW-12RII







Position uniquement utilisable avec module d'arrosage, en option
Position nur mit Kühlmittelzufuhrelement verwendbar, optional
Position only with coolant supply unit usable, optional

ML12-STAR-SW-12RII-8T

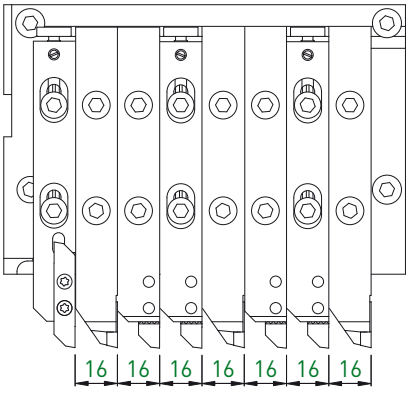
ML12-STAR-SW-12RII-2T

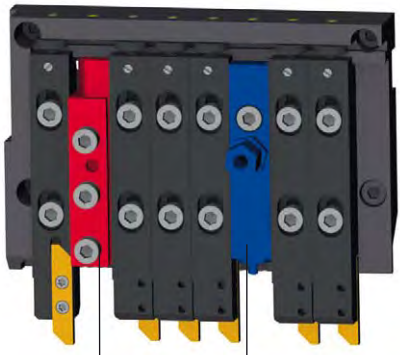
				Accessoires Zubehöre Accessories		
Type Typ Type	**Art. N°**	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
2T	**ML12-STAR-SW-12RII-2T**	ML12	> 14.77	–	ML12-JET-5/16	14.98
8T	**ML12-STAR-SW-12RII-8T**					

Star SA-12 SA-16 SA-16R

+ 2 outils (max 8)
+ 2 Werkzeuge (max 8)
+ 2 tools (max 8)

ML16





Outil ⍁ 16 mm possible avec module de serrage
Werkzeug ⍁ 16 mm mit Spannelement möglich
Tool ⍁ 16 mm possible with clamping unit

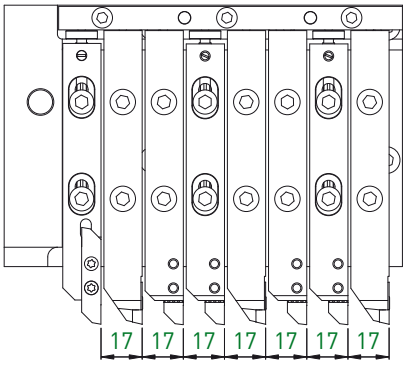
Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)

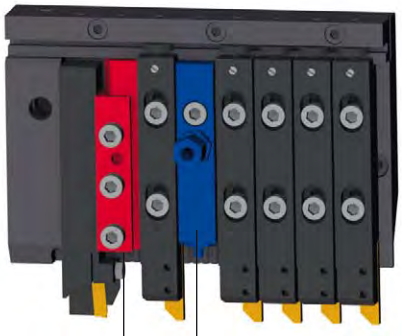
			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-STAR-SA-16	ML16	> 14.77	**ML16-FIX-16/16**	**ML16-JET-7/16**	14.98

ML16

+ 3 outils (max 8)
+ 3 Werkzeuge (max 8)
+ 3 tools (max 8)

Star SB-16





Outil ⍁ 16 mm possible avec module de serrage
Werkzeug ⍁ 16 mm mit Spannelement möglich
Tool ⍁ 16 mm possible with clamping unit

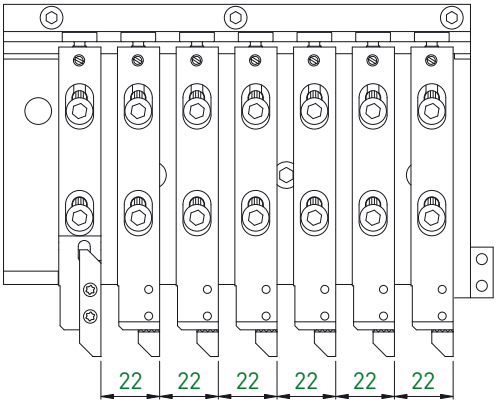
Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)

			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-STAR-SB-16	ML16	> 14.77	**ML16-FIX-16/17**	**ML16-JET-7/16**	14.98

Star SB-16/20RG

+ 1 outil (max 7)
+ 1 Werkzeug (max 7)
+ 1 tool (max 7)

ML16



Outil ⍁ 16 mm possible avec module de serrage
Werkzeug ⍁ 16 mm mit Spannelement möglich
Tool ⍁ 16 mm possible with clamping unit

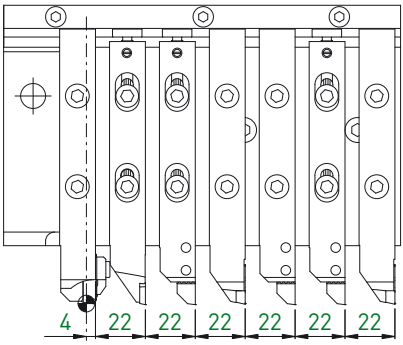
Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)

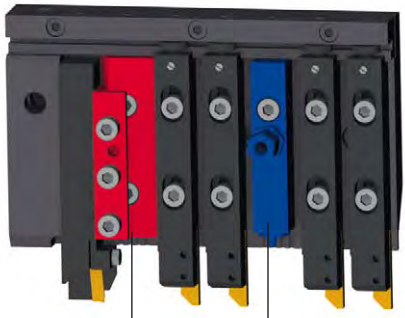
			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-STAR-SB-16/20RG	ML16	> 14.77	**ML16-FIX-16/22**	**ML16-JET-7/16**	14.98

ML16

+ 1 outil (max 7)
+ 1 Werkzeug (max 7)
+ 1 tool (max 7)

Star SB-20C/E





Outil ⍁ 16 mm possible avec module de serrage
Werkzeug ⍁ 16 mm mit Spannelement möglich
Tool ⍁ 16 mm possible with clamping unit

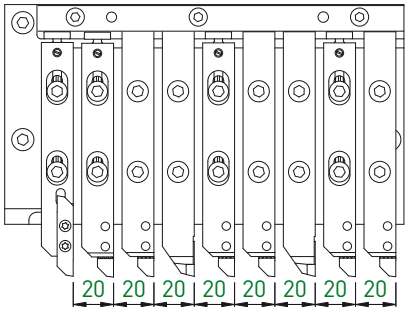
Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)

			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-STAR-SB-20C/E	ML16	> 14.77	**ML16-FIX-16/22**	**ML16-JET-7/16**	14.98

Star **SR-16R** **SR-20R** **SR-20RII**

+ 3 outils (max 9)
+ 3 Werkzeuge (max 9)
+ 3 tools (max 9)

ML16



Outil ⍁ 16 mm possible avec module de serrage
Werkzeug ⍁ 16 mm mit Spannelement möglich
Tool ⍁ 16 mm possible with clamping unit

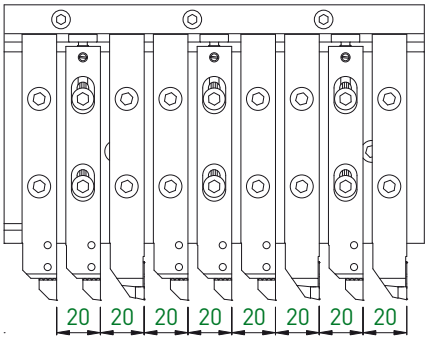
Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)

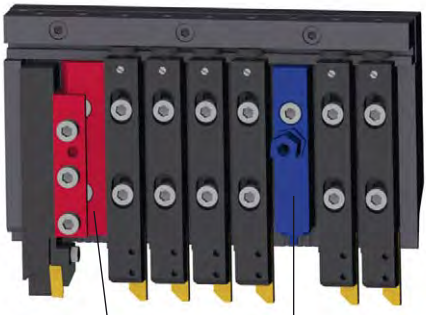
			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-STAR-SR-20R	ML16	> 14.77	**ML16-FIX-16/20**	**ML16-JET-7/16**	14.98

ML16

+ 3 outils (max 9)
+ 3 Werkzeuge (max 9)
+ 3 tools (max 9)

Star **SR-20RIII**
SR-20J





Outil ⍁ 16 mm possible avec module de serrage
Werkzeug ⍁ 16 mm mit Spannelement möglich
Tool ⍁ 16 mm possible with clamping unit

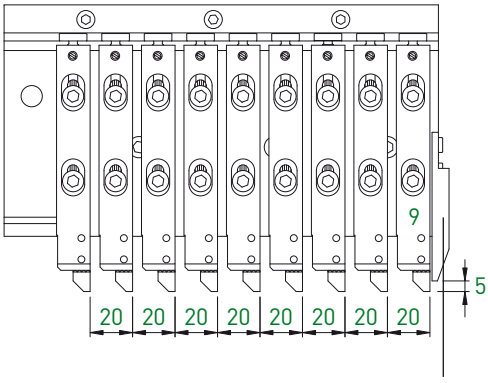
Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)

Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Accessoires Zubehöre Accessories: Module de serrage Spannelement Clamping unit	Accessoires Zubehöre Accessories: Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-STAR-SR-20RIII	ML16	> 14.77	**ML16-FIX-16/20**	**ML16-JET-7/16**	14.98
ML16-STAR-SR-20J					

Star SR20JII type A/B

+ 3 outils (max 9)
+ 3 Werkzeuge (max 9)
+ 3 tools (max 9)

ML16



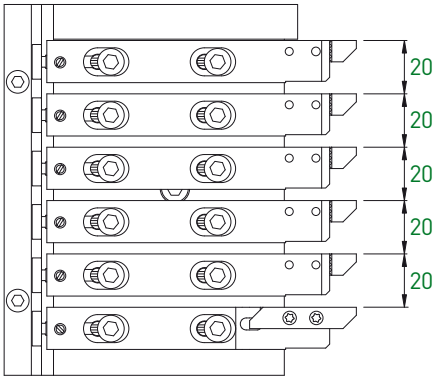
Risque de collision avec outil n° 9
Kollisionsrisiko mit Werkzeug Nr. 9
Collision risk with tool no. 9

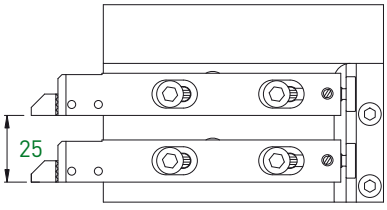
			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-STAR-SR-20JII-A/B	ML16	> 14.77	**ML16-FIX-16/20**	**ML16-JET-7/16**	14.98

ML16

+ 1 outil (max 8)
+ 1 Werkzeug (max 8)
+ 1 tool (max 8)

Star SR-20RIV



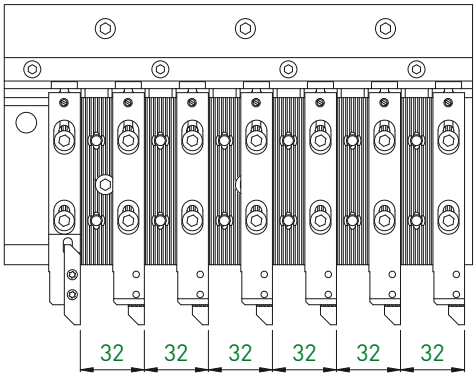


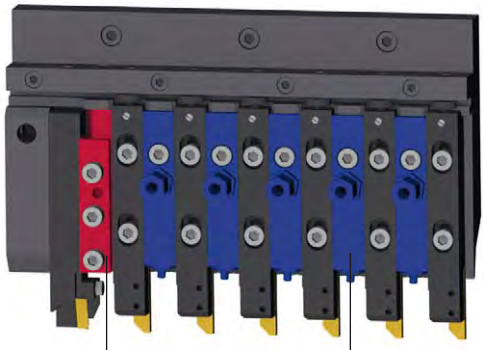
ML16-STAR-SR-20RIV-6T

ML16-STAR-SR-20RIV-2T

				Accessoires Zubehöre Accessories		
Type Typ Type	**Art. N°**	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
2T	**ML16-STAR-SR-20RIV-2T**	ML16	> 14.77	–	ML16-JET-7/16	14.98
6T	**ML16-STAR-SR-20RIV-6T**					

Star SR-32J | **Ø max 32 mm** | **+ 1 outil (max 7)** + 1 Werkzeug (max 7) + 1 tool (max 7) | **Ø max 16 mm** | **+ 7 outils (max 13)** + 7 Werkzeuge (max 13) + 7 tools (max 13) | **ML16**





Outil ⍁ 16 mm possible avec module de serrage
Werkzeug ⍁ 16 mm mit Spannelement möglich
Tool ⍁ 16 mm possible with clamping unit

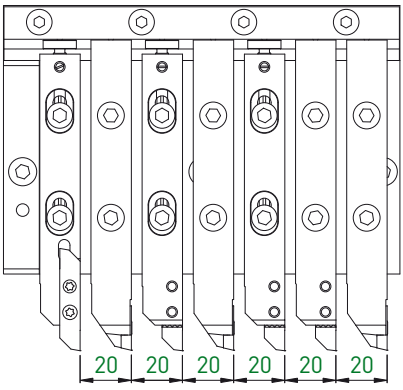
Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)

			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-STAR-SR-32J	ML16	> 14.77	**ML16-FIX-16/16**	**ML16-JET-7/16**	14.98

ML16

+ 2 outils (max 7)
+ 2 Werkzeuge (max 7)
+ 2 tools (max 7

Star SV-12 / 20



Outil ⍁ 16 mm possible avec module de serrage
Werkzeug ⍁ 16 mm mit Spannelement möglich
Tool ⍁ 16 mm possible with clamping unit

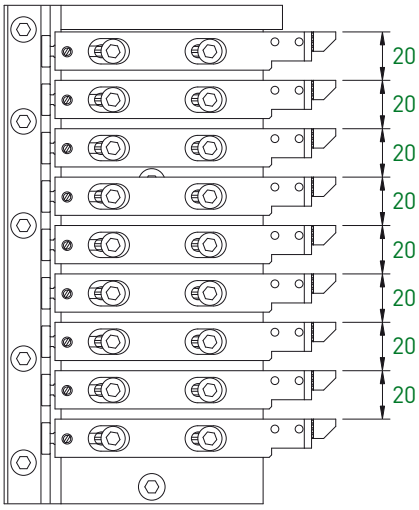
Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)

			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-STAR-SV-12/20	ML16	> 14.77	**ML16-FIX-16/20**	**ML16-JET-7/16**	14.98

Star SV-20R

+ 2 outils (max 9)
+ 2 Werkzeuge (max 9)
+ 2 tools (max 9)

ML16

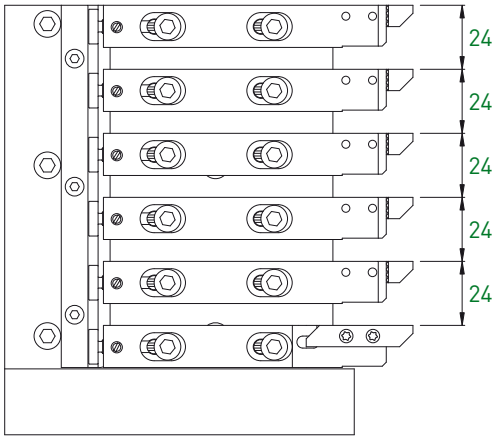


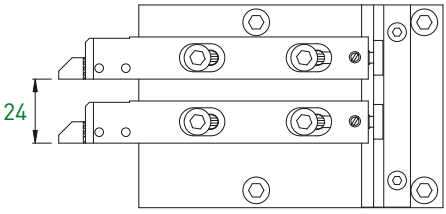
			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-STAR-SV-20R	ML16	> 14.77	**ML16-FIX-16/20**	**ML16-JET-7/16**	14.98

ML16

+ 1 outil (max 8)
+ 1 Werkzeug (max 8)
+ 1 tool (max 8)

Star SW-20





ML16-STAR-SW-20-6T

ML16-STAR-SW-20-2T

Star SW-20

+ 1 outil (max 8)
+ 1 Werkzeug (max 8)
+ 1 tool (max 8)

ML16

ML16-STAR-SW-20-6T

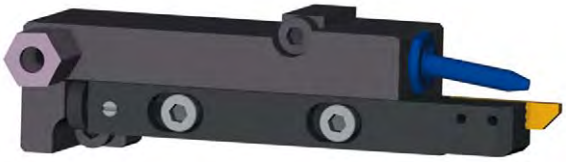
ML16-STAR-SW-20-2T

				Accessoires Zubehöre Accessories		
Type Typ Type	**Art. N°**	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
2T	**ML16-STAR-SW-20-2T**	ML16	> 62	–	ML16-JET-7/16	14.98
6T	**ML16-STAR-SW-20-6T**			ML16-FIX-16/24		

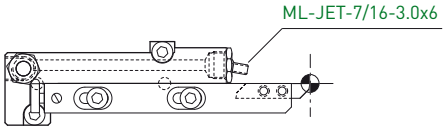
Tornos

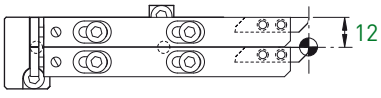
Machine Maschine Machine	Adaptations Anpassungen Adapters	Type Typ Type	Page Seite Page
DECO7/10 - EvoDECO 10	ML12-DECO10-DUO	ML12	14.47
	ML12-DECO10-JET		
SWISS-NANO /SWISS-NANO 7	ML12-SWISS-NANO-2T		14.50
	ML12-SWISS-NANO-3T		
	ML12-SWISS-NANO-6T		14.48
SWISS-NANO 7	ML12-SWISS-NANO-7-4T		14.51
DT13	ML-DT13-2052104-9T		14.52
	ML12-DT13-2020206-9T		
CT20	ML12-CT20-2020019-7T		14.53
GT13	ML12-GT13-389104-3T		14.54
	ML12-GT13-390224-5T		
	ML12-GT13-390223-7T		
GT26	ML16-GT26-386210-5T	ML16	14.56
	ML16-GT26-386209-6T		
GT32	ML16-GT32-389210-4T		14.58
	ML16-GT32-389209-5T		
DECO13- EvoDECO16	ML16-DECO13-DUO		14.60
	ML16-DECO13-JET		
DECO20/26 - EvoDECO20/32	ML16-DECO20-DUO		14.61
	ML16-DECO20-JET		
SIGMA20/32	ML16-S20-DUO		14.62
	ML16-S20-JET		
SWISS ST26	ML16-SWISS-ST26-DUO		14.63
	ML16-SWISS-ST26-JET		
DT26	ML16-DT26-2020206-7T		14.64
	ML16-DT26-2052096-5T		14.65

JET



DUO





JET

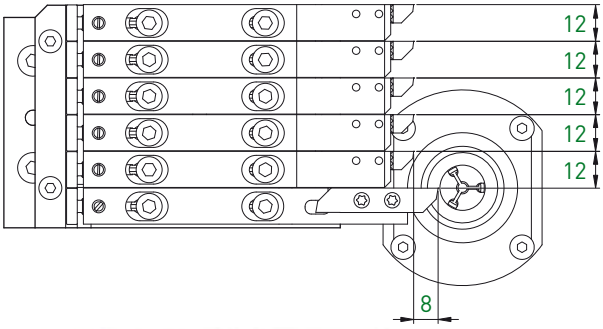
DUO

				Accessoires Zubehöre Accessories		
Type Typ Type	**Art. N°**	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
JET	**ML12-DECO10-JET**	ML12	> 14.77	–	**ML-JET-7/16...**	14.98
DUO	**ML12-DECO10-DUO**				**ML12-JET-5/16**	

ML12

+ 2 outils (max 6)
+ 2 Werkzeuge (max 6)
+ 2 tools (max 6)

Tornos **SwissNano**
SwissNano 7



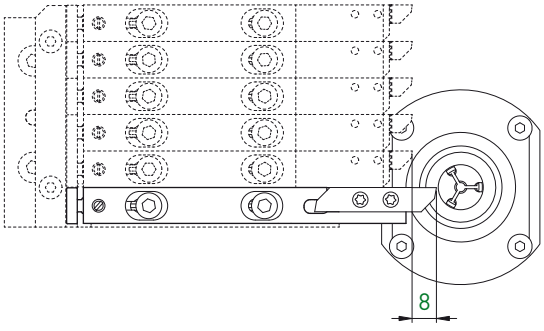
6T

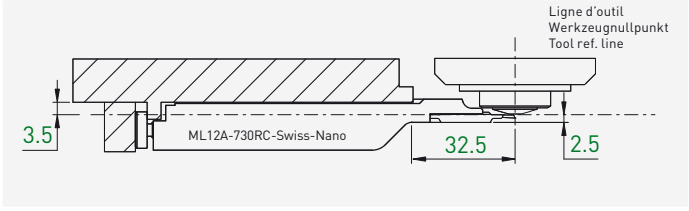
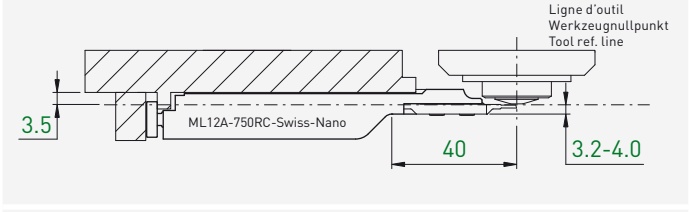
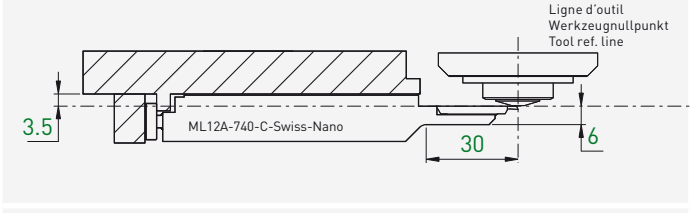
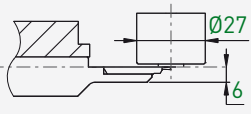
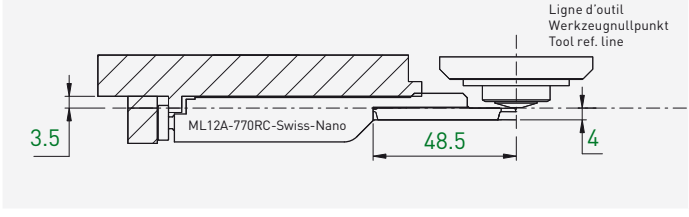
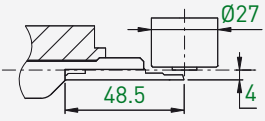
6T

				Accessoires Zubehöre Accessories		
Type Typ Type	**Art. N°**	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
6T	**ML12-SWISS-NANO-6T**	ML12	> 14.77	–	ML12-JET-5/16	14.98

ML12

Tornos **SwissNano**
SwissNano 7

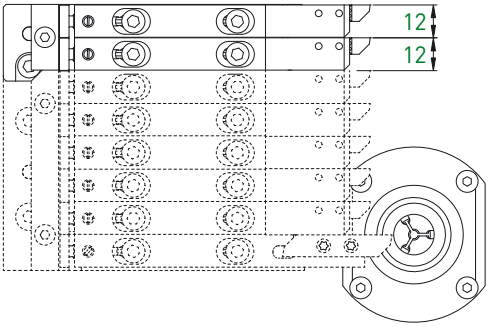


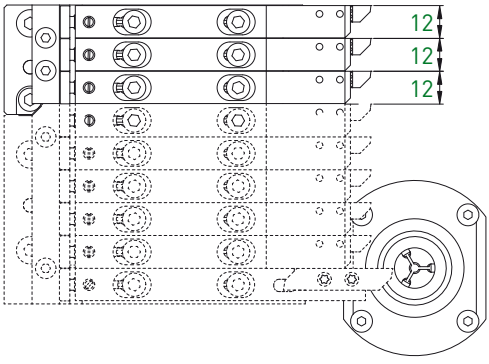
avec canon mit Führungsbuchse with guide bush	avec pince mit Spannzange with collet
	—
	—
	
	

Type de machine Maschinen-Typ Type of machine	Porte-outils Halter Holders	**Art. N°**	Plaquettes Wendeplatten Inserts	Pages Seiten Pages
SwissNano	ML12	**ML12A-730RC-SWISS-NANO**	731R... / 731RSF	> TOP-Line TOP-Watch
		ML12A-750RC-SWISS-NANO	751R... / 751RDSF	
		ML12A-740-C-SWISS-NANO	741... / 741SF	
		ML12A-770RC-SWISS-NANO	771R...	> TOP-Line

ML12

Tornos SwissNano
SwissNano 7

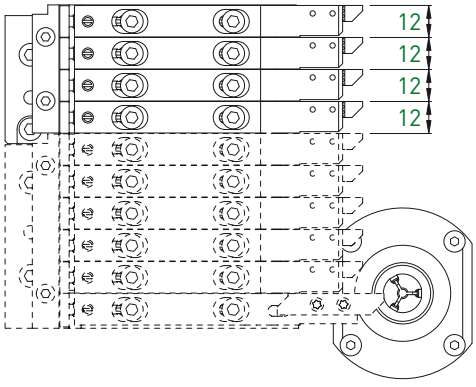




2T

3T

				Accessoires Zubehöre Accessories		
Type Typ Type	**Art. N°**	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
2T	**ML12-SWISS-NANO-2T**	ML12	> 14.77	–	ML12-JET-5/16	14.98
3T	**ML12-SWISS-NANO-3T**					

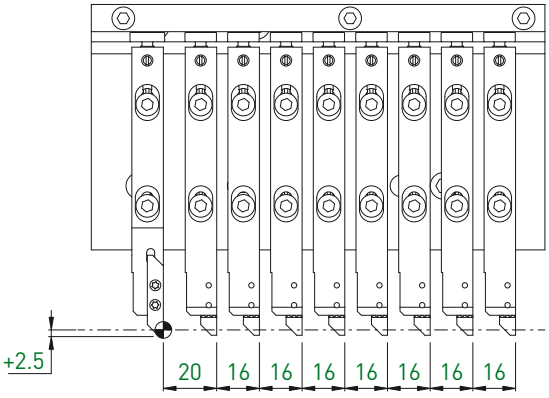


				Accessoires Zubehöre Accessories		
Type Typ Type	**Art. N°**	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
4T	**ML12-SWISS-NANO-7-4T**	ML12	> 14.77	–	ML12-JET-5/16	14.98

ML12

+ 3 outils (max 9)
+ 3 Werkzeuge (max 9)
+ 3 tools (max 9)

Tornos **DT 13**
DT 13 (S-HP)

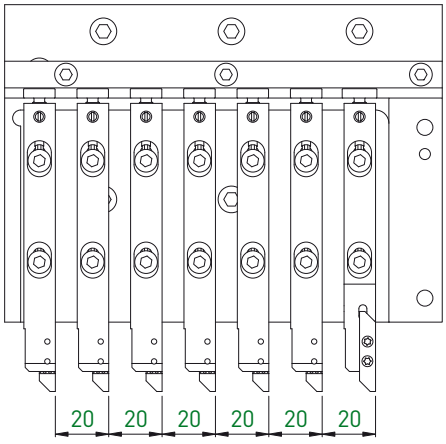


				Accessoires Zubehöre Accessories			
Type Typ Type	**Art. N°**	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page	Type machine Maschinentyp Machine type
9T	**ML12-DT13-2020206-9T**	ML12	> 14.77	–	ML12-JET-5/16	14.98	DT 13
9T	**ML12-DT13-2052104-9T**	ML12	> 14.77	–	ML12-JET-5/16	14.98	DT 13 (S-HP)

Tornos CT 20

+ 1 outil (max 7)
+ 1 Werkzeug (max 7)
+ 1 tool (max 7)

ML12

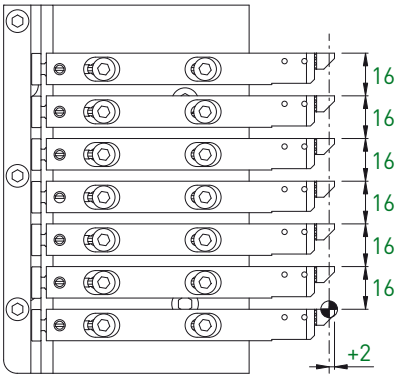


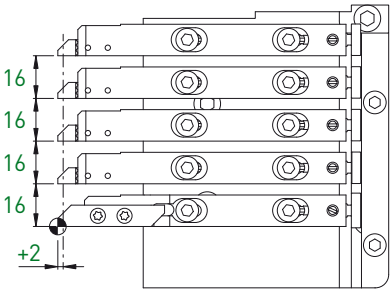
				Accessoires Zubehöre Accessories		
Type Typ Type	**Art. N°**	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
7T	**ML12-CT20-2020019-7T**	ML12	> 14.77	–	ML12-JET-5/16	14.98

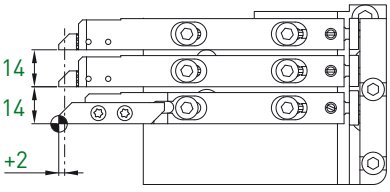
ML12

+ 5 outils (max 12)
+ 5 Werkzeuge (max 12)
+ 5 tools (max 12)

Tornos GT 13







ML12-GT13-390223-7T

ML12-GT13-390224-5T

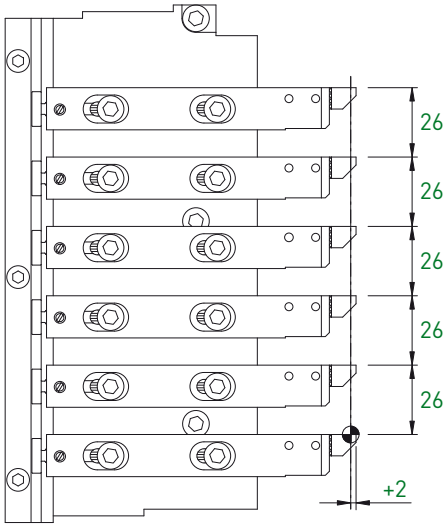
ML12-GT13-389104-3T

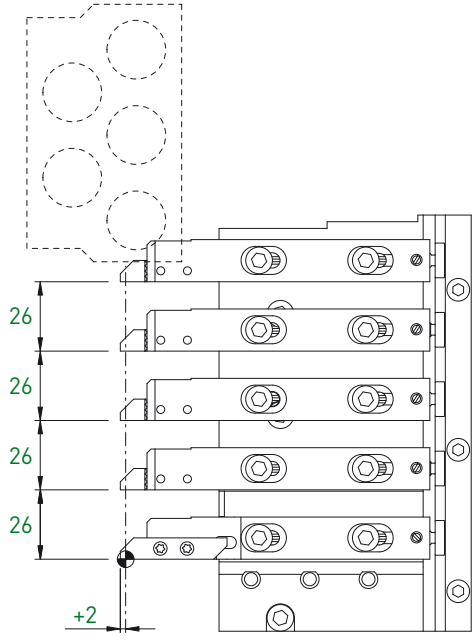
				Accessoires Zubehöre Accessories		
Type Typ Type	**Art. N°**	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
3T	**ML12-GT13-389104-3T**	ML12	> 14.77	–	ML12-JET-5/16	14.98
5T	**ML12-GT13-390224-5T**					
7T	**ML12-GT13-390223-7T**					

ML16

+ 2 outils (max 11)
+ 2 Werkzeuge (max 11)
+ 2 tools (max 11)

Tornos GT 26





1 serrage ML16-FIX-16 pour outil ⍁ 16 mm inclus
1 Spannung ML16-FIX-16 für Werkzeug ⍁ 16 mm inbegriffen
1 clamping ML16-FIX-16 for tool ⍁ 16 mm included

ML16-GT26-386209-6T

ML16-GT26-386210-5T

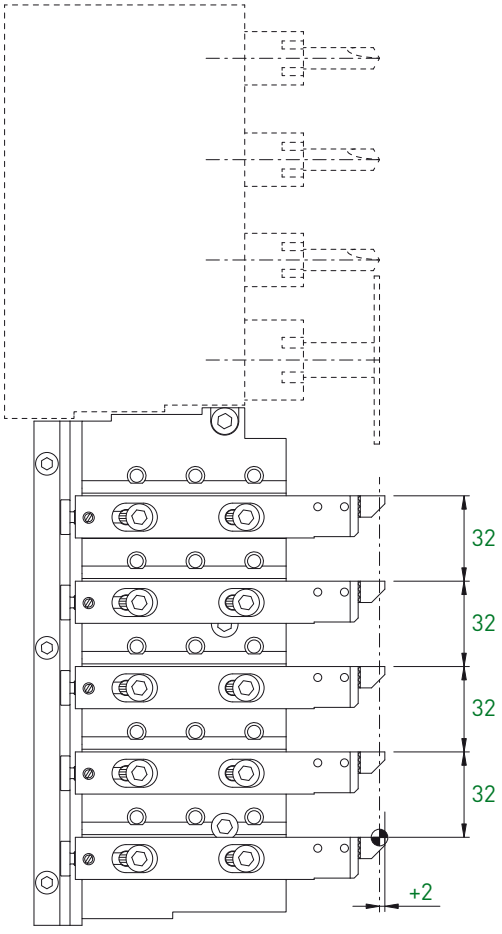
				Accessoires Zubehöre Accessories		
Type Typ Type	**Art. N°**	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
5T	**ML16-GT26-386210-5T**	ML16	> 14.77	–	ML16-JET-7/16	14.98
6T	**ML16-GT26-386209-6T**					

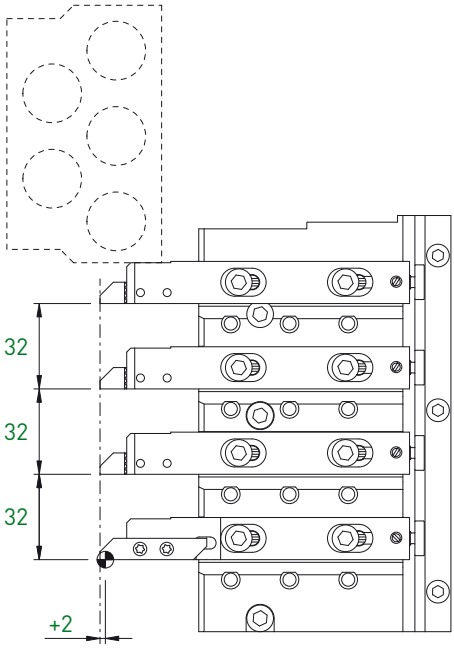
ML16

max

+ 9 outils
+ 9 Werkzeuge
+ 9 tools

Tornos GT 32





Holder ML16

Holder ⎅16

Holder ML16

Holder ⎅16

ML16-GT32-386209-5T

ML16-GT32-386210-4T

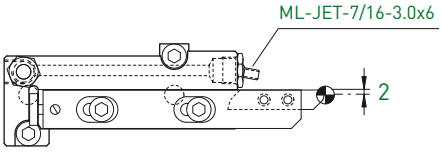
				Accessoires Zubehöre Accessories			
Type Typ Type	**Art. N°**	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit		Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Pages Seiten Pages
4T	**ML16-GT32-386210-4T**	ML16	> 14.77	**1x inclus 1x inbegriffen 1x included**	**Option ML16-FIX-16**	**ML16-JET-7/16**	14.98
5T	**ML16-GT32-386209-5T**						

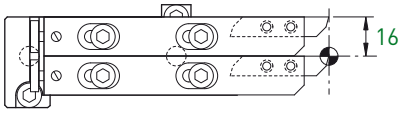
ML16

Tornos DECO 13
EvoDECO 16

JET

DUO





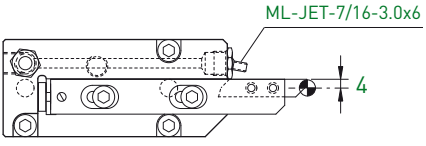
JET

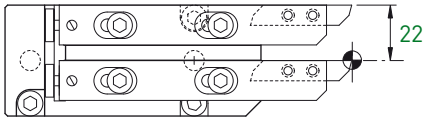
DUO

				Accessoires Zubehöre Accessories		
Type Typ Type	**Art. N°**	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
JET	**ML16-DECO13-JET**	ML16	> 14.77	–	**ML-JET-7/16...**	14.98
DUO	**ML16-DECO13-DUO**				**ML16-JET-7/16**	14.98

JET

DUO





JET

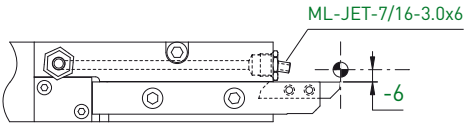
DUO

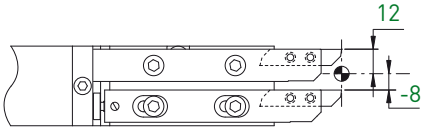
				Accessoires Zubehöre Accessories		
Type Typ Type	**Art. N°**	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
JET	**ML16-DECO20-JET**	ML16	> 14.77	–	**ML-JET-7/16...**	14.98
DUO	**ML16-DECO20-DUO**				**ML16-JET-7/16**	14.98

ML16

JET

DUO





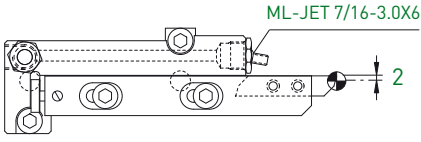
JET

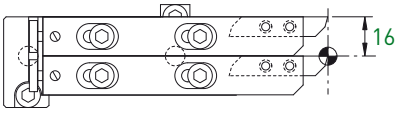
DUO

				Accessoires Zubehöre Accessories		
Type Typ Type	**Art. N°**	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
JET	**ML16-S20-JET**	ML16	> 14.77	–	**ML-JET-7/16...**	14.98
DUO	**ML16-S20-DUO**				**ML16-JET-7/16**	14.98

JET

DUO





JET

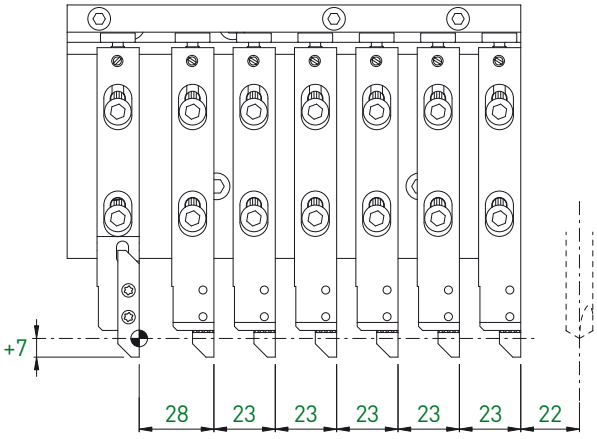
DUO

				Accessoires Zubehöre Accessories		
Type Typ Type	**Art. N°**	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
JET	**ML16-SWISS-ST26-JET**	ML16	> 14.77	–	ML-JET-7/16...	14.98
DUO	**ML16-SWISS-ST26-DUO**				ML16-JET-7/16	14.98

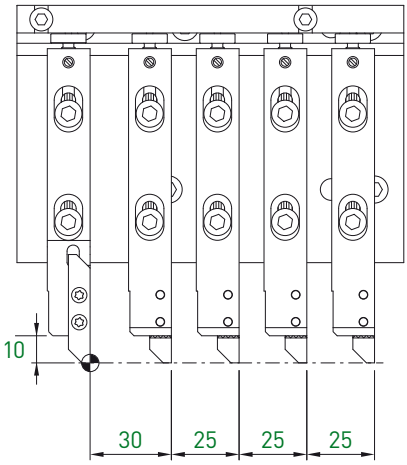
ML16

+ 1 outil (max 7)
+ 1 Werkzeug (max 7)
+ 1 tool (max 7)

Tornos DT 26



				Accessoires Zubehöre Accessories		
Type Typ Type	**Art. N°**	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
7T	**ML16-DT26-2020206-7T**	ML16	> 14.77	–	ML16-JET-7/16	14.98



				Accessoires Zubehöre Accessories		
Type Typ Type	**Art. N°**	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
5T	**ML16-DT26-2052096-5T**	ML16	> 14.77	–	ML16-JET-7/16	14.98

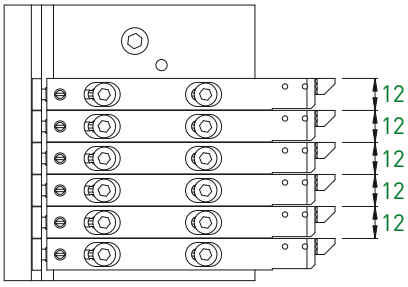
Tsugami

Machine Maschine Machine	Adaptations Anpassungen Adapters	Type Typ Type	Page Seite Page
B074	ML12-B074-1-6T	ML12	14.67
B075	ML12-B075-1-8T		14.68
P034	ML12-P034-1-5T		14.69
	ML12-P034-1-7T		14.70
	ML12-P034-2-4T		14.69
	ML12-P034-2-10T		14.70
P034-P036	0400-ML12-R0000C-3T		14.72
	0400-ML12-R0000C-5T		14.73

Tsugami B074

+ 3 outils (max 6)
+ 3 Werkzeuge (max 6)
+ 3 tools (max 6)

ML12

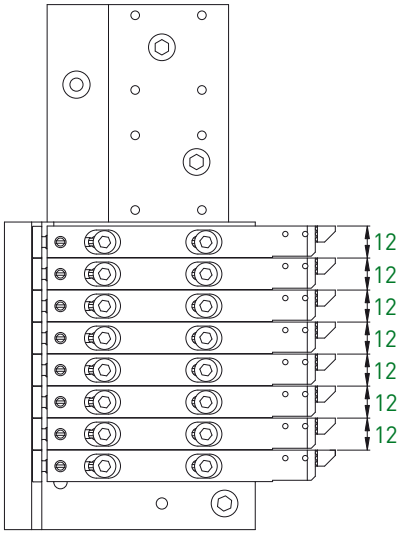


				Accessoires Zubehöre Accessories		
Type Typ Type	**Art. N°**	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
6T	**ML12-B074-1-6T**	ML12	> 14.77	–	ML12-JET-5/16	14.98

ML12

+ 5 outils (max 8)
+ 5 Werkzeuge (max 8)
+ 5 tools (max 8)

Tsugami B075

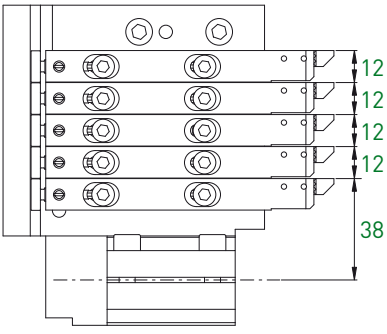


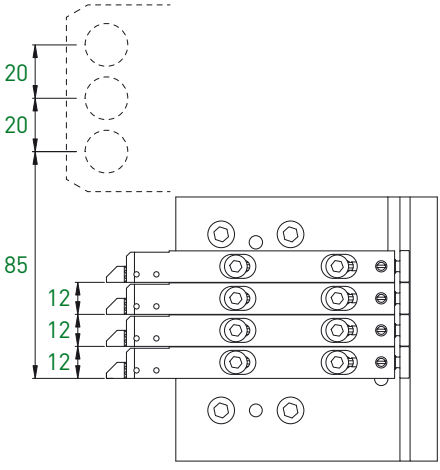
				Accessoires Zubehöre Accessories		
Type Typ Type	**Art. N°**	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
8T	**ML12-B075-1-8T**	ML12	> 14.77	–	ML12-JET-5/16	14.98

Tsugami P034

+ 3 outils (max 9)
+ 3 Werkzeuge (max 9)
+ 3 tools (max 9)

ML12





ML12-P034-1-5T

ML12-P034-2-4T

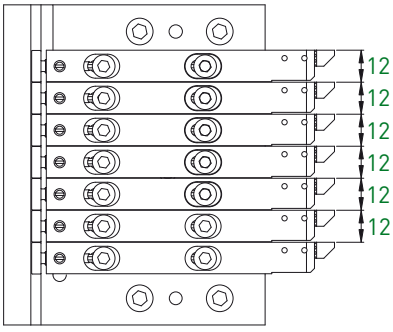
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Accessoires Zubehöre Accessories Module de serrage Spannelement Clamping unit	Accessoires Zubehöre Accessories Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
4T	**ML12-P034-2-4T**	ML12	> 14.77	–	ML12-JET-5/16	14.98
5T	**ML12-P034-1-5T**					

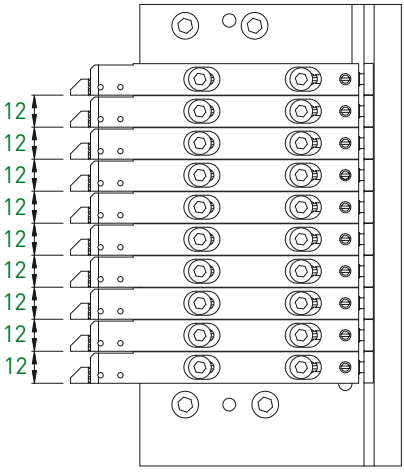
ML12

max

+ 17 outils
+ 17 Werkzeuge
+ 17 tools

Tsugami P034





ML12-P034-1-7T

ML12-P034-2-10T

ML12-P034-1-7T

ML12-P034-2-10T

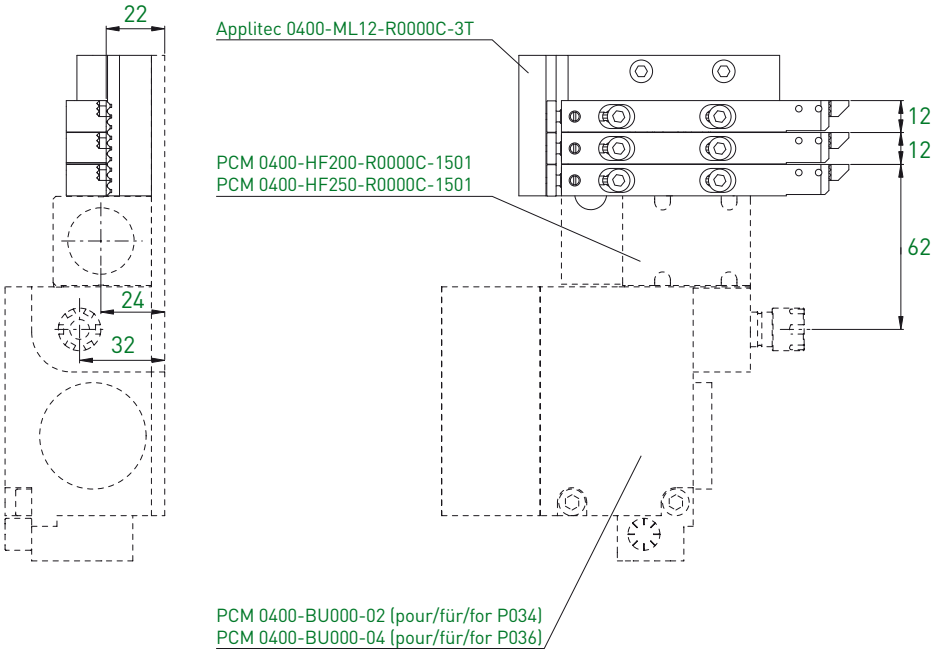
				Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
7T	**ML12-P034-1-7T**	ML12	> 14.77	–	ML12-JET-5/16	14.98
10T	**ML12-P034-2-10T**					

ML12

Adaptation compatible aux modules PCM
Kompatible Anpassung für die PCM-Module
Compatible adaptation to the PCM modules

+ 1 outil
+ 1 Werkzeug
+ 1 tool

Tsugami P034-P036



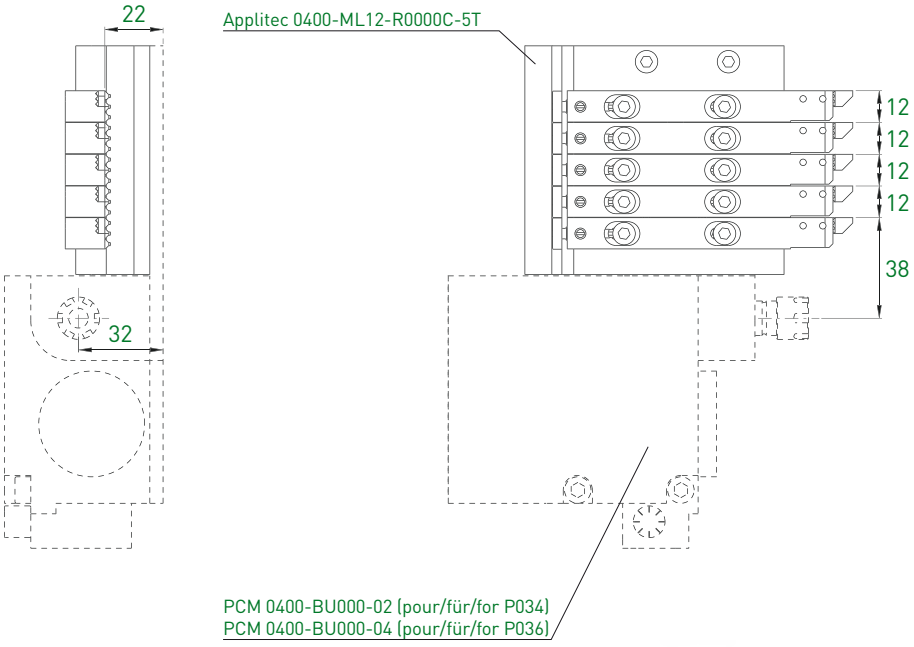
				Accessoires Zubehöre Accessories		
Type Typ Type	**Art. N°**	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
3T	**0400-ML12-R0000C-3T**	ML12	> 14.77	–	ML12-JET-5/16	14.98

Tsugami P034-P036

Adaptation compatible aux modules PCM
Kompatible Anpassung für die PCM-Module
Compatible adaptation to the PCM modules

+ 1 outil
+ 1 Werkzeug
+ 1 tool

ML12

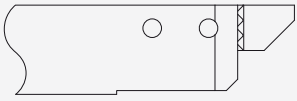


				Accessoires Zubehöre Accessories		
Type Typ Type	**Art. N°**	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
5T	**0400-ML12-R0000C-5T**	ML12	> 14.77	–	ML12-JET-5/16	14.98

Les différents types de porte-outils ML12 / ML16
Die verschiedenen Haltertypen ML12 / ML16
The various types of holders ML12 / ML16

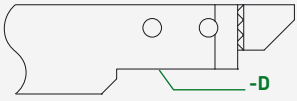
Type Standard

ML...A-740



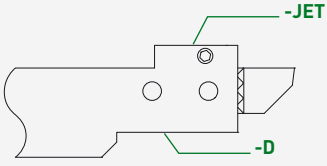
Type -D

ML...A-740-**D**



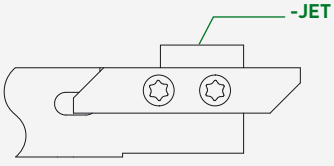
Type -JET-D

ML...A-740-**JET-D**



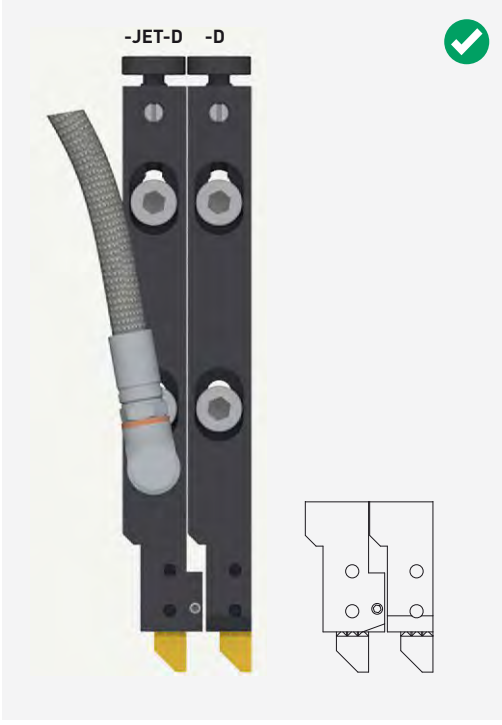
Type -JET

ML...A-740-**JET**



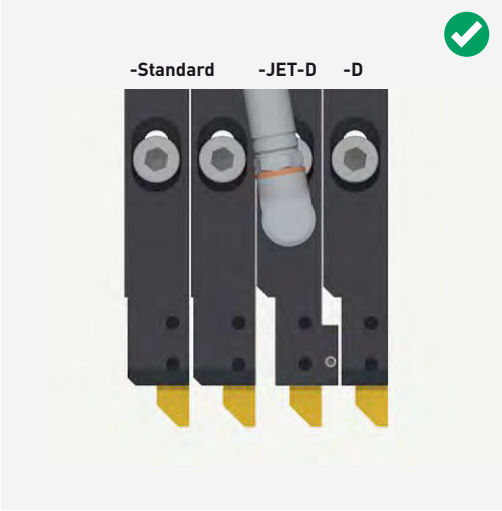
Compatibilité
Kompatibilität
Compatibility

OK

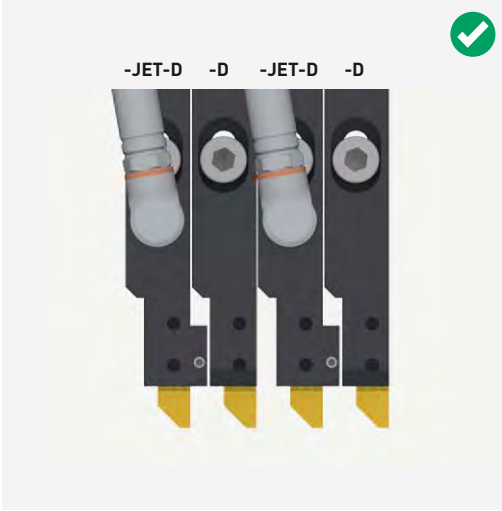


NOT OK

MIX



TYPE D



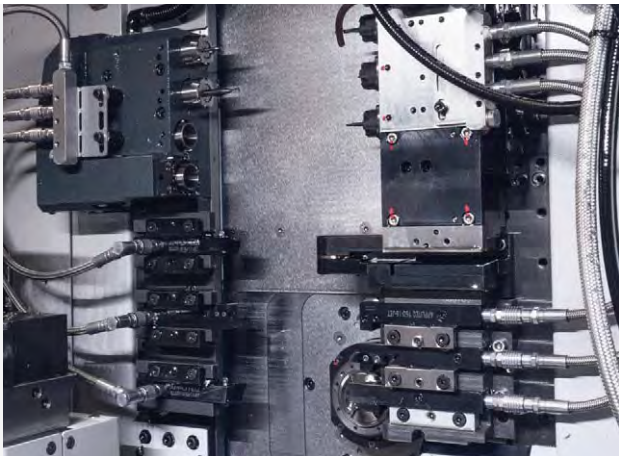
Exceptions
Ausnahmen
Exceptions

Exception ML12	Exception ML16
⩾ 15 mm = Total compatibility	⩾ 20 mm = Total compatibility

JET-Line:
Système de distribution du liquide de refroidissement pour haute pression
Voir chapitre JET-Line

JET-Line:
Kühlmittelverteilungssystem für hohen Druck
Siehe Kapitel JET-Line

JET-Line:
Coolant distribution system for high pressure
See chapter JET-Line

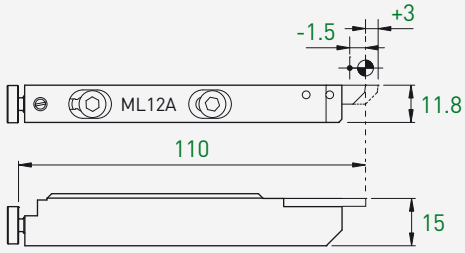


Porte-outils
Halter
Holders

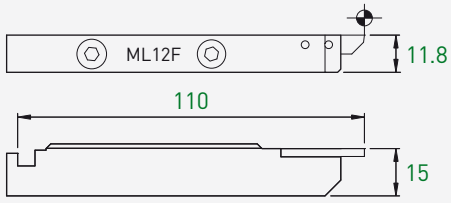
ML12 / ML16

Système de fixation Befestigungssystem Clamping system	
A = réglable einstellbar adjustable	**F** = longueur fixe fixlänge fixed length

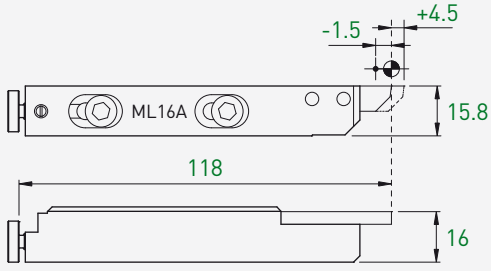
ML12A



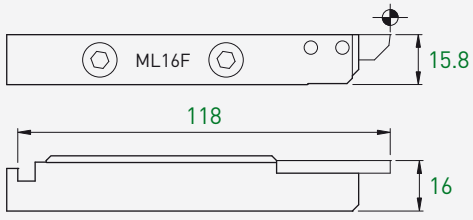
ML12F

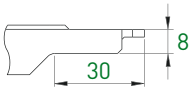


ML16A



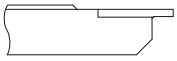
ML16F





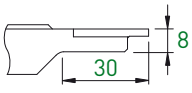
TOP-Line
731-737

	-D	
Art. N°	**Art. N°**	**Art. N°**
ML12	**ML12**	**ML12**
-	**ML12A-730-C-D**	-



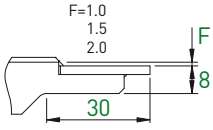
TOP-Line
741-747

Standard	-D	-JET-D
ML12	**ML12**	**ML12**
ML12A-740	**ML12A-740-D**	**ML12A-740-JET-D**
ML12F-740	**ML12F-740-D**	-
ML16	**ML16**	**ML16**
ML16A-740	**ML16A-740-D**	**ML16A-740-JET-D**
ML16F-740	-	-



TOP-Line
741-747

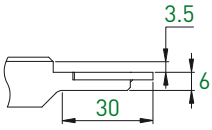
ML12	**ML12**	**ML12**
ML12A-740-C	**ML12A-740-C-D**	**ML12A-740-C-JET-D**
ML12F-740-C	**ML12F-740-C-D**	-



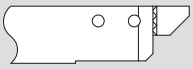
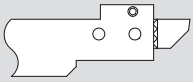
TOP-Line
741-747

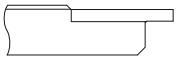
ML12	**ML12**	**ML12**
ML12A-740-ZD1.0-C	-	-
ML12A-740-ZD1.5-C	-	-
ML12A-740-ZD2.0-C	-	-

Porte-plaquettes
WSP-Halter
Insert holders



TOP-Line
741

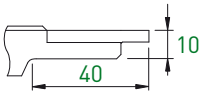
Standard	-D	-JET-D
		
Art. N°	**Art. N°**	**Art. N°**
ML12	**ML12**	**ML12**
ML12A-740-C-R04	**-**	**-**
ML12A-740-C-SWISS-NANO	**-**	**-**



TOP-Line
761-767

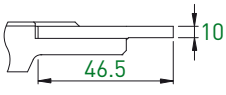
ML12	ML12	ML12
ML12A-760	**ML12A-760-D**	**ML12A-760-JET-D**
ML12F-760	**ML12F-760-D**	**-**

ML16	ML16	ML16
ML16A-760	**ML16A-760-D**	**ML16A-760-JET-D**
ML16F-760	**-**	**-**



TOP-Line
761-767

ML16	ML16	ML16
ML16A-760-C	**ML16A-760-C-D**	**-**
ML16F-760-C	**-**	**-**

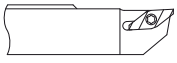


TOP-Line
781

ML16	ML16	ML16
-	**ML16A-780-C-D**	**-**

TURN-Line

Porte-plaquettes
WSP-Halter
Insert holders



TURN-Line
347-349

Standard	-D	-JET-D
Art. N°	Art. N°	Art. N°
ML12	**ML12**	**ML12**
ML12A-340	ML12A-340-D	ML12A-340-JET-D
ML12F-340	ML12F-340-D	-
ML16	**ML16**	**ML16**
ML16A-340	ML16A-340-D	ML16A-340-JET-D
ML16F-340	-	-

ISO-Line

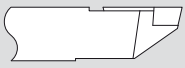
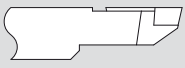
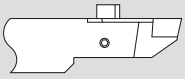
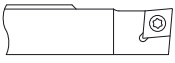
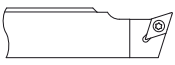
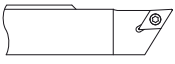
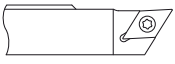
Porte-plaquettes
WSP-Halter
Insert holders

80°

ISO-Line
CC..-0602..

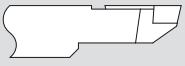
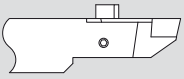
Standard	-D	-JET-D
Art. N°	Art. N°	Art. N°
ML12	**ML12**	**ML12**
ML12A-SCLCR06	ML12A-SCLCR06-D	ML12A-SCLCR06-JET-D
ML12F-SCLCR06	ML12F-SCLCR06-D	-
ML16	**ML16**	**ML16**
ML16A-SCLCR06	ML16A-SCLCR06-D	ML16A-SCLCR06-JET-D
ML16F-SCLCR06	ML16F-SCLCR06-D	-

Porte-plaquettes
WSP-Halter
Insert holders

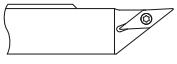
	Standard	-D	-JET-D
			
	Art. N°	**Art. N°**	**Art. N°**
	ML12	**ML12**	**ML12**
80° 	**ML12A-SCLCR09**	**ML12A-SCLCR09-D**	**ML12A-SCLCR09-JET-D**
	ML12F-SCLCR09	**ML12F-SCLCR09-D**	**-**
	ML16	**ML16**	**ML16**
ISO-Line CC..-09T3..	**ML16A-SCLCR09**	**ML16A-SCLCR09-D**	**ML16A-SCLCR09-JET-D**
	ML16F-SCLCR09	**ML16F-SCLCR09-D**	**-**
55° 			
	ML16	**ML16**	**ML16**
ISO-Line DC..-0702..	**ML16A-SDHCR07**	**-**	**ML16A-SDHCR07-JET-D**
	ML12	**ML12**	**ML12**
55° 	**ML12A-SDJCR07**	**ML12A-SDJCR07-D**	**ML12A-SDJCR07-JET-D**
	ML12F-SDJCR07	**ML12F-SDJCR07-D**	**-**
	ML16	**ML16**	**ML16**
ISO-Line DC..-0702..	**ML16A-SDJCR07**	**ML16A-SDJCR07-D**	**ML16A-SDJCR07-JET-D**
	ML16F-SDJCR07	**ML16F-SDJCR07-D**	**-**
	ML12	**ML12**	**ML12**
55° 	**ML12A-SDJCR11**	**ML12A-SDJCR11-D**	**ML12A-SDJCR11-JET-D**
	ML12F-SDJCR11	**ML12F-SDJCR11-D**	**-**
	ML16	**ML16**	**ML16**
ISO-Line DC..-11T3..	**ML16A-SDJCR11**	**ML16A-SDJCR11-D**	**ML16A-SDJCR11-JET-D**
	ML16F-SDJCR11	**ML16F-SDJCR11-D**	**-**

55°

ISO-Line
DC..-11T3..

Standard	-D	-JET-D
		
Art. N°	**Art. N°**	**Art. N°**
ML12	**ML12**	**ML12**
ML12A-SDNCN11	**ML12A-SDNCN11-D**	**-**
ML12F-SDNCN11	**ML12F-SDNCN11-D**	**-**
ML16	**ML16**	**ML16**
ML16A-SDNCN11	**ML16A-SDNCN11-D**	**-**
ML16F-SDNCN11	**ML16F-SDNCN11-D**	**-**

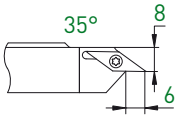
35°



ISO-Line
VC..-1103..

ML12	**ML12**	**ML12**
ML12A-SVJCR11	**ML12A-SVJCR11-D**	**ML12A-SVJCR11-JET-D**
ML12F-SVJCR11	**ML12F-SVJCR11-D**	**-**
ML16	**ML16**	**ML16**
ML16A-SVJCR11	**ML16A-SVJCR11-D**	**ML16A-SVJCR11-JET-D**
ML16F-SVJCR11	**ML16F-SVJCR11-D**	**-**

35°

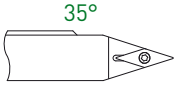


ISO-Line
VC..-1103..

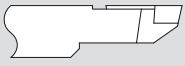
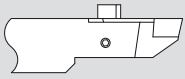
ML12	**ML12**	**ML12**
ML12A-SV-CR11	**ML12A-SV-CR11-D**	**-**
ML16	**ML16**	**ML16**
ML16A-SV-CR11	**ML16A-SV-CR11-D**	**ML16A-SV-CR11-JET-D**

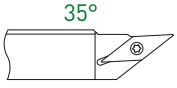
Porte-plaquettes
WSP-Halter
Insert holders

ISO-Line



ISO-Line
VC..-1103..

Standard	-D	-JET-D
		
Art. N°	**Art. N°**	**Art. N°**
ML12	**ML12**	**ML12**
ML12A-SVVCN11	**ML12A-SVVCN11-D**	**ML12A-SVVCN11-JET-D**
ML12F-SVVCN11	**ML12F-SVVCN11-D**	**-**
ML16	**ML16**	**ML16**
ML16A-SVVCN11	**ML16A-SVVCN11-D**	**ML16A-SVVCN11-JET-D**
ML16F-SVVCN11	**ML16F-SVVCN11-D**	**-**

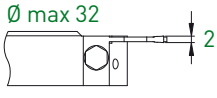


ISO-Line
VC..-1303..

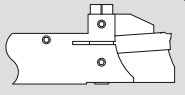
ML12	**ML12**	**ML12**
-	**ML12A-SVJCR13-D**	**-**
ML16	**ML16**	**ML16**
-	**ML16A-SVJCR13-D**	**ML16A-SVJCR13-JET-D**

Porte-plaquettes
WSP-Halter
Insert holders

EVOCUT-Line

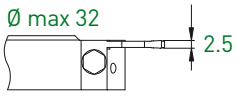


EVOCUT-Line
ET20..

		-JET -Ø
		
Art. N°	**Art. N°**	**Art. N°**
ML16	**ML16**	**ML16**
-	**-**	**ML16A-ET20-JET32**

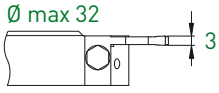
EVOCUT-Line

Porte-plaquettes
WSP-Halter
Insert holders



EVOCUT-Line
ET25..

		-JET -Ø
Art. N°	Art. N°	Art. N°
ML16	ML16	ML16
-	-	ML16A-ET25-JET32

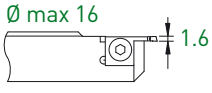


EVOCUT-Line
ET30..

ML16	ML16	ML16
-	-	ML16A-ET30-JET32

CUT-Line

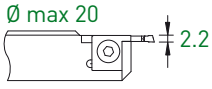
Porte-plaquettes
WSP-Halter
Insert holders



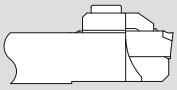
CUT-Line
CUT16..

Standard		
Art. N°	Art. N°	Art. N°
ML12	ML12	ML12
ML12A-CUT16	-	-
ML12F-CUT16	-	-
ML16	ML16	ML16
ML16A-CUT16	-	-
ML16F-CUT16	-	-

Porte-plaquettes
WSP-Halter
Insert holders

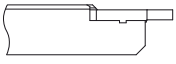


CUT-Line
CUT22..

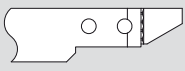
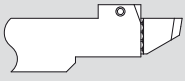
Standard		
		
Art. N°	**Art. N°**	**Art. N°**
ML12	**ML12**	**ML12**
ML12A-CUT22	**-**	**-**
ML12F-CUT22	**-**	**-**
ML16	**ML16**	**ML16**
ML16A-CUT22	**-**	**-**
ML16F-CUT22	**-**	**-**

Porte-plaquettes
WSP-Halter
Insert holders

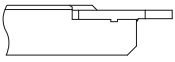
PRO-Line



PRO-Line
642-647

	-D	-JET-D
		
Art. N°	**Art. N°**	**Art. N°**
ML12	**ML12**	**ML12**
-	**ML12A-640-D**	**ML12A-640-JET-D**
ML16	**ML16**	**ML16**
-	**ML16A-640-D**	**ML16A-640-JET-D**

Porte-plaquettes
WSP-Halter
Insert holders

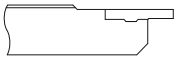


PRO-Line
661

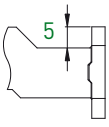
	-D	-JET-D
Art. N°	Art. N°	Art. N°
ML12	ML12	ML12
-	ML12A-660-D	ML12A-660-JET-D
ML16	ML16	ML16
-	ML16A-660-D	ML16A-660-JET-D

ECO-Line

Porte-plaquettes
WSP-Halter
Insert holders



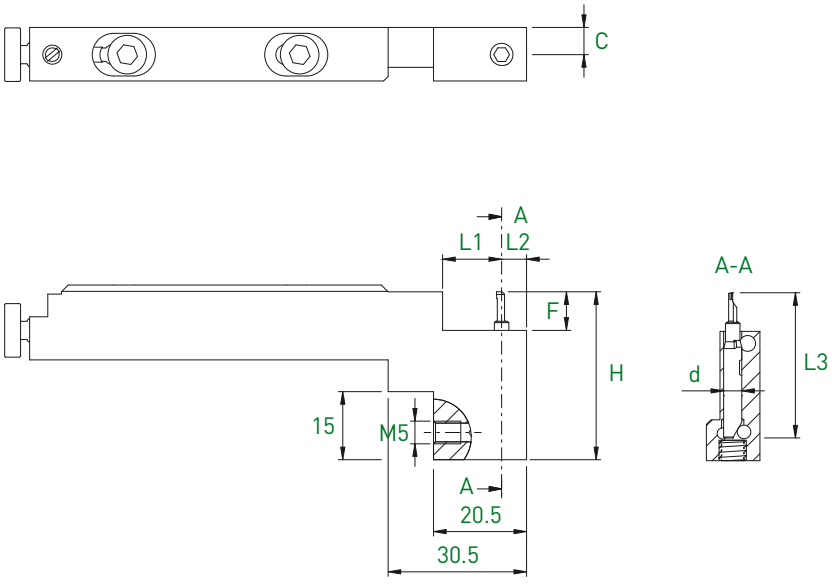
ECO-Line
261-266



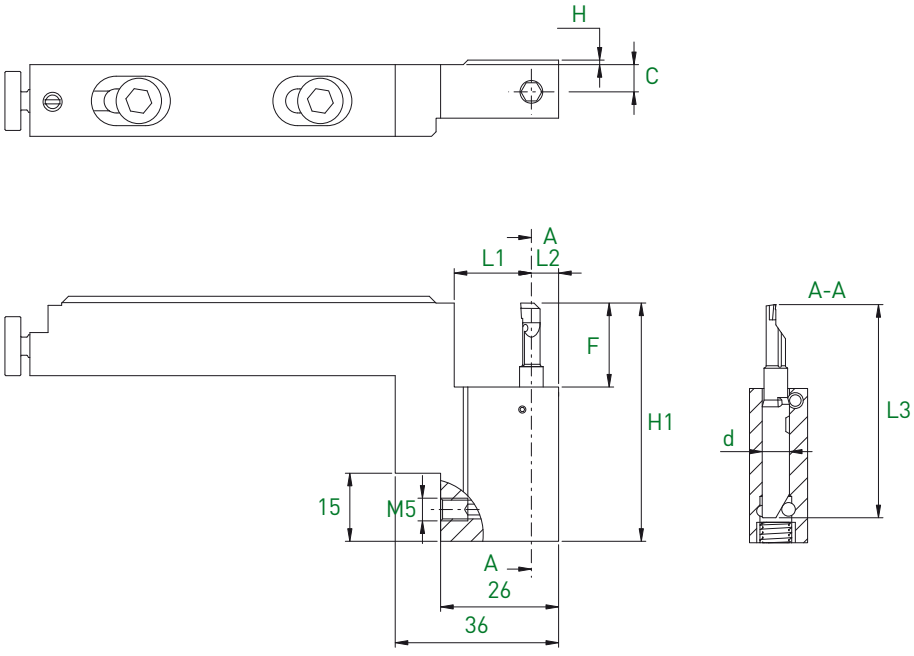
ECO-Line
251RFG

Standard	-D	-JET-D
Art. N°	Art. N°	Art. N°
ML12	ML12	ML12
ML12A-260	ML12A-260-D	ML12A-260-JET-D
ML12F-260	ML12F-260-D	-
ML16	ML16	ML16
ML16A-260	ML16A-260-D	ML16A-260-JET-D
ML16F-260	-	-
ML12	ML12	ML12
ML12A-250RFG	-	-

Porte-outils
Halter
Holders



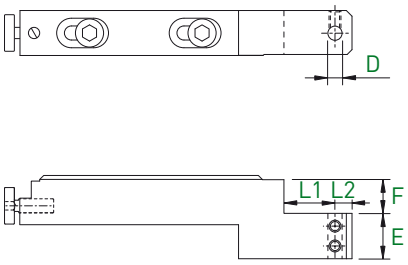
								ML12
d	Compatible bars	L3	F	H	C	L1	L2	**Art. N°**
4	BB4R... BF4R...	32	8.5	37	6	13	5.5	**ML12A-BHK4N-32R-D**
		37	13.5	42	6	13	5.5	**ML12A-BHK4N-37R-D**
		42	18.5	47	6	13	5.5	**ML12A-BHK4N-42R-D**



									ML16
d	Compatible bars	L3	F	H1	C	H	L1	L2	**Art. N°**
4	BB4R... BF4R...	32	8.5	37	6	-	17.5	5.5	**ML16A-BHK4N-32R-D**
		37	13.5	42	6	-	17.5	5.5	**ML16A-BHK4N-37R-D**
		42	18.5	47	6	-	17.5	5.5	**ML16A-BHK4N-42R-D**

									ML16
d	Compatible bars	L3	F	H1	C	H	L1	L2	**Art. N°**
6	BB4R... BF4R...	47	18.5	52.5	6	1	17	6	**ML16A-BHK6N-47R-D**
		57	28.5	62.5	6	1	17	6	**ML16A-BHK6N-57R-D**

Porte-outils
Halter
Holders

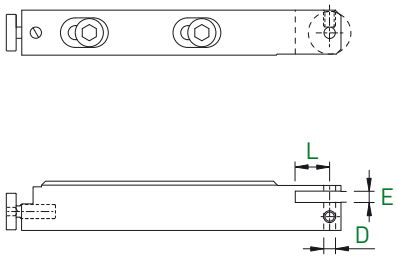


					ML12
F	D	E	L1	L2	Art. N°
8	3	12	13	6	ML12A-2440-8-3
8	4	12	13	6	ML12A-2440-8-4
8	5	12	13	6	ML12A-2440-8-5
12	6	12	13	6	ML12A-2440-12-6

					ML16
F	D	E	L1	L2	Art. N°
12	3	16	18	6	ML16A-2440-12-3
12	4	16	18	6	ML16A-2440-12-4
12	5	16	18	6	ML16A-2440-12-5
12	6	16	18	6	ML16A-2440-12-6
18	8	16	18	6	ML16A-2440-18-8

Porte-molettes
Rändelhalter
Knurl holders

TOOLING-Line



			ML12
E	D	L	Art. N°
4	4	8	ML12A-2402-44

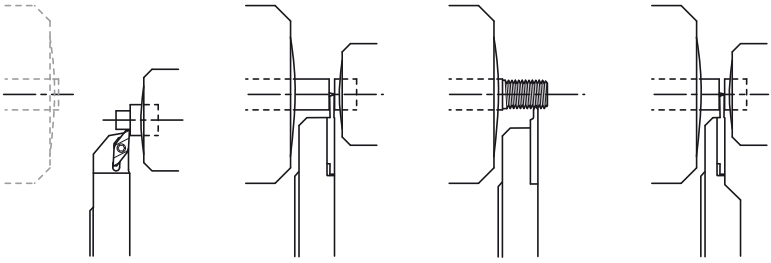
			ML16
E	D	L	Art. N°
4	4	11	ML16A-2402-44

Porte-plaquettes – Coupe déportée & contre-opération
WSP-Halter – Versetztes Schneiden & Gegenspindel
Insert holders – Cut off line & cut on subspindle

Coupe à droite déportée ou usinage à gauche sur contre-broche

Rechtsschneidend versetzt oder linksschneidend auf Gegenspindel

Right hand cut off line or left hand cut on subspindle



TURN-Line
ISO-Line

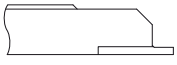
TOP-Line
EVOCUT-Line
CUT-Line
PRO-Line
ECO-Line

TOP-Line
EVOCUT-Line
CUT-Line
PRO-Line
ECO-Line

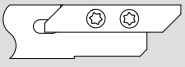
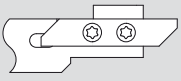
TOP-Line
PRO-Line
ECO-Line

TOP-Line

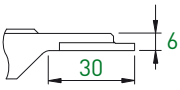
Porte-plaquettes – Coupe déportée & contre-opération
WSP-Halter – Versetztes Schneiden & Gegenspindel
Insert holders – Cut off line & cut on subspindle



TOP-Line
731-737

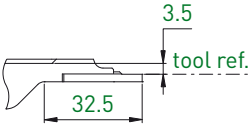
Standard	-D	-JET-D
		
Art. N°	**Art. N°**	**Art. N°**
ML12	**ML12**	**ML12**
ML12A-730-V	**ML12A-730-V-D**	**ML12A-730-V-JET-D**
ML16	**ML16**	**ML16**
ML16A-730-V	**ML16A-730-V-D**	**ML16A-730-V-JET-D**

Porte-plaquettes – Coupe déportée & contre-opération
WSP-Halter – Versetztes Schneiden & Gegenspindel
Insert holders – Cut off line & cut on subspindle



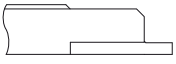
TOP-Line
731R

Standard	-D	-JET
Art. N°	Art. N°	Art. N°
ML12	ML12	ML12
ML12A-730RC	-	ML12A-730RC-JET
		-JET-D
ML16	ML16	ML16
ML16A-730RC	ML16A-730RC-D	ML16A-730RC-JET-D



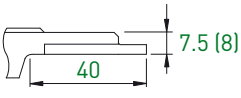
TOP-Line
731R

ML12	ML12	ML12
ML12A-730RC-R04	-	-
ML12A-730RC-SWISS-NANO	-	-



TOP-Line
751-757

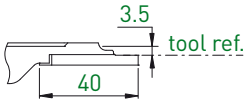
ML12	ML12	ML12
ML12A-750-V	ML12A-750-V-D	ML12A-750-V-JET-D
ML16	ML16	ML16
ML16A-750-V	ML16A-750-V-D	ML16A-750-V-JET-D



TOP-Line
751R

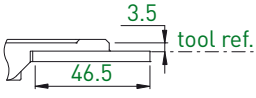
ML12	ML12	ML12
ML12A-750RC	-	ML12A-750RC-JET
ML16	ML16	ML16
ML16A-750RC	ML16A-750RC-D	ML16A-750RC-JET-D

Porte-plaquettes – Coupe déportée & contre-opération
WSP-Halter – Versetztes Schneiden & Gegenspindel
Insert holders – Cut off line & cut on subspindle



TOP-Line
751R

Standard	-D	-JET-D
Art. N°	Art. N°	Art. N°
ML12	ML12	ML12
ML12A-750RC-R04	-	-
ML12A-750RC-SWISS-NANO	-	-



TOP-Line
771R

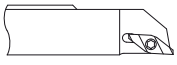
ML12	ML12	ML12
ML12A-770RC-SWISS-NANO	-	-

TOP-Line
770

ML16	ML16	ML16
-	-	ML16A-770-V-JET-D

TURN-Line

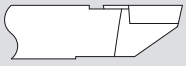
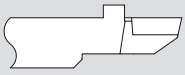
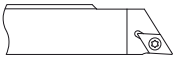
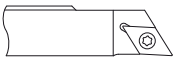
Porte-plaquettes – Contre-opération
WSP-Halter – Gegenspindel
Insert holders – Cut on subspindle



TURN-Line
337-339

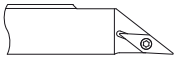
Standard	-D	-JET-D
Art. N°	Art. N°	Art. N°
ML12	ML12	ML12
ML12A-330-V	ML12A-330-V-D	ML12A-330-V-JET-D
ML16	ML16	ML16
ML16A-330-V	ML16A-330-V-D	ML16A-330-V-JET-D

Porte-plaquettes – Contre-opération
WSP-Halter – Gegenspindel
Insert holders – Cut on subspindle

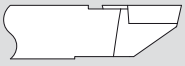
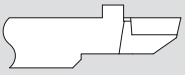
	Standard	-D	-JET-D
			
	Art. N°	**Art. N°**	**Art. N°**
80°	**ML12**	**ML12**	**ML12**
ISO-Line CC..-0602..	-	ML12A-SCLCL06-V-D	ML12A-SCLCL06-V-JET-D
	ML16	**ML16**	**ML16**
	-	ML16A-SCLCL06-V-D	ML16A-SCLCL06-V-JET-D
80°	**ML12**	**ML12**	**ML12**
ISO-Line CC..-9T3..	-	ML12A-SCLCL09-V-D	ML12A-SCLCL09-V-JET-D
	ML16	**ML16**	**ML16**
	-	ML16A-SCLCL09-V-D	ML16A-SCLCL09-V-JET-D
 55°	**ML12**	**ML12**	**ML12**
ISO-Line DC..-0702..	-	ML12A-SDJCL07-V-D	ML12A-SDJCL07-V-JET-D
	ML16	**ML16**	**ML16**
	-	ML16A-SDJCL07-V-D	ML16A-SDJCL07-V-JET-D
 55°	**ML12**	**ML12**	**ML12**
ISO-Line DC..-11T3..	ML12A-SDJCL11-V	ML12A-SDJCL11-V-D	ML12A-SDJCL11-V-JET-D
	ML16	**ML16**	**ML16**
	ML16A-SDJCL11-V	ML16A-SDJCL11-V-D	ML16A-SDJCL11-V-JET-D

Porte-plaquettes – Coupe déportée
WSP-Halter – Versetztes Schneiden
Insert holders – Cut off line

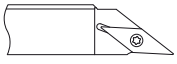
35°



ISO-Line
VC..-1103..

Standard	-D	-JET-D
		
Art. N°	**Art. N°**	**Art. N°**
ML12	**ML12**	**ML12**
ML12A-SVJCL11-V	**ML12A-SVJCL11-V-D**	**ML12A-SVJCL11-V-JET-D**
ML16	**ML16**	**ML16**
ML16A-SVJCL11-V	**ML16A-SVJCL11-V-D**	**ML16A-SVJCL11-V-JET-D**

35°



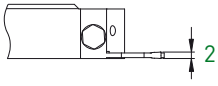
ISO-Line
VC..-1303..

ML12	**ML12**	**ML12**
-	**ML12A-SVJCL13-V-D**	-
ML16	**ML16**	**ML16**
-	**ML16A-SVJCL13-V-D**	**ML16A-SVJCL13-V-JET-D**

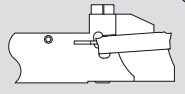
EVOCUT-Line

Porte-plaquettes – Coupe déportée
WSP-Halter – Versetztes Schneiden
Insert holders – Cut off line

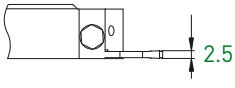
Ø max 32



EVOCUT-Line
ET20

		-JET -Ø
		
Art. N°	**Art. N°**	**Art. N°**
ML16	**ML16**	**ML16**
-	-	**ML16A-ET20-V-JET32**

Ø max 32



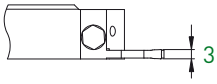
EVOCUT-Line
ET25

ML16	**ML16**	**ML16**
-	-	**ML16A-ET25-V-JET32**

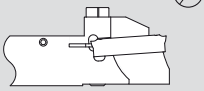
Porte-plaquettes – Coupe déportée
WSP-Halter – Versetztes Schneiden
Insert holders – Cut off line

EVOCUT-Line

Ø max 32



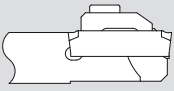
EVOCUT-Line
ET30



ML16	ML16	ML16
-	-	ML16A-ET30-V-JET32

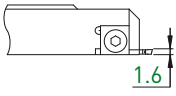
Porte-plaquettes – Coupe déportée
WSP-Halter – Versetztes Schneiden
Insert holders – Cut off line

CUT-Line



Art. N°	Art. N°	Art. N°
ML12	**ML12**	**ML12**
ML12A-CUT16-V	-	-
ML12F-CUT16-V	-	-
ML16	**ML16**	**ML16**
ML16A-CUT16-V	-	-
ML16F-CUT16-V	-	-

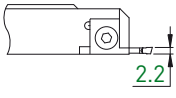
Ø max 16



CUT-Line
CUT16

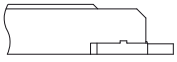
ML12	ML12	ML12
ML12A-CUT22-V	-	-
ML12F-CUT22-V	-	-
ML16	**ML16**	**ML16**
ML16A-CUT22-V	-	-
ML16F-CUT22-V	-	-

Ø max 20

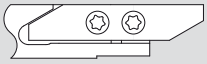
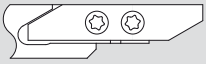
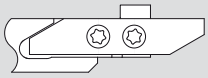


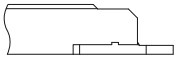
CUT-Line
CUT22

Porte-plaquettes – Coupe déportée & contre-opération
WSP-Halter – Versetztes Schneiden & Gegenspindel
Insert holders – Cut off line & cut on subspindle



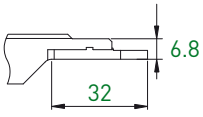
PRO-Line
632-636

Standard	-D	-JET-D
		
Art. N°	**Art. N°**	**Art. N°**
ML12	**ML12**	**ML12**
-	**ML12A-630-V-D**	**ML12A-630-V-JET-D**
ML16	**ML16**	**ML16**
-	**ML16A-630-V-D**	**ML16A-630-V-JET-D**



PRO-Line
651R

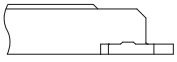
ML12	**ML12**	**ML12**
-	**ML12A-650-V-D**	**ML12A-650-V-JET-D**
ML16	**ML16**	**ML16**
-	**ML16A-650-V-D**	**ML16A-650-V-JET-D**



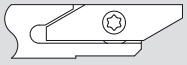
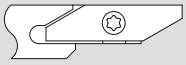
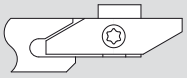
PRO-Line
651R

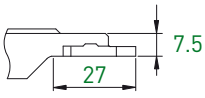
ML12	**ML12**	**ML12**
ML12A-650RC	**ML12A-650RC-D**	-
ML16	**ML16**	**ML16**
-	**ML16A-650RC-D**	**ML16A-650RC-JET-D**

Porte-plaquettes – Coupe déportée & contre-opération
WSP-Halter – Versetztes Schneiden & Gegenspindel
Insert holders – Cut off line & cut on subspindle



ECO-Line
251-261

Standard	-D	-JET-D
		
Art. N°	**Art. N°**	**Art. N°**
ML12	**ML12**	**ML12**
ML12A-250-V	**ML12A-250-V-D**	**ML12A-250-V-JET-D**
ML16	**ML16**	**ML16**
ML16A-250-V	**ML16A-250-V-D**	**ML16A-250-V-JET-D**



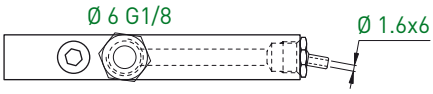
ECO-Line
251R

ML12	**ML12**	**ML12**
-	**ML12A-250RC-D**	-
ML16	**ML16**	**ML16**
-	**ML16A-250RC-D**	-

ML12 / ML16

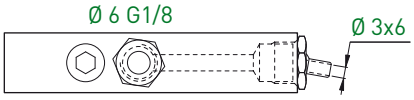
Modules d'arrosage
Kühlmittelzufuhrelemente
Coolant supply units

ML12



Raccord Anschluss Connection	Buses d'arrosage Kühlmitteldüse Coolant nozzles	ML12 Art. N°
Ø 6 G 1/8	5/16"	ML12-JET-5/16

ML16

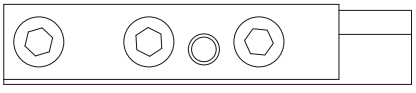


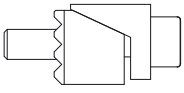
Raccord Anschluss Connection	Buses d'arrosage Kühlmitteldüse Coolant nozzles	ML16 Art. N°
Ø 6 G 1/8	7/16"	ML16-JET-7/16

buses optionnelles voir page 14.99
zusätzliche Düsen siehe Seite 14.99
optional nozzles see page 14.99

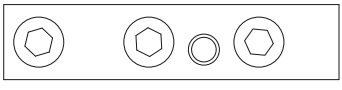
ML12 / ML16

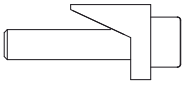
Modules de serrage
Spannelemente
Clamping units





ML12 Art. N°	ML16 Art. N°
ML12-FIX-12/14	ML16-FIX-16/16
–	ML16-FIX-16/16.5
–	ML16-FIX-16/17
–	ML16-FIX-16/20
–	ML16-FIX-16/22
–	ML16-FIX-16/24



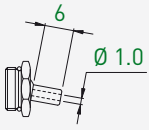
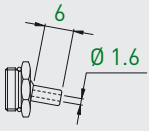
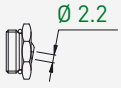


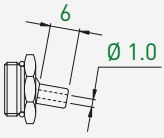
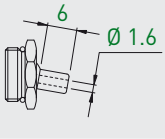
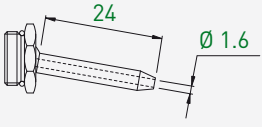
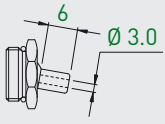
ML12 Art. N°	ML16 Art. N°
ML12-FIX-12	ML16-FIX-16

Buses d'arrosage
Kühlmitteldüsen
Coolant nozzles

5/16" / 7/16"

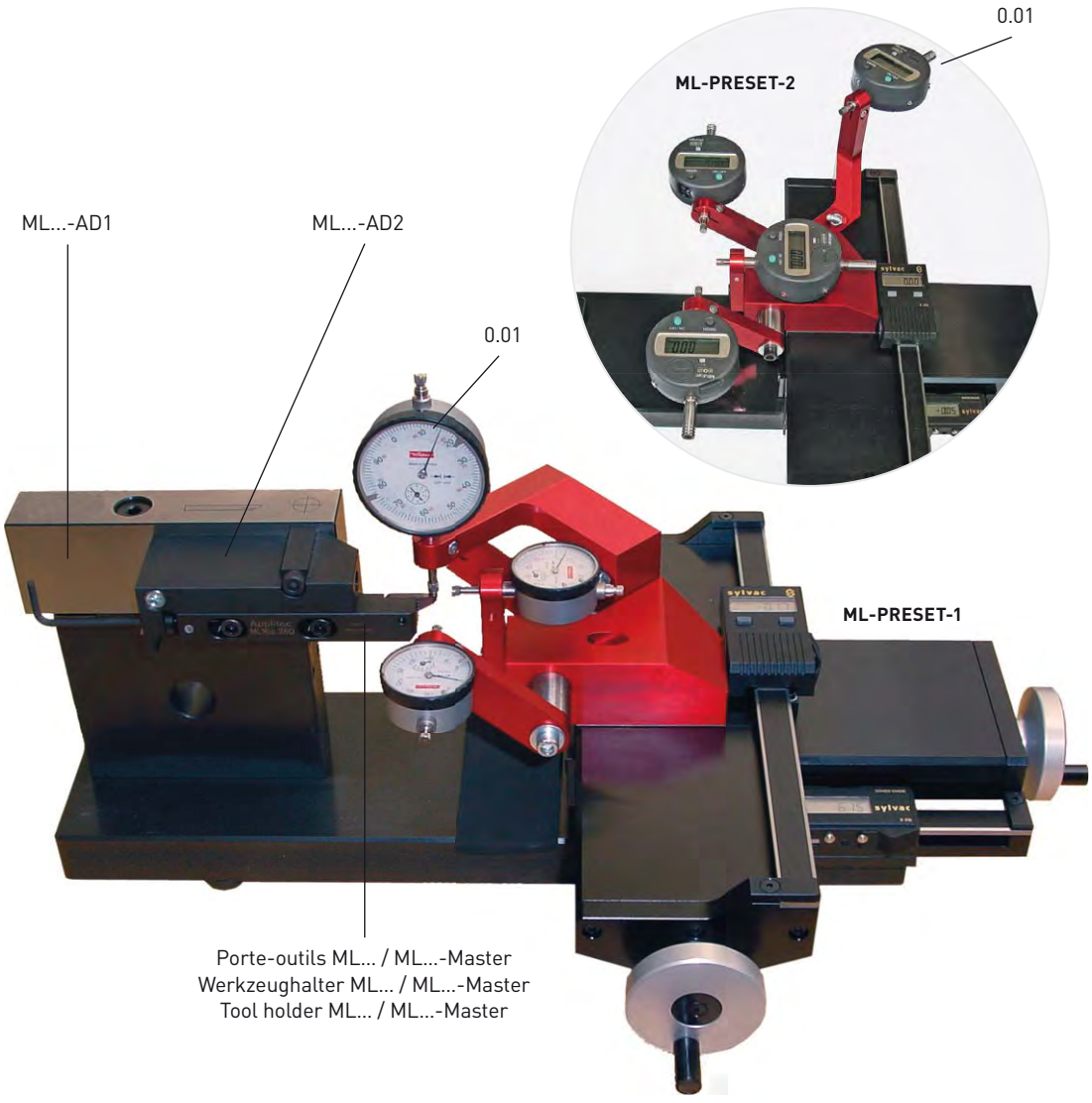
JET

5/16"	Art. N°	Références compatibles Kompatible Artikeln Compatible items
	**ML-JET-5/16-1.0X6**	**ML12-JET-5/1.6** une buse **ML-JET-5/16-1.6x6** est comprise eine Düse **ML-JET-5/16-1.6x6** ist inbegriffen a nozzle **ML-JET-5/16-1.6x6** is included
	**ML-JET-5/16-1.6X6**	
	**ML-JET-5/16-2.2X0**	

7/16"	Art. N°	Références compatibles Kompatible Artikeln Compatible items
	**ML-JET-7/16-1.0X6**	**ML16-KMX26-JET** **ML16-JET-7/16** **ML12-DECO10-JET** **ML16-DECO13-JET** **ML16-DECO20-JET** **ML16-S20-JET** **ML16-SWISS-ST26-JET** une buse **ML-JET-7/16-3.0x6** est comprise avec chaque article ci-dessus eine Düse **ML-JET-7/16-3.0x6** ist mit jedem vorstehenden Artikel inbegriffen a nozzle **ML-JET-7/16-3.0x6** is included with each above item
	**ML-JET-7/16-1.6X6**	
	**ML-JET-7/16-1.6X24**	
	**ML-JET-7/16-3.0X6**	

ML12 / ML16

Bancs de préréglage
Voreinstellgeräte
Presetting devices

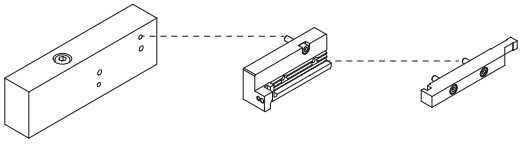


Art. N°
ML-PRESET-1
ML-PRESET-2

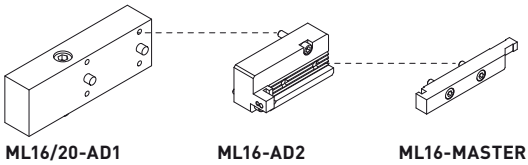
Bancs de préréglage
Voreinstellgeräte
Presetting devices

ML12 / ML16

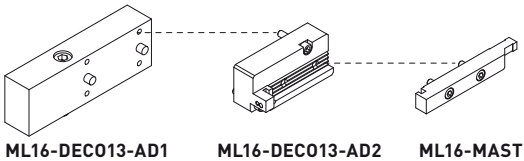
Type Typ Type	Fabricant Hersteller Manufacturer	Machines Maschinen Machines	Adaptateurs et jauges d'étalonnage Adapter und Einstellehre Adaptators and master gauges
ML12	CITIZEN	C12/C16	
		L12-1M7	
		L12-2M10	
		M16 V/VIII	
		R04	
		R07	
	HANWHA	XD10	
		XD20M	
	METAFIL	D3/D10/D13	
	STAR	SB-12RG	
		SL-7/10	
		SR10-J	
		SW-12RII	
	TORNOS	DECO7/10 - EvoDECO 10	
		SwissNano/SwissNano 7	
		DT13	
		CT20	
		GT13	
	TSUGAMI	B074	
		B075	
		P034	
		P034-P036	
ML16	CITIZEN	K12/K16/K12E/K16E	
		L20E-1M8/L20X-1M10/L20-2M8/2M12	
		L20E-3M	
	HANWHA	SL12/16	
	MANUHRIN	KMX 426/526/626/Swing 20-26 MM	
	STAR	SA-12/SA-16/SA-16R	
		SB-16	
		SB-16/20RG	
		SB-20C/E	
		SR-16R/SR-20R/SR-20RII	
		SR-20J/SR-20RIII	
		SR-20JII-A/B	
		SR-20RIII/SR-20J	
		SR-20RIV	
		SR-32J	
		SV-12/20/ SV-20R	
		SW-20	
	TORNOS	DECO20/26 - EvoDECO20/32	
		SIGMA20/32	
		DT26	
		GT26	
		GT32	
ML16	TORNOS	DECO13-EvoDECO16	
		Swiss ST26	



ML12-AD1 **ML12-AD2** **ML12-MASTER**



ML16/20-AD1 **ML16-AD2** **ML16-MASTER**

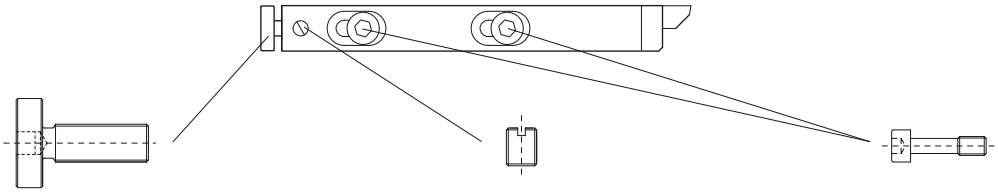


ML16-DECO13-AD1 **ML16-DECO13-AD2** **ML16-MASTER**

ML12 / ML16

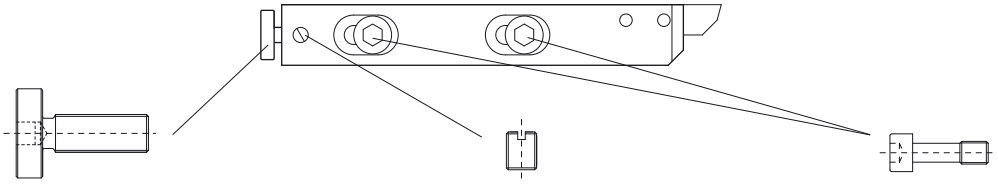
Pièces de rechange
Ersatzteile
Spare parts

ML12



Vis de réglage Einstellungsschraube Setting screw	Vis de blocage Blockierschraube Locking screw	Vis de fixation Befestigungsschraube Fixing screw
Art. N°	**Art. N°**	**Art. N°**
ML12A-M5X0.5	**ML-M4X4-T**	**ML12-M5XL20**

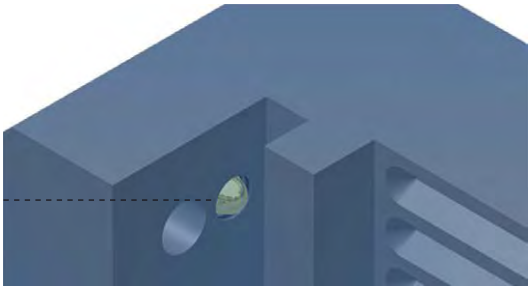
ML16



Vis de réglage Einstellungsschraube Setting screw	Vis de blocage Blockierschraube Locking screw	Vis de fixation Befestigungsschraube Fixing screw
Art. N°	**Art. N°**	**Art. N°**
ML16A-M5X0.5	**ML-M4X4-T**	**ML16/20-M6XL20**

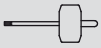
Art. N°
ML-205004

Butée à ressort
Federnde Schraube
Spring bumper



Pièces de rechange et accessoires
Ersatzteile und Zubehöre
Spare parts and accessories

ML12 / ML16

Porte-outils Halter Holders					Options 	
ML...250	V-M4X9-T15	-	-	-	-	C-T15
ML...260						
ML...330	V-M2.5X7.8-T8	-	-	-	-	C-T8
ML...340						
ML...630	V-M4X9-T15	-	-	-	-	C-T15
ML...640						
ML...650						
ML...650RC	V-M4X6.5-T15					
ML...660	V-M4X9-T15					
ML...730	V-M3X7-T8	-	-	-	-	C-T8
ML...730RC	V-M3X5.5-T8					
ML...730RC-R04	V-M3X4.5-T8 V-M3X7-T8					
ML...730RC-SWISS-NANO	V-M3X4.5-T8 V-M3X7-T8					
ML...740	V-M3X7-T8					
ML...750	V-M4X9-T15	-	-	-	-	C-T15
ML...750RC	V-M4X7.3-T15					
ML...750RC-R04	V-M4X5.6-T15 V-M4X7.3-T15					
ML...750RC-SWISS-NANO	V-M4X5.6-T15 V-M4X7.3-T15					
ML...760	V-M4X9-T15					
ML...770RC-SWISS-NANO	V-M4X7.3-T15					
ML...780	V-M4X9-T15					
ML...SC...06	V-M2.5X5.8-T8	-	-	-	-	C-T8
ML...SC...09	V-M4X7-T15-ISO	-	-	-	-	C-T15
ML...-SD...07	V-M2.5X7.8-T8	-	-	-	-	C-T8
ML...-SD...07-D	V-M2.5X5.8-T8					
ML12...-SDJ...11	V-M4X7-T15-ISO	-	-	-	-	C-T15
ML12...-SDN...11	V-M4X9-T15-ISO					
ML16...-SD...11						
ML...-SV...11	V-M2.5X7.8-T8	-	-	-	-	C-T8
ML...-SV...13	V-M3X7.3-T8-ISO					
ML...-CUT16	-	-	CUT16RS-SET	-	-	-
ML...-CUT16-V	-	-	CUT16LS-SET	-	-	-
ML...-CUT22	-	-	CUT22RS-SET	-	-	-
ML...-CUT16-V	-	-	CUT22LS-SET	-	-	-
ML16...-ET... JET32	-	-	-			-
ML16...-ET... V-JET32	-		-	V-M5X21-6P7-J	C-6PEX-7.0	-
ML...-BHK	V-BHK-M4X0.5-T8		-			-
ML12A-2440-8-3	-	V-M3X4-BN24	-	-	-	-
ML12A-2440-8-4		V-M4X5-BN24				
ML12A-2440-8-5		V-M4X5-BN25				
ML12A-2440-12-6		V-M4X5-BN24				
ML16A-2440-12-3		V-M3X5-BN24				
ML16A-2440-12-4		V-M4X6-BN24				
ML16A-2440-12-5		V-M4X5-BN24				
ML16A-2440-12-6		V-M4X5-BN24				
ML16A-2440-18-8		V-M4X5-BN25				

TOOLING-Line

APPLITEC
CUTTING TOOLS

Index

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Forets à centrer plats Zentrierflachbohrer Centering flat drills	1200 / 2200		> 15.20
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Molettes en métal dur Vollhartmetall Rändelrädchen Solid carbide knurling wheels	1107		> 15.25

Outils et porte-outils traditionnels pour le décolletage et la mécanique de précision

- Porte-outils
- Forets à centrer
- Burins intérieurs
- Porte-molettes
- Molettes en métal dur

Übliche Werkzeuge und Halter für Decolletage und Präzisionsmechanik

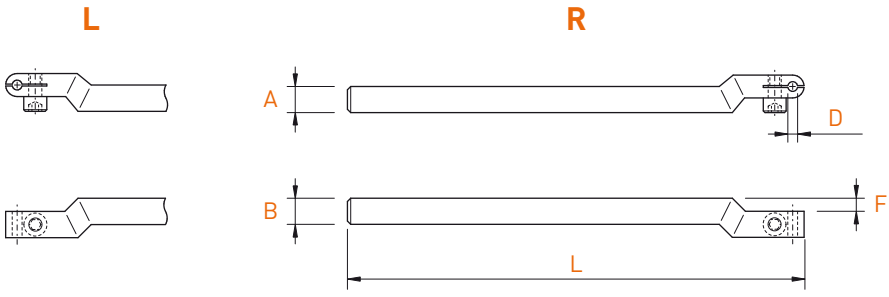
- Werkzeughalter
- Zentrierbohrer
- Innendrehwerkzeuge
- Rändelhalter
- Vollhartmetall Rändelrädchen

Usual tools and tool holders for automatic lathes and precision mecanics

- Tool holders
- Centring drills
- Internal turning tools
- Knurl holders
- Solid carbide knurling wheels

1400-J / 2400-J

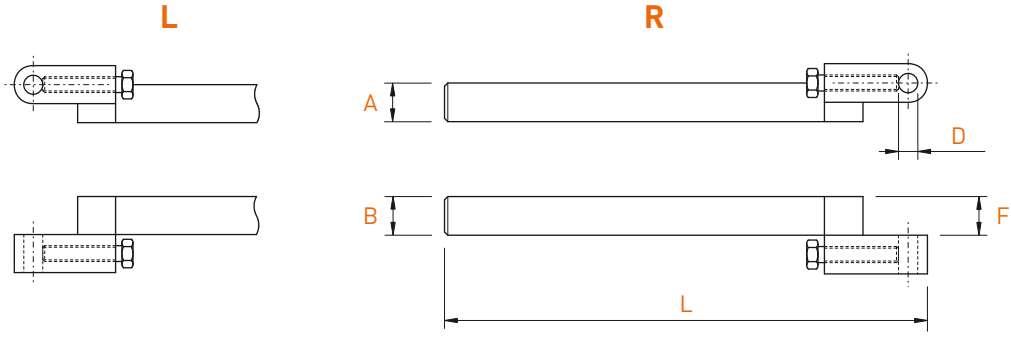
Porte-outils
Werkzeughalter
Tool holders



A x B	L	F	D	L Art. N°	R Art. N°	Pièces de rechange Ersatzteile Spare parts * Art. N°
6 x 6	132	3	1.5	**1400-J-615**	**2400-J-615**	**V-M3X5-BN7**
6 x 6	132	3	2.0	**1400-J-620**	**2400-J-620**	
6 x 6	132	3	3.0	**1400-J-630**	**2400-J-630**	
7 x 7	140	3	1.5	**1400-J-715**	**2400-J-715**	**V-M4X6-BN7**
7 x 7	140	3	2.0	**1400-J-720**	**2400-J-720**	
7 x 7	140	3	3.0	**1400-J-730**	**2400-J-730**	
8 x 8	140	4	1.5	**1400-J-815**	**2400-J-815**	
8 x 8	140	4	2.0	**1400-J-820**	**2400-J-820**	
8 x 8	140	4	3.0	**1400-J-830**	**2400-J-830**	

Porte-outils
Werkzeughalter
Tool holders

1401-K / 2401-K

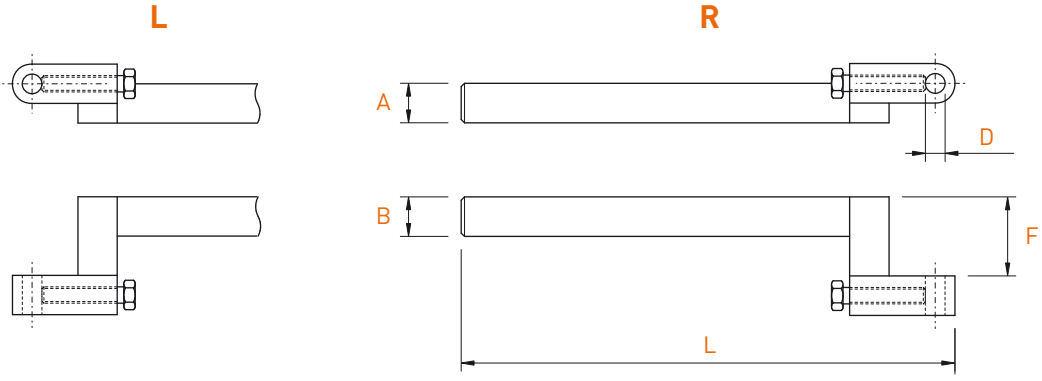


				L	R	Pièces de rechange Ersatzteile Spare parts *
A x B	L	F	D	Art. N°	Art. N°	Art. N°
7 x 7	146	7	2.0	1401-K-720	-	
7 x 7	146	7	3.0	1401-K-730	2401-K-730	
7 x 7	146	7	4.0	1401-K-740	2401-K-740	
8 x 8	146	8	2.0	1401-K-820	-	V-M4X20-HEX7
8 x 8	146	8	3.0	1401-K-830	2401-K-830	
8 x 8	146	8	4.0	1401-K-840	2401-K-840	
8 x 8	146	8	5.0	1401-K-850	2401-K-850	
8 x 8	146	8	6.0	1401-K-860	2401-K-860	
10 x 10	150	10	3.0	-	2401-K-1030	
10 x 10	150	10	4.0	1401-K-1040	2401-K-1040	
10 x 10	150	10	5.0	1401-K-1050	2401-K-1050	
10 x 10	150	10	6.0	1401-K-1060	2401-K-1060	V-M4X25-HEX7
10 x 10	150	10	7.0	1401-K-1070	2401-K-1070	
12 x 12	150	12	3.0	-	2401-K-1230	
12 x 12	150	12	4.0	1401-K-1240	2401-K-1240	
12 x 12	150	12	5.0	1401-K-1250	2401-K-1250	
12 x 12	150	12	6.0	1401-K-1260	2401-K-1260	
12 x 12	150	12	8.0	1401-K-1280	2401-K-1280	
14 x 14	150	14	4.0	1401-K-1440	2401-K-1440	V-M4X30-HEX7
14 x 14	150	14	6.0	1401-K-1460	2401-K-1460	
14 x 14	150	14	8.0	1401-K-1480	2401-K-1480	

* livré avec chaque porte-outil / mit jedem Halter geliefert / delivered with each holder

1420 / 2420

Porte-outils
Werkzeughalter
Tool holders

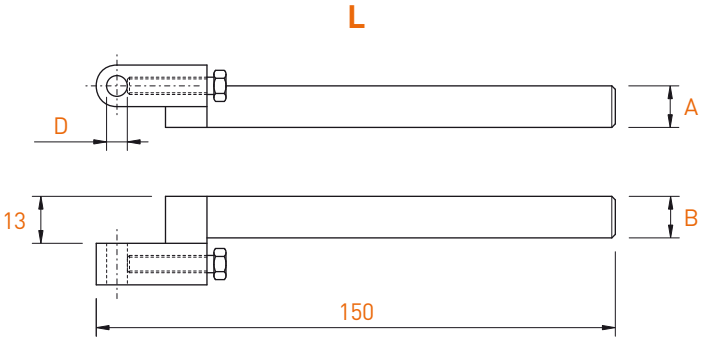


A x B	L	F	D	L Art. N°	R Art. N°	Pièces de rechange Ersatzteile Spare parts * Art. N°
7 x 7	146	12	4.0	**1420-7124**	**2420-7124**	
8 x 8	146	12	4.0	**1420-8124**	**2420-8124**	
8 x 8	146	14	3.0	**1420-8143**	**2420-8143**	**V-M4X20-HEX7**
8 x 8	146	15	5.0	**1420-8155**	**2420-8155**	
8 x 8	146	20	5.0	**1420-8205**	**2420-8205**	
10 x 10	150	20	6.0	**1420-10206**	**2420-10206**	
12 x 12	150	18	6.0	**1420-12186**	**2420-12186**	
12 x 12	150	18	8.0	**1420-12188**	**-**	**V-M5X25-HEX8**
12 x 12	150	24	8.0	**1420-12248**	**2420-12248**	
14 x 14	150	20	8.0	**1420-14208**	**2420-14208**	
14 x 14	150	24	8.0	**1420-14248**	**2420-14248**	

Porte-outils
Werkzeughalter
Tool holders

⍁ 12 x 12

1460

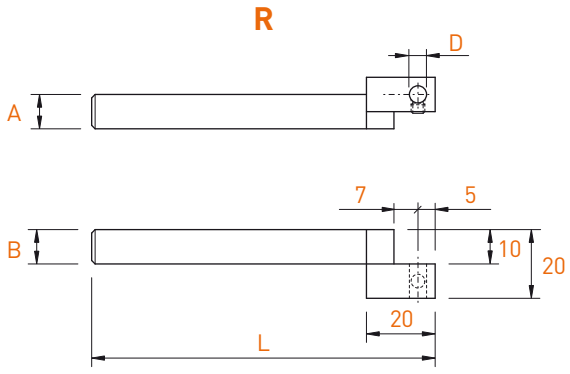


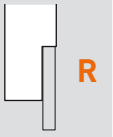
A x B	D	L Art. N°	Pièces de rechange Ersatzteile Spare parts Art. N°
12 x 12	4.0	**1460-4**	**V-M5X25-HEX8**
12 x 12	5.0	**1460-5**	
12 x 12	6.0	**1460-6**	
12 x 12	8.0	**1460-8**	

* livré avec chaque porte-outil / mit jedem Halter geliefert / delivered with each holder

2450-SP

☐ 10 x 10





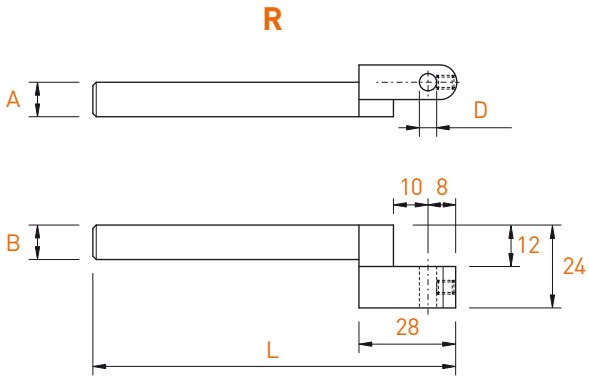
Pièces de rechange
Ersatzteile
Spare parts

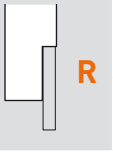
A x B	L	D	Art. N°	Art. N°
10 x 10	100	3.0	**2450-SP-3**	**V-M4X4-BN24**
10 x 10	100	4.0	**2450-SP-4**	**V-M4X3-BN24**
10 x 10	100	5.0	**2450-SP-5**	**V-M4X4-BN24**
10 x 10	100	6.0	**2450-SP-6**	**V-M4X3-BN24**
10 x 10	120	3.0	**2450-SP-3-120**	
10 x 10	120	4.0	**2450-SP-4-120**	**V-M4X4-BN24**
10 x 10	120	5.0	**2450-SP-5-120**	
10 x 10	120	6.0	**2450-SP-6-120**	**V-M4X3-BN24**

Porte-outils
Werkzeughalter
Tool holders

⍁ 10 x 10

2470



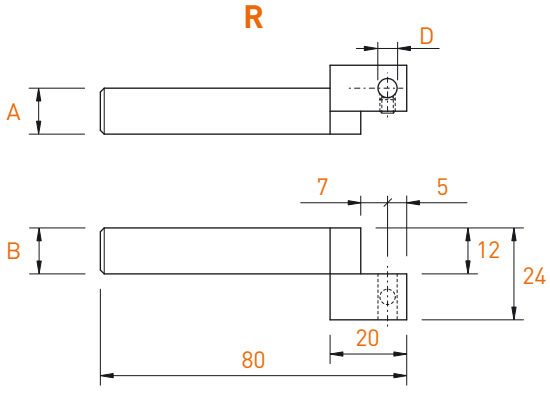


Pièces de rechange
Ersatzteile
Spare parts

*

A x B	L	D	Art. N°	Art. N°
10 x 10	105	3.0	**2470-3**	**V-M4X5-BN24**
10 x 10	105	4.0	**2470-4**	
10 x 10	105	5.0	**2470-5**	
10 x 10	105	6.0	**2470-6**	
10 x 10	105	7.0	**2470-7**	

* livré avec chaque porte-outil / mit jedem Halter geliefert / delivered with each holder

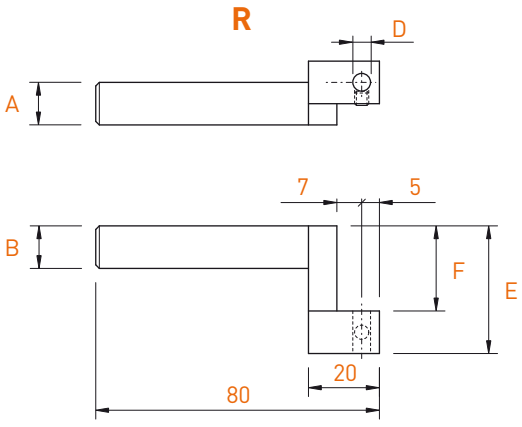


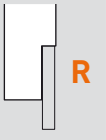
A x B	D	R Art. N°	Pièces de rechange Ersatzteile Spare parts *
			Art. N°
12 x 12	3.0	**2450-3**	**V-M3X4-BN24**
12 x 12	4.0	**2450-4**	
12 x 12	5.0	**2450-5**	**V-M4X3-BN24**
12 x 12	6.0	**2450-6**	
12 x 12	8.0	**2450-8**	

Porte-outils
Werkzeughalter
Tool holders

⍁ 12 x 12

2460



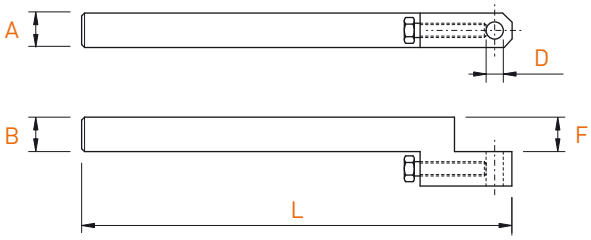


Pièces de rechange
Ersatzteile
Spare parts

*

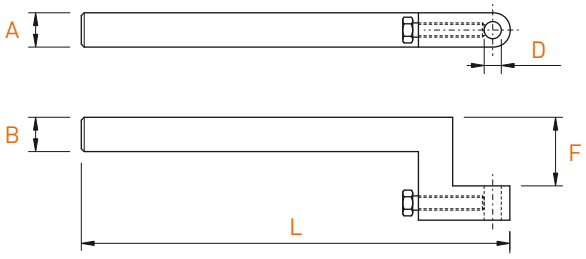
A x B	F	E	D	Art. N°	Art. N°
12 x 12	16	28	4.0	**2460-284**	**V-M3X4-BN24**
12 x 12	16	28	6.0	**2460-286**	**V-M4X3-BN24**
12 x 12	16	28	8.0	**2460-288**	
12 x 12	20	32	4.0	**2460-324**	**V-M3X4-BN24**
12 x 12	20	32	6.0	**2460-326**	**V-M4X3-BN24**
12 x 12	20	32	8.0	**2460-328**	
12 x 12	24	36	4.0	**2460-364**	**V-M3X4-BN24**
12 x 12	24	36	6.0	**2460-366**	**V-M4X3-BN24**
12 x 12	24	36	8.0	**2460-368**	

* livré avec chaque porte-outil / mit jedem Halter geliefert / delivered with each holder



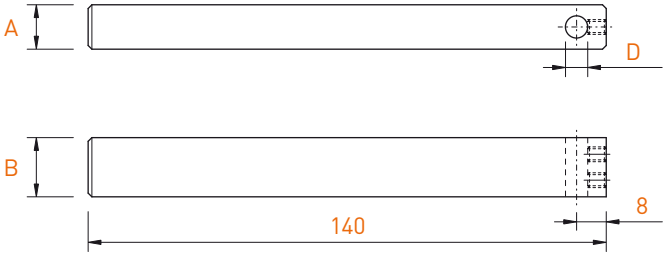
A x B	L	F	D	Art. N°	Pièces de rechange Ersatzteile Spare parts * Art. N°
8 x 8	120	8	3.0	**2405-K-830**	
8 x 8	120	8	4.0	**2405-K-840**	**V-M4X25-HEX7**
8 x 8	120	8	5.0	**2405-K-850**	
8 x 8	120	8	6.0	**2405-K-860**	
10 x 10	100	10	4.0	**2405-K-1040**	
10 x 10	100	10	5.0	**2405-K-1050**	**V-M5X25-HEX8**
10 x 10	100	10	6.0	**2405-K-1060**	
12 x 12	150	12	4.0	**2405-K-1240**	
12 x 12	150	12	6.0	**2405-K-1260**	**V-M5X30-HEX8**
12 x 12	150	12	8.0	**2405-K-1280**	

Porte-outils
Werkzeughalter
Tool holders



A x B	L	F	D	Art. N°	Pièces de rechange Ersatzteile Spare parts * Art. N°
8 x 8	120	12	4.0	**2425-8124**	**V-M4X25-HEX7**
8 x 8	120	15	5.0	**2425-8155**	
8 x 8	120	20	5.0	**2425-8205**	
10 x 10	100	15	6.0	**2425-10156**	**V-M5X25-HEX8**
10 x 10	100	20	6.0	**2425-10206**	
12 x 12	150	18	6.0	**2425-12186**	**V-M5X30-HEX8**
12 x 12	150	24	8.0	**2425-12248**	**V-M5X25-HEX8**

* livré avec chaque porte-outil / mit jedem Halter geliefert / delivered with each holder



A x B	D	Art. N°
12 x 16	3.0	**2441-0-3**
12 x 16	4.0	**2441-0-4**
12 x 16	5.0	**2441-0-5**
12 x 16	6.0	**2441-0-6**

Pièces de rechange
Ersatzteile
Spare parts

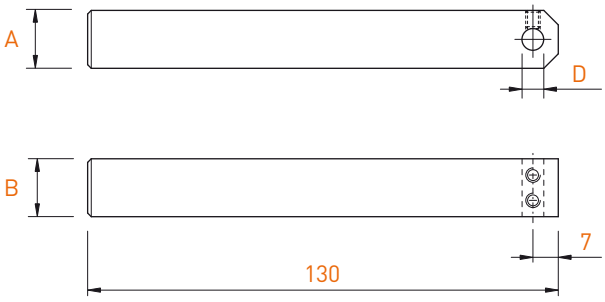
*

Art. N°
V-M4X4-BN24

Porte-outils
Werkzeughalter
Tool holders

☐ 16 x 16

2440-0



A x B	D	Art. N°
16 x 16	3.0	**2440-0-3**
16 x 16	4.0	**2440-0-4**
16 x 16	5.0	**2440-0-5**
16 x 16	6.0	**2440-0-6**

Pièces de rechange
Ersatzteile
Spare parts

*

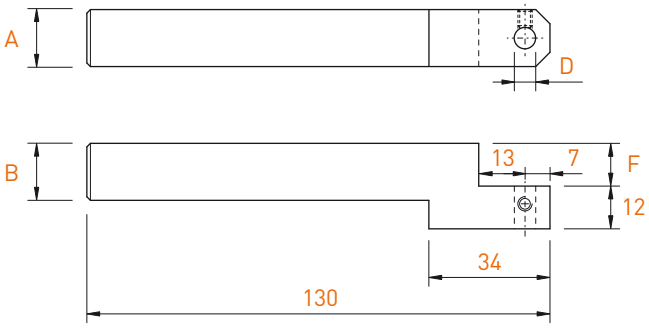
Art. N°
V-M4X4-BN24

* livré avec chaque porte-outil / mit jedem Halter geliefert / delivered with each holder

2440-8 / 2440-12

⍁ 16 x 16

Porte-outils
Werkzeughalter
Tool holders

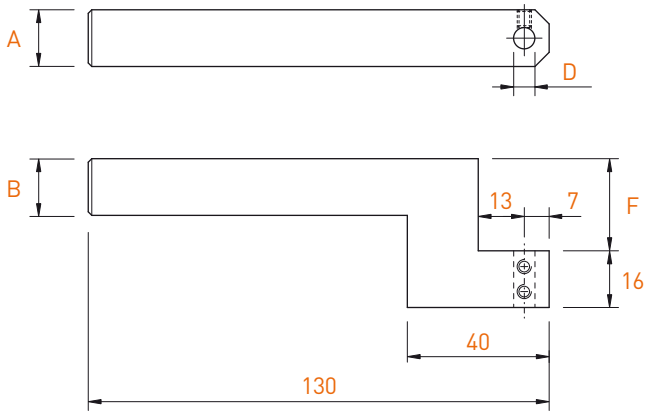


A x B	F	D	Art. N°	Pièces de rechange Ersatzteile Spare parts * Art. N°
16 x 16	8	3.0	**2440-8-3**	**V-M4X6-BN24**
16 x 16	8	4.0	**2440-8-4**	
16 x 16	8	5.0	**2440-8-5**	
16 x 16	8	6.0	**2440-8-6**	
16 x 16	8	8.0	**2440-8-8**	
16 x 16	12	3.0	**2440-12-3**	
16 x 16	12	4.0	**2440-12-4**	
16 x 16	12	5.0	**2440-12-5**	
16 x 16	12	6.0	**2440-12-6**	
16 x 16	12	8.0	**2440-12-8**	

Porte-outils
Werkzeughalter
Tool holders

⍁ 16 x 16

2440-18 / 2440-26



A x B	F	D	Art. N°
16 x 16	18	4.0	**2440-18-4**
16 x 16	18	5.0	**2440-18-5**
16 x 16	18	6.0	**2440-18-6**
16 x 16	18	8.0	**2440-18-8**
16 x 16	26	4.0	**2440-26-4**
16 x 16	26	5.0	**2440-26-5**
16 x 16	26	6.0	**2440-26-6**
16 x 16	26	8.0	**2440-26-8**

Pièces de rechange
Ersatzteile
Spare parts

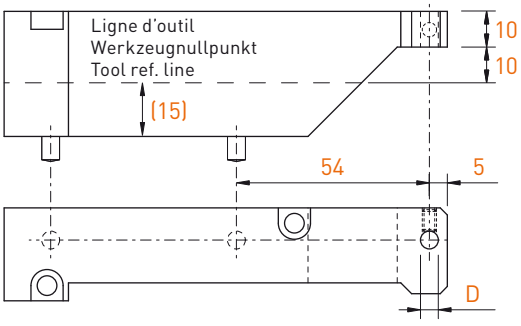
*

Art. N°
V-M4X6-BN24

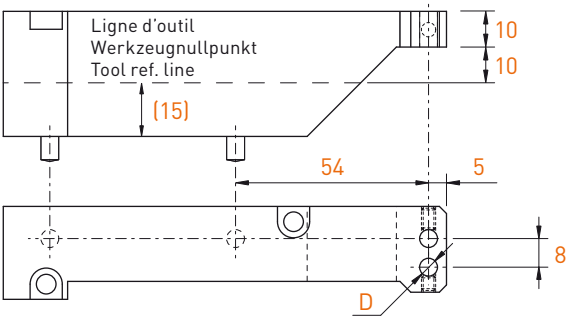
* livré avec chaque porte-outil / mit jedem Halter geliefert / delivered with each holder

2435 / 2435-T

Porte-outils pour machines Tornos DECO 7/10 / EvoDECO 10
Werkzeughalter für Tornos DECO 7/10 / EvoDECO 10 Maschinen
Tool holders for Tornos DECO 7/10 / EvoDECO 10 machines



D	Art. N°	Pièces de rechange Ersatzteile Spare parts Art. N°
3.0	2435-3	V-M4X6-BN24 *
4.0	2435-4	
5.0	2435-5	
6.0	2435-5	

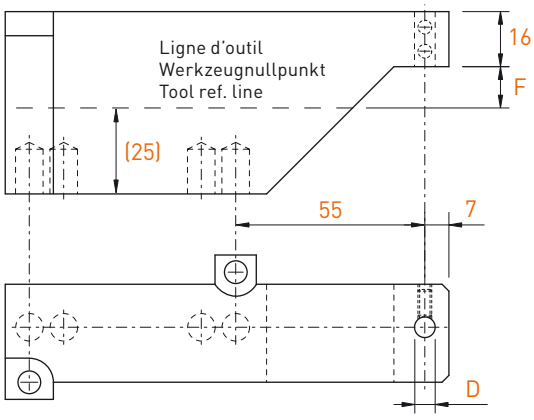


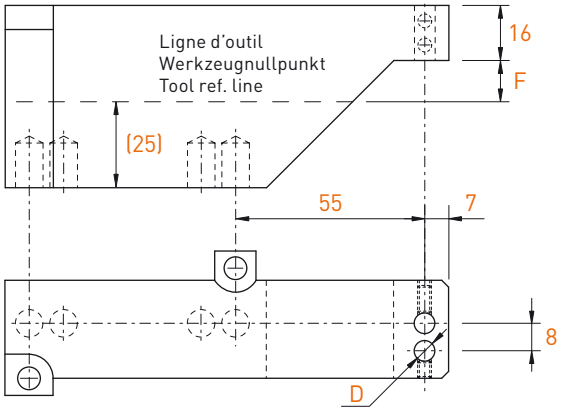
D	Art. N°	Art. N°
3.0	2435-3-T	V-M4X6-BN24
4.0	2435-4-T	
5.0	2435-5-T	
6.0	2435-6-T	

* livré avec chaque porte-outil / mit jedem Halter geliefert / delivered with each holder

Porte-outils pour machines Tornos DECO 13 / EvoDECO 16
Werkzeughalter für Tornos DECO 13 / EvoDECO 16 Maschinen
Tool holders for Tornos DECO 13 / EvoDECO 16 machines

2436 / 2436T



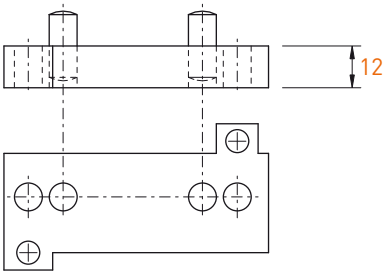


F	D	Art. N°	Pièces de rechange Ersatzteile Spare parts *
12	3.0	**2436-12-3**	**V-M4X10-BN24**
12	4.0	**2436-12-4**	
12	5.0	**2436-12-5**	
12	6.0	**2436-12-6**	
12	8.0	**2436-12-8**	
18	3.0	**2436-18-3**	
18	4.0	**2436-18-4**	
18	5.0	**2436-18-5**	
18	6.0	**2436-18-6**	
18	8.0	**2436-18-8**	

F	D	Art. N°	Art. N°
12	3.0	**2436T-12-3**	**V-M4X5-BN24**
12	4.0	**2436T-12-4**	
12	5.0	**2436T-12-5**	
12	6.0	**2436T-12-6**	
18	3.0	**2436T-18-3**	
18	4.0	**2436T-18-4**	
18	5.0	**2436T-18-5**	
18	6.0	**2436T-18-6**	

Entretoise
Erhöhungsplatte
Spacer

2436-S12

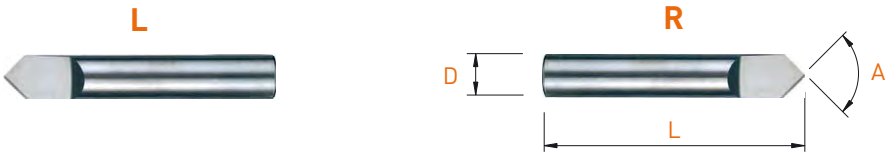


Art. N°
2436-S12

1200 / 2200

90°

Forets à centrer plats
Zentrierflachbohrer
Centering flat drills

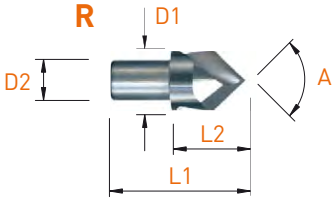


MD VHM HM			L	R
A	D	L	Art. N°	Art. N°
90°	3	17	**1200-317**	**2200-317**
90°	3	38	**1200-338**	**2200-338**
90°	4	40	**1200-440**	**2200-440**
90°	5	50	**1200-550**	**2200-550**
90°	6	50	**1200-650**	**2200-650**
90°	8	58	**1200-858**	**2200-858**
90°	10	66	**1200-1066**	**2200-1066**
90°	12	73	**1200-1273**	**2200-1273**

Forets à centrer hélicoïdaux
Zentrierspiralbohrer
Centering twist drills

90°

1500 / 2520

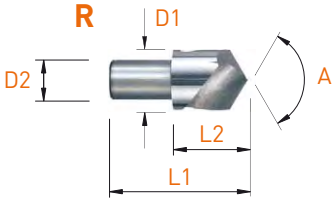


					HSS		MD / VHM / HM	
					L	R	L	R
A	D1	D2	L1	L2	Art. N°	Art. N°	Art. N°	Art. N°
90°	5	4	17	8	**1500-5-HSS**	**2520-5-HSS**	**1500-5**	**2520-5**
90°	7	5	17	8	**1500-7-HSS**	**2520-7-HSS**	**1500-7**	**2520-7**
90°	10	6	22	10	**1500-10-HSS**	**2520-10-HSS**	**1500-10**	**2520-10**
90°	12	8	26	12	**1500-12-HSS**	**2520-12-HSS**	**1500-12**	**2520-12**

Forets à centrer hélicoïdaux
Zentrierspiralbohrer
Centering twist drills

120°

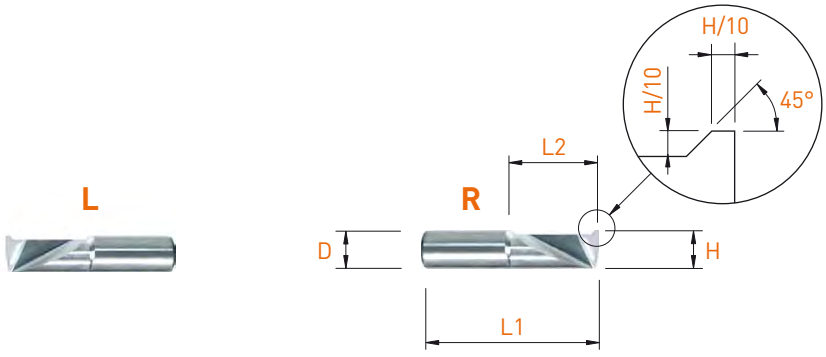
1510 / 2530



MD VHM HM					L	R
A	D1	D2	L1	L2	Art. N°	Art. N°
120°	5	4	17	8	**1510-5**	**2530-5**
120°	7	5	17	8	**1510-7**	**2530-7**
120°	10	6	22	10	**1510-10**	**2530-10**
120°	12	8	26	12	**1510-12**	**2530-12**

1600 / 2620

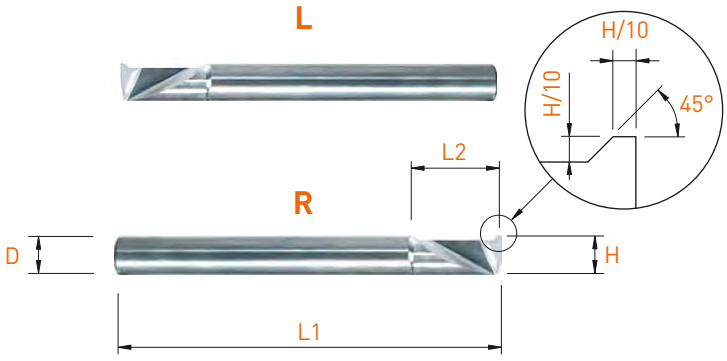
Burins intérieurs en métal dur
Vollhartmetall Innendrehwerkzeuge
Solid carbide internal turning tools



MD VHM HM				L	R
H 0/-0.05	D	L1	L2	Art. N°	Art. N°
2	3	13	4	**1600-2-4**	**2620-2-4**
3	3	15	6	**1600-3-6**	**2620-3-6**
4	4	17	8	**1600-4-8**	**2620-4-8**
4	4	21	12	**1600-4-12**	**2620-4-12**
5	5	21	10	**1600-5-10**	**2620-5-10**
5	5	26	15	**1600-5-15**	**2620-5-15**
6	6	25	12	**1600-6-12**	**2620-6-12**
6	6	31	18	**1600-6-18**	**2620-6-18**
8	8	32	16	**1600-8-16**	**2620-8-16**
8	8	40	24	**1600-8-24**	**2620-8-24**

Burins intérieurs en métal dur
Vollhartmetall Innendrehwerkzeuge
Solid carbide internal turning tools

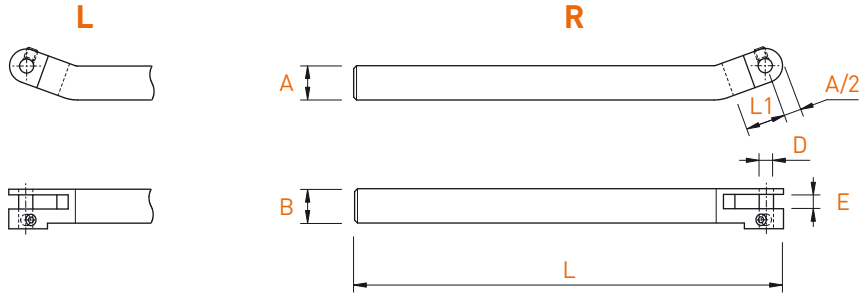
1610 / 2630

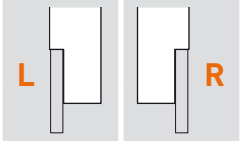


MD VHM HM				L	R
H 0/-0.05	D	L1	L2	Art. N°	Art. N°
2	3	38	4	**1610-2-4**	**2630-2-4**
3	3	38	6	**1610-3-6**	**2630-3-6**
4	4	40	8	**1610-4-8**	**2630-4-8**
4	4	40	12	**1610-4-12**	**2630-4-12**
5	5	50	10	**1610-5-10**	**2630-5-10**
5	5	54	15	**1610-5-15**	**2630-5-15**
6	6	50	12	**1610-6-12**	**2630-6-12**
6	6	57	18	**1610-6-18**	**2630-6-18**
8	8	58	16	**1610-8-16**	**2630-8-16**
8	8	63	24	**1610-8-24**	**2630-8-24**
10	10	72	30	-	**2630-10-30**
12	12	83	36	-	**2630-12-36**

1402 / 2402

Porte-molettes
Rändelhalter
Knurl holders





Pièces de rechange
Ersatzteile
Spare parts

*

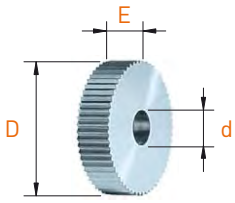
*

A x B	L	E	D	L1	A/2	Art. N°	Art. N°	Art. N°	Art. N°
6 x 6	132	2	3	10	3	1402-623	2402-623	GP-3X10-A6H2.5	V-M3X3-BN24
6 x 6	132	3	3	10	3	1402-633	2402-633		
7 x 7	140	2	3	10	3.5	1402-723	2402-723	GP-3X12-A6H2.5	
7 x 7	140	3	3	10	3.5	1402-733	2402-733		
7 x 7	140	4	3	10	3.5	1402-743	2402-743		
7 x 7	140	2	4	10	3.5	1402-724	2402-724	GP-4X12-A6H3.5	
7 x 7	140	3	4	10	3.5	1402-734	2402-734		
7 x 7	140	4	4	10	3.5	1402-744	2402-744		
8 x 8	140	2	3	10	4	1402-823	2402-823	GP-3X12-A6H2.5	
8 x 8	140	3	3	10	4	1402-833	2402-833		
8 x 8	140	4	3	10	4	1402-843	2402-843		
8 x 8	140	2	4	10	4	1402-824	2402-824	GP-4X12-A6H3.5	
8 x 8	140	3	4	10	4	1402-834	2402-834		
8 x 8	140	4	4	10	4	1402-844	2402-844		
10 x 10	150	3	3	10	5	1402-1033	2402-1033	GP-3X14-A8H2.5	V-M4X4-BN24
10 x 10	150	4	3	10	5	1402-1043	2402-1043		
10 x 10	150	3	4	10	5	1402-1034	2402-1034	GP-4X14-A8H3.5	
10 x 10	150	4	4	10	5	1402-1044	2402-1044		
10 x 10	150	5	4	10	5	1402-1054	-		
12 x 12	150	4	4	12	6	1402-1244	2402-1244		
12 x 12	150	5	4	12	6	1402-1254	2402-1254		
12 x 12	150	4	5	12	6	1402-1245	2402-1245	GP-5X14-A8H4.5	
12 x 12	150	5	5	12	6	1402-1255	2402-1255		
16 x 16	150	4	4	12	8	1402-1644	2402-1644	GP-4X16-A8H3.5	V-M4X6-BN24
16 x 16	150	4	5	12	8	-	2402-1645	GP-5X16-A9H4.5	
16 x 16	150	5	5	12	8	-	2402-1655		
16 x 16	150	6	4	12	8	-	2402-1664	GP-4X16-A8H3.5	
16 x 16	150	6	6	12	8	-	2402-1666	GP-6X16-A9H5.5	
16 x 16	150	8	6	12	8	-	2402-1686		

* livré avec chaque porte-outil / mit jedem Halter geliefert / delivered with each holder

Molettes en métal dur
Vollhartmetall Rändelrädchen
Solid carbide knurling wheels

1107



AA

BL

BR

GE

Art. N° ex :
10X2X3-0.2-AA

D	E	d	Pas (tous les 0.1 mm) Teilung (alle 0.1 mm) Pitch (every 0.1 mm)	Molettes standards Standard Rändelrädchen Standard knurls
8	2	3	0.2 - 0.6	AA (0°) BL 15° / BR 15° BL 30° / BR 30° BL 45° / BR 45° GE 30° GE 45°
8	2	4	0.2 - 0.6	
8	3	3	0.2 - 0.6	
8	3	4	0.2 - 0.6	
8	4	3	0.2 - 0.6	
8	4	4	0.2 - 0.6	
10	2	3	0.2 - 0.8	
10	2	4	0.2 - 0.8	
10	3	3	0.2 - 0.8	
10	3	4	0.2 - 0.8	
10	4	3	0.2 - 0.8	
10	4	4	0.2 - 0.8	
12	4	4	0.3 - 1.0	
15	4	4	0.4 - 1.0	
15	4	5	0.4 - 1.0	
15	5	4	0.4 - 1.0	
15	5	5	0.4 - 1.0	
20	4	5	0.5 - 1.2	
20	5	5	0.5 - 1.2	
20	6	6	0.5 - 1.2	
20	8	6	0.5 - 1.2	

Art. N° ex :
8.9X2.5X4-0.2-AA-Q

D	E	d	Pas (tous les 0.1 mm) Teilung (alle 0.1 mm) Pitch (every 0.1 mm)	Molettes "Quick" "Quick"-Rändelrädchen "Quick"-knurling wheels
8.9	2.5	4	0.2 - 0.8	AA (0°) BL 15° / BR 15° BL 30° / BR 30°
14.5	3	5	0.4 - 1.0	
21.5	5	8	0.5 - 1.2	

Exécutions spéciales sur demande / Sonderausführungen auf Anfrage / Special executions on request

MICRO-Line

APPLITEC
CUTTING TOOLS

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TiAlN

Revêtement PVD à couche mince
Dünnschicht PVD Beschichtung
Thin PVD coating

TF **F** M E

P ★★★★★
M ★★★★☆
N ★★★☆☆
S ★★★★☆

- revêtement de dernière génération couche mince et lisse
- idéal pour tous les aciers et aciers inoxydables
- bonne condition pour les grades de titane et les alliages de nickel
- excellente variante universelle pour un fraisage en finition ou ébauche
- très bonne résistance à la température

- neuesten Generation Beschichtung, dünne und glatte Schicht
- hervorragend für alle Stähle und rostfreie Stähle
- guter Zustand für Titan- und Nickellegierungssorten
- ausgezeichnete Universalsorte zum Schlicht- oder Schruppfräsen
- sehr gute Temperaturbeständigkeit

- latest generation coating thin and smooth layer
- specially adapted for our tools Ideal for all basic steels and stainless steels
- good condition for titanium grades and nickel alloys
- excellent universal variant for finishing or rough milling
- very good temperature resistance

STF

Revêtement PVD à couche mince
Dünnschicht PVD Beschichtung
Thin PVD coating

TF F M E

P ★★★★☆
M ★★★★★
N ★★★★☆
S ★★★★★

- revêtement de haute performance
- 1er choix pour les alliages de chrome/nickel, inox, titane, zirconium
- spécialement adapté aux matières extrêmes en général

- hochleistungsbeschichtung
- erste Wahl für Chrom/Nickel, rostfreiem Stahl, Titan, Zirkoniumlegierungen
- speziell angepasst für extreme Materialien im Allgemeinen

- high performance coating
- first choice for chrome/nickel, stainless steel, titanium, zirconium alloys
- specially adapted to extreme materials in general

Nuances
Sorten
Grades

TiCN

Revêtement PVD à couche mince
Dünnschicht PVD Beschichtung
Thin PVD coating

TF **F** M E

P ★★★★★
M ★★★★☆
N ★★★☆☆
S ★★★★☆

- revêtement de dernière génération offrant une excellente adhérence, avec une couche mince et lisse
- idéal pour le fraisage en finition de tous les aciers et aciers inoxydables
- excellente nuance pour les outils de petits diamètres (0.02-0.90 mm)

- Beschichtung der neuesten Generation mit ausgezeichneter Haftung, dünner und glatter Schicht
- hervorragend für Schlichtfräsen aller Stähle und rostfreien Stähle
- ausgezeichnete Sorte für Werkzeuge mit kleinem Durchmesser (0.02-0.90 mm)

- latest generation coating with excellent adhesion, thin and smooth layer
- ideal for finish milling for all steels and stainless steels
- specially adapted for small diameters (0.02-0.90 mm)

DLC

Revêtement DLC à couche mince
Dünnschicht DLC Beschichtung
Thin DLC coating

TF F M E

P ☆☆☆☆☆
M ☆☆☆☆☆
N ★★★★★
S ★★☆☆☆

- revêtement de très haute performance et à couche extra-mince
- très faible coefficient de frottement
- 1er choix pour toutes les matières précieuses, non ferreuses et abrasives, telles que l'or, l'argent, le laiton sans plomb, le cuivre, l'aluminium, la fibre de carbone, la nacre et divers polymères...
- angles de coupe à finition poli miroir, offrant une excellente acuité d'arête
- durée de vie de l'outil considérablement prolongée

- hochleistungsbeschichtung mit extra-feiner Schicht
- sehr geringer Reibwert
- erste Wahl für alle edlen, nicht eisenhaltig und abrasiven Materialien wie Gold, Silber, bleifreies Messing, Kupfer, Aluminium, Kohlefaser, Perlmutt und diverse Polymere...
- Schneidkanten mit hochglanzpolierte Oberfläche, die eine hervorragende Schneidkantenschärfe bieten
- deutlich verlängerte Lebensdauer des Werkzeugs

- very high-performance coating with extra-thin layer
- very low friction ratio
- first choice for all precious, non-ferrous and abrasive materials, such as gold, silver, lead-free brass, copper, aluminum, carbon fiber, mother-of-pearl and various polymers...
- cutting edges with mirror-polished finish, offering excellent edge sharpness
- significantly extended tool life

N

Non revêtu
Unbeschichtet
Uncoated

P ★★☆☆☆
M ★★☆☆☆
N ★★★★☆
S ★★☆☆☆

- carbures de haute qualité, adaptés aux différents groupes de produits
- tous les carbures ont une excellente dureté et une bonne résistance à la déformation
- acuité d'arête maximale grâce à une finition super polie
- idéal pour l'usinage en super finition de matières non ferreuses ou faiblement alliées

- hochwertige und spezifische Hartmetalle gemäss den Produktgruppen
- alle Hartmetalle haben eine ausgezeichnete Härte und eine gute Verformungsbeständigkeit
- maximale Kantenschärfe durch hochpoliertes Finish
- ideal für superfinish Bearbeitung von Nichteisen- oder niedriglegierten Materialien

- high-quality and specific carbides according to the product groups in our catalog
- all carbides have excellent hardness and good resistance to deformation
- maximum edge sharpness thanks to a super polished tool finish
- ideal for super-finish machining of non-ferrous or low-alloy materials

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

> 16.07

Z	λ	L2	D1	D2	Type	Corner	page
Z=1	0°	2x D1	Ø0.20 - 3.00	Ø3 h4 / Ø4 h5	**3170-2**	Sharp Corner	> 16.08
		2x D1	Ø0.20 - 3.00	Ø3 h4 / Ø4 h5	**3170R-2**		> 16.09
		3x D1	Ø0.20 - 3.00	Ø3 h4 / Ø4 h5	**3170R-3**		> 16.10
		4x D1	Ø0.30 - 3.00	Ø3 h4 / Ø4 h5	**3170R-4**		> 16.11
Z=2	30°	0.75x D1	Ø0.20 - 2.00	Ø3 h4	**3271-0.75**	Sharp Corner	> 16.12
		1x D1	Ø0.30 - 2.50	Ø3 h4	**3271-1**		> 16.13
		1.5x D1	Ø0.10 - 2.00	Ø3 h4	**3271-1.5**		> 16.14
		2x D1	Ø0.10 - 2.00	Ø3 h4	**3271-2**		> 16.15
		3x D1	Ø0.10 - 2.90	Ø3 h4	**3271-3**		> 16.16
		5x D1	Ø0.30 - 2.50	Ø3 h4	**3271-5**		> 16.17
		8x D1	Ø0.40 - 2.50	Ø3 h4 / Ø4 h5	**3271-8**		> 16.18
		2x D1	Ø0.20 - 3.00	Ø3 h4 / Ø6 h5	**3270S-3X**		> 16.19
		2x D1	Ø0.30 - 3.00	Ø3 h4 / Ø6 h5	**3270S-6X**		> 16.20
		2x D1	Ø0.40 - 3.00	Ø3 h4 / Ø6 h5	**3270S-9X**		> 16.21
		2x D1	Ø0.30 - 3.00	Ø3 h4 / Ø6 h5	**3279T-3X**	Radius Corner	> 16.22
		2x D1	Ø0.30 - 3.00	Ø3 h4 / Ø6 h5	**3279T-6X**		> 16.23
		2x D1	Ø0.40 - 3.00	Ø3 h4 / Ø6 h5	**3279T-9X**		> 16.24
Z=3	30°	1.3x D1	Ø0.30 - 2.90	Ø3 h4	**3371-1.3**	Sharp Corner	> 16.25
		2x D1	Ø0.30 - 2.90	Ø3 h4	**3371-2**		> 16.26
		3x D1	Ø0.30 - 2.90	Ø3 h4	**3371-3**		> 16.27
		4x D1	Ø0.30 - 2.90	Ø3 h4	**3371-4**		> 16.28
		5x D1	Ø0.50 - 2.50	Ø3 h4	**3371-5**		> 16.29
		8x D1	Ø0.50 - 2.50	Ø3 h4 / Ø4 h5	**3371-8**		> 16.30
	45°	2.5x D1	Ø0.30 - 2.90	Ø3 h4	**3375-2.5**		> 16.31
	36°-38°-40°	1.5x D1	Ø0.30 - 2.50	Ø3 h4	**DHD3371-1.5**		> 16.32
		3x D1	Ø0.30 - 2.50	Ø3 h4	**DHD3371-3**		> 16.33
	30°	2x D1	Ø0.30 - 3.00	Ø3 h4 / Ø6 h5	**3370S-3X**		> 16.34
		2x D1	Ø0.30 - 3.00	Ø3 h4 / Ø6 h5	**3370S-6X**		> 16.35
		2x D1	Ø0.40 - 3.00	Ø3 h4 / Ø6 h5	**3370S-9X**		> 16.36
		2x D1	Ø0.30 - 3.00	Ø3 h4 / Ø6 h5	**3379T-3X**	Radius Corner	> 16.37
		2x D1	Ø0.30 - 3.00	Ø3 h4 / Ø6 h5	**3379T-6X**		> 16.38
		2x D1	Ø0.40 - 3.00	Ø3 h4 / Ø6 h5	**3379T-9X**		> 16.39
Z=4	30°	1.5x D1	Ø0.30 - 2.90	Ø3 h4	**3471-1.5**	Sharp Corner	> 16.40
		3x D1	Ø0.30 - 2.90	Ø3 h4	**3471-3**		> 16.41
	40°	2x D1	Ø0.30 - 2.90	Ø3 h4	**3472-2**		> 16.42
		4x D1	Ø0.40 - 2.90	Ø3 h4	**3472-4**		> 16.43
	35°-38°	3x D1	Ø0.50 - 2.50	Ø3 h4	**DHP3471-3**		> 16.44
Z=2	30°	0.75x D1	Ø0.20 - 2.50	Ø3 h4	**3278-0.75**	U	> 16.45
		1x D1	Ø0.20 - 2.90	Ø3 h4	**3278-1**		> 16.46
		1.5x D1	Ø0.20 - 2.90	Ø3 h4	**3278-1.5**		> 16.47
		3x D1	Ø0.20 - 2.90	Ø3 h4	**3278-3**		> 16.48
		1.5x D1	Ø0.20 - 3.00	Ø3 h4 / Ø6 h5	**3278H-3X**		> 16.49
		1.5x D1	Ø0.30 - 3.00	Ø3 h4 / Ø6 h5	**3278H-6X**		> 16.50
		1.5x D1	Ø0.40 - 3.00	Ø3 h4 / Ø6 h5	**3278H-9X**		> 16.51

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

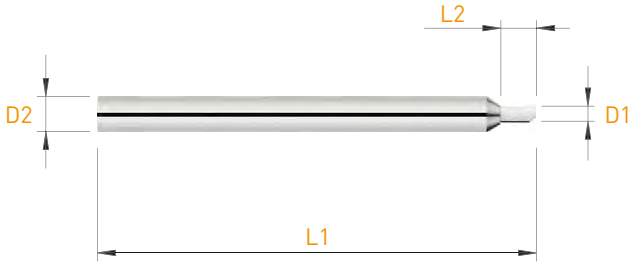
Matière Werkstoff Material	VC (m/min)	0.10 - 0.50 fz (mm)	0.60 - 1.50 fz (mm)	1.60 - 2.90 fz (mm)	N	TiAlN	STF	TiCN	DLC
Acier de décolletage Automatenstahl Free-cutting steel (P)	80 - 130	0.003 - 0.005	0.006 - 0.010	0.013 - 0.020	-	★★★	★★★	★★	-
Acier Stahl < 600 N/mm² Steel (P)	70 - 100	0.003 - 0.005	0.006 - 0.010	0.013 - 0.020	-	★★★	★★★	★★	-
Acier Stahl < 800 N/mm² Steel (P)	70 - 100	0.003 - 0.005	0.006 - 0.010	0.013 - 0.020	-	★★★	★★★	★★	-
Acier Stahl > 800 N/mm² Steel (P)	50 - 80	0.003 - 0.005	0.006 - 0.010	0.013 - 0.020	-	★★★	★★★	★★	-
Acier trempé Gehärteter Stahl -55HRC Hardened steel (H)	60 - 90	0.001 - 0.002	0.003 - 0.005	0.007 - 0.010	-	★★★	★★★	★	-
Acier trempé Gehärteter Stahl +55HRC Hardened steel (H)	40 - 70	0.001 - 0.002	0.003 - 0.005	0.007 - 0.010	-	★★★	★★★	★	-
Inox Rostfreistahl Stainless steel (M)	40 - 80	0.003 - 0.005	0.006 - 0.010	0.013 - 0.020	-	★★★	★★★	★★	-
Aluminium (N)	200 - 300	0.002 - 0.005	0.005 - 0.010	0.010 - 0.030	★★★	-	-	★★	★★★
Cuivre, laiton, bronze Kupfer, Messing, Bronze Copper, brass, bronze (N)	100 - 200	0.001 - 0.005	0.006 - 0.010	0.010 - 0.015	★★★	★★	★★	★★	★★★
Matière synthétique Synthetisches Material Synthetic material (N)	200 - 700	0.002 - 0.004	0.006 - 0.015	0.015 - 0.050	★★★	★★	★★	★★	★★★
Métaux précieux Edelmetalle Precious metals (N)	90 - 140	0.002 - 0.003	0.004 - 0.012	0.012 - 0.025	★★★	★★	★★	★	★★★
Titane Titan Titanium (S)	25 - 70	0.001 - 0.003	0.004 - 0.010	0.006 - 0.015	-	★★★	★★★	★★	-
Alliage de nickel Nickel-Legierung Nickel alloy (S)	40 - 70	0.001 - 0.003	0.004 - 0.008	0.008 - 0.012	-	★★★	★★★	★★	-
Matière exotique Exotisches material Exotic material (O)	15 - 25	0.001 - 0.002	0.003 - 0.005	0.006 - 0.010	-	★★★	★★★	★★	★★★

Avec revêtement, augmenter les valeurs de 20-30%
Mit Beschichtung, Daten um 20-30% erhöhen
With coating, increase data by 20-30%

★ Bien / Gut / Good
★★ Très bien / Sehr gut / Very good
★★★ Excellent / Ausgezeichnet / Excellent

3170-2

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills



MD
VHM
HM

λ 0°

Sharp Corner

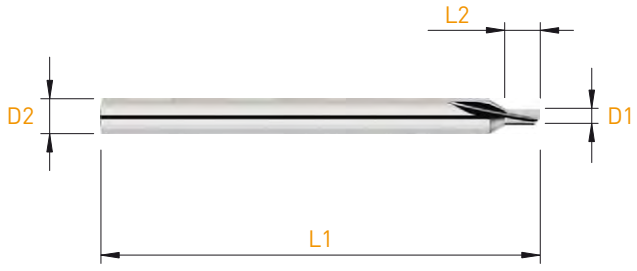
2xD1

Z=1

D1 +0.005 / -0.010	L2	D2 h4 Ø3.0 h5 Ø4.0	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.20	0.40	3.00	39	**3170-2-0.20**	●				
0.30	0.60	3.00	39	**3170-2-0.30**	●	●	●	●	●
0.40	0.80	3.00	39	**3170-2-0.40**	●	●	●	●	●
0.50	1.00	3.00	39	**3170-2-0.50**	●	●	●	●	●
0.60	1.20	3.00	39	**3170-2-0.60**	●	●	●	●	●
0.70	1.40	3.00	39	**3170-2-0.70**	●	●	●	●	●
0.80	1.60	3.00	39	**3170-2-0.80**	●	●	●	●	●
0.90	1.80	3.00	39	**3170-2-0.90**	●	●	●	●	●
1.00	2.00	3.00	39	**3170-2-1.00**	●	●	●	●	●
1.10	2.20	3.00	39	**3170-2-1.10**	●	●	●	●	●
1.20	2.40	3.00	39	**3170-2-1.20**	●	●	●	●	●
1.30	2.60	3.00	39	**3170-2-1.30**	●	●	●	●	●
1.40	2.80	3.00	39	**3170-2-1.40**	●	●	●	●	●
1.50	3.00	3.00	39	**3170-2-1.50**	●	●	●	●	●
1.60	3.20	3.00	39	**3170-2-1.60**	●	●	●	●	●
1.70	3.40	3.00	39	**3170-2-1.70**	●	●	●	●	●
1.80	3.60	3.00	39	**3170-2-1.80**	●	●	●	●	●
1.90	3.80	3.00	39	**3170-2-1.90**	●	●	●	●	●
2.00	4.00	3.00	39	**3170-2-2.00**	●	●	●	●	●
2.10	4.20	3.00	39	**3170-2-2.10**	●	●	●	●	●
2.20	4.40	3.00	39	**3170-2-2.20**	●	●	●	●	●
2.30	4.60	3.00	39	**3170-2-2.30**	●	●	●	●	●
2.40	4.80	3.00	39	**3170-2-2.40**	●	●	●	●	●
2.50	5.00	3.00	39	**3170-2-2.50**	●	●	●	●	●
2.60	5.20	3.00	39	**3170-2-2.60**	●	●	●	●	●
2.70	5.40	3.00	39	**3170-2-2.70**	●	●	●	●	●
2.80	5.60	3.00	39	**3170-2-2.80**	●	●	●	●	●
2.90	5.80	3.00	39	**3170-2-2.90**	●	●	●	●	●
3.00	6.00	4.00	40	**3170-2-3.00**	●	●	●	●	●

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

3170R-2



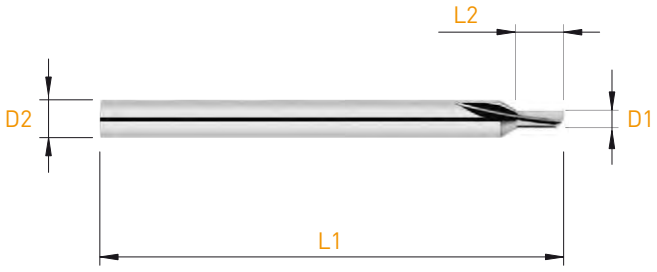
MD VHM HM | λ 0° | Sharp Corner | 2xD1 | Z=1

D1 +0.005 / -0.010	L2	D2 h4 Ø3.0 h5 Ø4.0	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.20	0.40	3.00	39	**3170R-2-0.20**	●				
0.30	0.60	3.00	39	**3170R-2-0.30**	●	●	●	●	●
0.40	0.80	3.00	39	**3170R-2-0.40**	●	●	●	●	●
0.50	1.00	3.00	39	**3170R-2-0.50**	●	●	●	●	●
0.60	1.20	3.00	39	**3170R-2-0.60**	●	●	●	●	●
0.70	1.40	3.00	39	**3170R-2-0.70**	●	●	●	●	●
0.80	1.60	3.00	39	**3170R-2-0.80**	●	●	●	●	●
0.90	1.80	3.00	39	**3170R-2-0.90**	●	●	●	●	●
1.00	2.00	3.00	39	**3170R-2-1.00**	●	●	●	●	●
1.10	2.20	3.00	39	**3170R-2-1.10**	●	●	●	●	●
1.20	2.40	3.00	39	**3170R-2-1.20**	●	●	●	●	●
1.30	2.60	3.00	39	**3170R-2-1.30**	●	●	●	●	●
1.40	2.80	3.00	39	**3170R-2-1.40**	●	●	●	●	●
1.50	3.00	3.00	39	**3170R-2-1.50**	●	●	●	●	●
1.60	3.20	3.00	39	**3170R-2-1.60**	●	●	●	●	●
1.70	3.40	3.00	39	**3170R-2-1.70**	●	●	●	●	●
1.80	3.60	3.00	39	**3170R-2-1.80**	●	●	●	●	●
1.90	3.80	3.00	39	**3170R-2-1.90**	●	●	●	●	●
2.00	4.00	3.00	39	**3170R-2-2.00**	●	●	●	●	●
2.10	4.10	3.00	39	**3170R-2-2.10**	●	●	●	●	●
2.20	4.40	3.00	39	**3170R-2-2.20**	●	●	●	●	●
2.30	4.60	3.00	39	**3170R-2-2.30**	●	●	●	●	●
2.40	4.80	3.00	39	**3170R-2-2.40**	●	●	●	●	●
2.50	5.00	3.00	39	**3170R-2-2.50**	●	●	●	●	●
2.60	5.20	3.00	39	**3170R-2-2.60**	●	●	●	●	●
2.70	5.40	3.00	39	**3170R-2-2.70**	●	●	●	●	●
2.80	5.60	3.00	39	**3170R-2-2.80**	●	●	●	●	●
2.90	5.80	3.00	39	**3170R-2-2.90**	●	●	●	●	●
3.00	6.00	4.00	40	**3170R-2-3.00**	●	●	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3170R-3

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

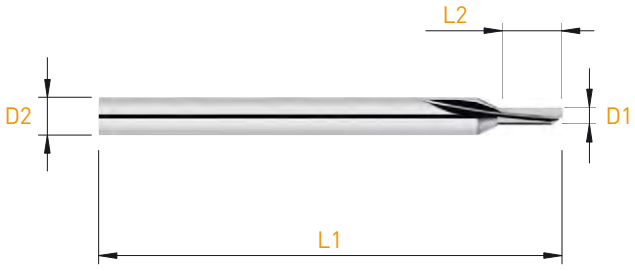


MD VHM HM | λ 0° | Sharp Corner | 3xD1 | Z=1

D1 +0.005 / -0.010	L2	D2 h4 Ø3.0 h5 Ø4.0	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.20	0.60	3.00	39	**3170R-3-0.20**	●				
0.30	0.90	3.00	39	**3170R-3-0.30**	●	●	●	●	●
0.40	1.20	3.00	39	**3170R-3-0.40**	●	●	●	●	●
0.50	1.50	3.00	39	**3170R-3-0.50**	●	●	●	●	●
0.60	1.80	3.00	39	**3170R-3-0.60**	●	●	●	●	●
0.70	2.10	3.00	39	**3170R-3-0.70**	●	●	●	●	●
0.80	2.40	3.00	39	**3170R-3-0.80**	●	●	●	●	●
0.90	2.70	3.00	39	**3170R-3-0.90**	●	●	●	●	●
1.00	3.00	3.00	39	**3170R-3-1.00**	●	●	●	●	●
1.10	3.30	3.00	39	**3170R-3-1.10**	●	●	●	●	●
1.20	3.60	3.00	39	**3170R-3-1.20**	●	●	●	●	●
1.30	3.90	3.00	39	**3170R-3-1.30**	●	●	●	●	●
1.40	4.20	3.00	39	**3170R-3-1.40**	●	●	●	●	●
1.50	4.50	3.00	39	**3170R-3-1.50**	●	●	●	●	●
2.00	6.00	3.00	39	**3170R-3-2.00**	●	●	●	●	●
2.50	7.50	3.00	39	**3170R-3-2.50**	●	●	●	●	●
3.00	9.00	4.00	40	**3170R-3-3.00**	●	●	●	●	●

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

3170R-4



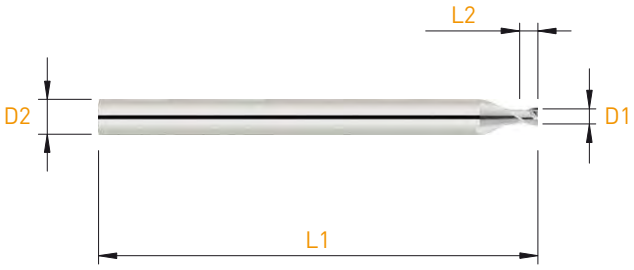
MD VHM HM | λ 0° | Sharp Corner | 4xD1 | Z=1

D1 +0.005 / -0.010	L2	D2 h4 Ø3.0 h5 Ø4.0	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.30	1.20	3.00	39	**3170R-4-0.30**	●	●	●	●	●
0.40	1.60	3.00	39	**3170R-4-0.40**	●	●	●	●	●
0.50	2.00	3.00	39	**3170R-4-0.50**	●	●	●	●	●
0.60	2.40	3.00	39	**3170R-4-0.60**	●	●	●	●	●
0.70	2.80	3.00	39	**3170R-4-0.70**	●	●	●	●	●
0.80	3.20	3.00	39	**3170R-4-0.80**	●	●	●	●	●
0.90	3.60	3.00	39	**3170R-4-0.90**	●	●	●	●	●
1.00	4.00	3.00	39	**3170R-4-1.00**	●	●	●	●	●
1.10	4.40	3.00	39	**3170R-4-1.10**	●	●	●	●	●
1.20	4.80	3.00	39	**3170R-4-1.20**	●	●	●	●	●
1.30	5.20	3.00	39	**3170R-4-1.30**	●	●	●	●	●
1.40	5.60	3.00	39	**3170R-4-1.40**	●	●	●	●	●
1.50	6.00	3.00	39	**3170R-4-1.50**	●	●	●	●	●
2.00	8.00	3.00	39	**3170R-4-2.00**	●	●	●	●	●
2.50	10.00	3.00	39	**3170R-4-2.50**	●	●	●	●	●
3.00	12.00	4.00	40	**3170R-4-3.00**	●	●	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3271-0.75

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

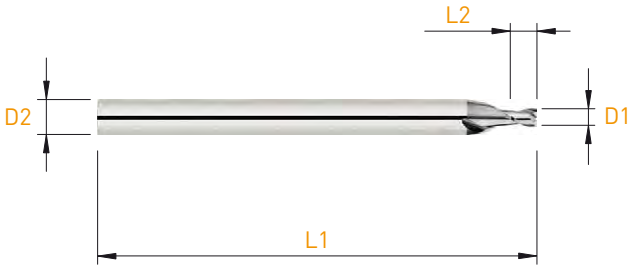


MD VHM HM | λ 30° | Sharp Corner | 0.75xD1 | Z=2

D1 +0.005 / -0.010	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.20	0.15	3.00	39	**3271-0.75-0.20**	●				
0.30	0.25	3.00	39	**3271-0.75-0.30**	●	●	●	●	●
0.40	0.30	3.00	39	**3271-0.75-0.40**	●	●	●	●	●
0.50	0.37	3.00	39	**3271-0.75-0.50**	●	●	●	●	●
0.60	0.45	3.00	39	**3271-0.75-0.60**	●	●	●	●	●
0.70	0.53	3.00	39	**3271-0.75-0.70**	●	●	●	●	●
0.80	0.60	3.00	39	**3271-0.75-0.80**	●	●	●	●	●
0.90	0.70	3.00	39	**3271-0.75-0.90**	●	●	●	●	●
1.00	0.75	3.00	39	**3271-0.75-1.00**	●	●	●	●	●
1.10	0.90	3.00	39	**3271-0.75-1.10**	●	●	●	●	●
1.20	0.90	3.00	39	**3271-0.75-1.20**	●	●	●	●	●
1.30	1.00	3.00	39	**3271-0.75-1.30**	●	●	●	●	●
1.40	1.10	3.00	39	**3271-0.75-1.40**	●	●	●	●	●
1.50	1.15	3.00	39	**3271-0.75-1.50**	●	●	●	●	●
1.60	1.20	3.00	39	**3271-0.75-1.60**	●	●	●	●	●
1.70	1.30	3.00	39	**3271-0.75-1.70**	●	●	●	●	●
1.80	1.40	3.00	39	**3271-0.75-1.80**	●	●	●	●	●
1.90	1.45	3.00	39	**3271-0.75-1.90**	●	●	●	●	●
2.00	1.50	3.00	39	**3271-0.75-2.00**	●	●	●	●	●

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

3271-1



MD
VHM
HM

λ 30°

Sharp Corner

1xD1

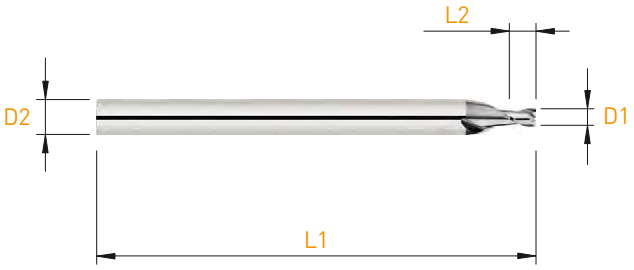
Z=2

D1 +0.005 / -0.010	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.30	0.30	3.00	39	**3271-1-0.30**	●	●	●	●	●
0.40	0.40	3.00	39	**3271-1-0.40**	●	●	●	●	●
0.50	0.50	3.00	39	**3271-1-0.50**	●	●	●	●	●
0.60	0.60	3.00	39	**3271-1-0.60**	●	●	●	●	●
0.70	0.70	3.00	39	**3271-1-0.70**	●	●	●	●	●
0.80	0.80	3.00	39	**3271-1-0.80**	●	●	●	●	●
0.90	0.90	3.00	39	**3271-1-0.90**	●	●	●	●	●
1.00	1.00	3.00	39	**3271-1-1.00**	●	●	●	●	●
1.10	1.10	3.00	39	**3271-1-1.10**	●	●	●	●	●
1.20	1.20	3.00	39	**3271-1-1.20**	●	●	●	●	●
1.30	1.30	3.00	39	**3271-1-1.30**	●	●	●	●	●
1.40	1.40	3.00	39	**3271-1-1.40**	●	●	●	●	●
1.50	1.50	3.00	39	**3271-1-1.50**	●	●	●	●	●
1.60	1.60	3.00	39	**3271-1-1.60**	●	●	●	●	●
1.70	1.70	3.00	39	**3271-1-1.70**	●	●	●	●	●
1.80	1.80	3.00	39	**3271-1-1.80**	●	●	●	●	●
1.90	1.90	3.00	39	**3271-1-1.90**	●	●	●	●	●
2.00	2.00	3.00	39	**3271-1-2.00**	●	●	●	●	●
2.50	2.50	3.00	39	**3271-1-2.50**	●	●	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3271-1.5

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills



MD
VHM
HM

λ 30°

Sharp Corner

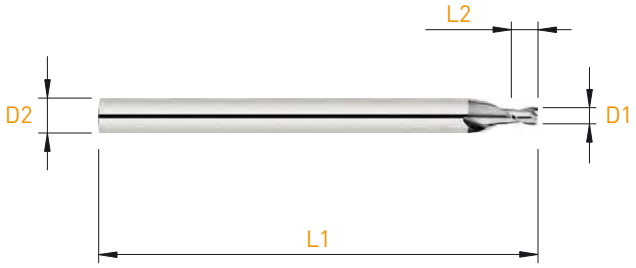
1.5xD1

Z=2

D1 +0.005 / -0.010	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.10	0.15	3.00	39	**3271-1.5-0.10**	●				
0.15	0.20	3.00	39	**3271-1.5-0.15**	●				
0.20	0.30	3.00	39	**3271-1.5-0.20**	●				
0.25	0.35	3.00	39	**3271-1.5-0.25**	●				
0.30	0.45	3.00	39	**3271-1.5-0.30**	●	●	●	●	●
0.40	0.60	3.00	39	**3271-1.5-0.40**	●	●	●	●	●
0.45	0.70	3.00	39	**3271-1.5-0.45**	●	●	●	●	●
0.50	0.75	3.00	39	**3271-1.5-0.50**	●	●	●	●	●
0.60	0.90	3.00	39	**3271-1.5-0.60**	●	●	●	●	●
0.70	1.05	3.00	39	**3271-1.5-0.70**	●	●	●	●	●
0.80	1.20	3.00	39	**3271-1.5-0.80**	●	●	●	●	●
0.90	1.35	3.00	39	**3271-1.5-0.90**	●	●	●	●	●
1.00	1.50	3.00	39	**3271-1.5-1.00**	●	●	●	●	●
1.10	1.65	3.00	39	**3271-1.5-1.10**	●	●	●	●	●
1.20	1.80	3.00	39	**3271-1.5-1.20**	●	●	●	●	●
1.30	1.95	3.00	39	**3271-1.5-1.30**	●	●	●	●	●
1.40	2.10	3.00	39	**3271-1.5-1.40**	●	●	●	●	●
1.50	2.25	3.00	39	**3271-1.5-1.50**	●	●	●	●	●
1.60	2.40	3.00	39	**3271-1.5-1.60**	●	●	●	●	●
1.70	2.55	3.00	39	**3271-1.5-1.70**	●	●	●	●	●
1.80	2.70	3.00	39	**3271-1.5-1.80**	●	●	●	●	●
1.90	2.85	3.00	39	**3271-1.5-1.90**	●	●	●	●	●
2.00	3.00	3.00	39	**3271-1.5-2.00**	●	●	●	●	●

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

3271-2



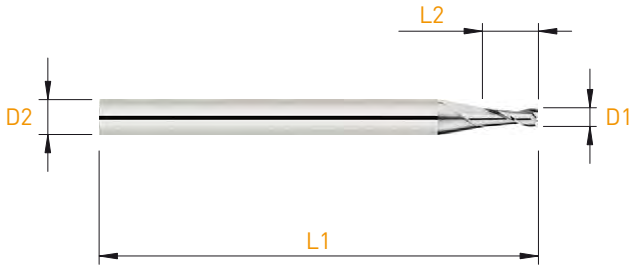
MD VHM HM | λ 30° | Sharp Corner | 2xD1 | Z=2

D1 +0.005 / -0.010	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.10	0.20	3.00	39	**3271-2-0.10**	●				
0.15	0.30	3.00	39	**3271-2-0.15**	●				
0.20	0.40	3.00	39	**3271-2-0.20**	●				
0.25	0.50	3.00	39	**3271-2-0.25**	●				
0.30	0.60	3.00	39	**3271-2-0.30**	●	●	●	●	●
0.40	0.80	3.00	39	**3271-2-0.40**	●	●	●	●	●
0.50	1.00	3.00	39	**3271-2-0.50**	●	●	●	●	●
0.60	1.20	3.00	39	**3271-2-0.60**	●	●	●	●	●
0.70	1.40	3.00	39	**3271-2-0.70**	●	●	●	●	●
0.80	1.60	3.00	39	**3271-2-0.80**	●	●	●	●	●
0.90	1.80	3.00	39	**3271-2-0.90**	●	●	●	●	●
1.00	2.00	3.00	39	**3271-2-1.00**	●	●	●	●	●
1.10	2.20	3.00	39	**3271-2-1.10**	●	●	●	●	●
1.20	2.40	3.00	39	**3271-2-1.20**	●	●	●	●	●
1.30	2.60	3.00	39	**3271-2-1.30**	●	●	●	●	●
1.40	2.80	3.00	39	**3271-2-1.40**	●	●	●	●	●
1.50	3.00	3.00	39	**3271-2-1.50**	●	●	●	●	●
1.60	3.20	3.00	39	**3271-2-1.60**	●	●	●	●	●
1.70	3.40	3.00	39	**3271-2-1.70**	●	●	●	●	●
1.80	3.60	3.00	39	**3271-2-1.80**	●	●	●	●	●
1.90	3.80	3.00	39	**3271-2-1.90**	●	●	●	●	●
2.00	4.00	3.00	39	**3271-2-2.00**	●	●	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3271-3

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills



MD
VHM
HM

λ 30°

Sharp Corner

3xD1

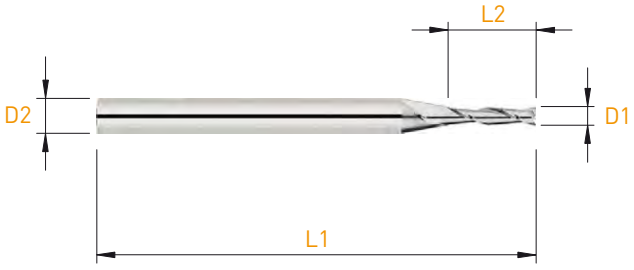
Z=2

D1 +0.005 / -0.010	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.10	0.25	3.00	39	**3271-3-0.10**	●				
0.15	0.45	3.00	39	**3271-3-0.15**	●				
0.20	0.50	3.00	39	**3271-3-0.20**	●				
0.25	0.75	3.00	39	**3271-3-0.25**	●				
0.30	1.00	3.00	39	**3271-3-0.30**	●	●	●	●	●
0.35	1.10	3.00	39	**3271-3-0.35**	●	●	●	●	●
0.40	1.20	3.00	39	**3271-3-0.40**	●	●	●	●	●
0.50	1.50	3.00	39	**3271-3-0.50**	●	●	●	●	●
0.60	2.00	3.00	39	**3271-3-0.60**	●	●	●	●	●
0.65	2.00	3.00	39	**3271-3-0.65**	●	●	●	●	●
0.70	2.00	3.00	39	**3271-3-0.70**	●	●	●	●	●
0.75	2.00	3.00	39	**3271-3-0.75**	●	●	●	●	●
0.80	2.50	3.00	39	**3271-3-0.80**	●	●	●	●	●
0.90	2.50	3.00	39	**3271-3-0.90**	●	●	●	●	●
0.95	3.00	3.00	39	**3271-3-0.95**	●	●	●	●	●
1.00	3.00	3.00	39	**3271-3-1.00**	●	●	●	●	●
1.05	3.00	3.00	39	**3271-3-1.05**	●	●	●	●	●
1.10	3.00	3.00	39	**3271-3-1.10**	●	●	●	●	●
1.15	3.50	3.00	39	**3271-3-1.15**	●	●	●	●	●
1.20	4.00	3.00	39	**3271-3-1.20**	●	●	●	●	●
1.30	4.00	3.00	39	**3271-3-1.30**	●	●	●	●	●
1.35	4.00	3.00	39	**3271-3-1.35**	●	●	●	●	●
1.40	4.00	3.00	39	**3271-3-1.40**	●	●	●	●	●
1.45	4.40	3.00	39	**3271-3-1.45**	●	●	●	●	●
1.50	4.50	3.00	39	**3271-3-1.50**	●	●	●	●	●
1.55	4.50	3.00	39	**3271-3-1.55**	●	●	●	●	●
1.60	4.50	3.00	39	**3271-3-1.60**	●	●	●	●	●
1.65	5.00	3.00	39	**3271-3-1.65**	●	●	●	●	●
1.70	5.00	3.00	39	**3271-3-1.70**	●	●	●	●	●
1.75	5.30	3.00	39	**3271-3-1.75**	●	●	●	●	●

D1 +0.005 / -0.010	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
1.80	6.00	3.00	39	**3271-3-1.80**	●	●	●	●	●
1.85	6.00	3.00	39	**3271-3-1.85**	●	●	●	●	●
1.90	6.00	3.00	39	**3271-3-1.90**	●	●	●	●	●
1.95	6.00	3.00	39	**3271-3-1.95**	●	●	●	●	●
2.00	6.00	3.00	39	**3271-3-2.00**	●	●	●	●	●
2.10	6.00	3.00	39	**3271-3-2.10**	●	●	●	●	●
2.20	6.50	3.00	39	**3271-3-2.20**	●	●	●	●	●
2.30	7.00	3.00	39	**3271-3-2.30**	●	●	●	●	●
2.40	7.00	3.00	39	**3271-3-2.40**	●	●	●	●	●
2.50	7.50	3.00	39	**3271-3-2.50**	●	●	●	●	●
2.60	7.50	3.00	39	**3271-3-2.60**	●	●	●	●	●
2.70	8.00	3.00	39	**3271-3-2.70**	●	●	●	●	●
2.80	8.00	3.00	39	**3271-3-2.80**	●	●	●	●	●
2.90	8.00	3.00	39	**3271-3-2.90**	●	●	●	●	●

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

3271-5



MD
VHM
HM

λ 30°

Sharp Corner

5xD1

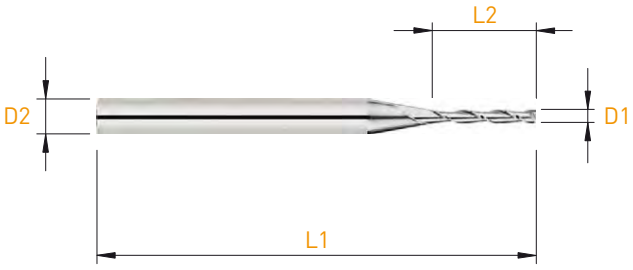
Z=2

D1 +0.005 / -0.010	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.30	1.50	3.00	39	**3271-5-0.30**	●	●	●	●	●
0.35	1.80	3.00	39	**3271-5-0.35**	●	●	●	●	●
0.40	2.00	3.00	39	**3271-5-0.40**	●	●	●	●	●
0.50	2.50	3.00	39	**3271-5-0.50**	●	●	●	●	●
0.55	2.80	3.00	39	**3271-5-0.55**	●	●	●	●	●
0.60	3.00	3.00	39	**3271-5-0.60**	●	●	●	●	●
0.65	3.30	3.00	39	**3271-5-0.65**	●	●	●	●	●
0.70	3.50	3.00	39	**3271-5-0.70**	●	●	●	●	●
0.75	3.80	3.00	39	**3271-5-0.75**	●	●	●	●	●
0.80	4.00	3.00	39	**3271-5-0.80**	●	●	●	●	●
0.85	4.30	3.00	39	**3271-5-0.85**	●	●	●	●	●
0.90	4.50	3.00	39	**3271-5-0.90**	●	●	●	●	●
0.95	4.80	3.00	39	**3271-5-0.95**	●	●	●	●	●
1.00	5.00	3.00	39	**3271-5-1.00**	●	●	●	●	●
1.10	5.50	3.00	39	**3271-5-1.10**	●	●	●	●	●
1.20	6.00	3.00	39	**3271-5-1.20**	●	●	●	●	●
1.50	7.50	3.00	39	**3271-5-1.50**	●	●	●	●	●
2.00	10.00	3.00	39	**3271-5-2.00**	●	●	●	●	●
2.50	12.50	3.00	39	**3271-5-2.50**	●	●	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3271-8

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills



MD
VHM
HM

λ 30°

Sharp Corner

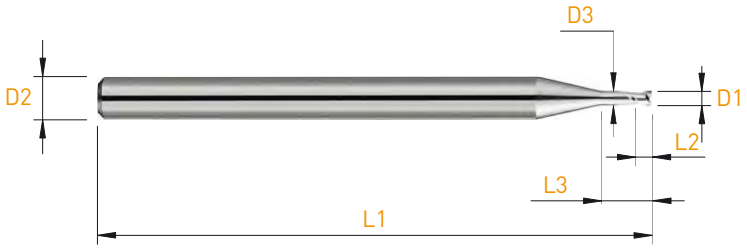
8xD1

Z=2

D1 +0.005 / -0.010	L2	D2 h4 Ø3.0 h5 Ø4.0	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.40	3.20	3.00	39	**3271-8-0.40**	●	●	●	●	●
0.50	4.00	3.00	39	**3271-8-0.50**	●	●	●	●	●
0.60	5.00	3.00	39	**3271-8-0.60**	●	●	●	●	●
0.70	5.60	3.00	39	**3271-8-0.70**	●	●	●	●	●
0.80	6.00	3.00	39	**3271-8-0.80**	●	●	●	●	●
0.90	7.20	3.00	39	**3271-8-0.90**	●	●	●	●	●
1.00	8.00	3.00	39	**3271-8-1.00**	●	●	●	●	●
1.20	9.00	3.00	39	**3271-8-1.20**	●	●	●	●	●
1.50	12.00	4.00	50	**3271-8-1.50**	●	●	●	●	●
2.00	16.00	4.00	50	**3271-8-2.00**	●	●	●	●	●
2.50	20.00	4.00	50	**3271-8-2.50**	●	●	●	●	●

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

3270S-3X



MD
VHM
HM

λ 30°

Sharp Corner

L3
3xD1

Z=2

D1 +0.005 / -0.010	L2	L3	D3	D2 h4 Ø3.0 h5 Ø6.0	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.20	0.40	0.60	0.17	3.00	39	**3270S-3X-0.20**	●				
0.30	0.60	0.90	0.27	3.00	39	**3270S-3X-0.30**	●	●	●	●	●
0.40	0.80	1.20	0.37	3.00	39	**3270S-3X-0.40**	●	●	●	●	●
0.50	1.00	1.50	0.45	3.00	39	**3270S-3X-0.50**	●	●	●	●	●
0.60	1.20	1.80	0.55	3.00	39	**3270S-3X-0.60**	●	●	●	●	●
0.70	1.40	2.10	0.65	3.00	39	**3270S-3X-0.70**	●	●	●	●	●
0.80	1.60	2.40	0.75	3.00	39	**3270S-3X-0.80**	●	●	●	●	●
0.90	1.80	2.70	0.85	3.00	39	**3270S-3X-0.90**	●	●	●	●	●
1.00	2.00	3.00	0.95	3.00	39	**3270S-3X-1.00**	●	●	●	●	●
1.10	2.20	3.30	1.05	3.00	39	**3270S-3X-1.10**	●	●	●	●	●
1.20	2.40	3.60	1.15	3.00	39	**3270S-3X-1.20**	●	●	●	●	●
1.30	2.60	3.90	1.25	3.00	39	**3270S-3X-1.30**	●	●	●	●	●
1.40	2.80	4.20	1.35	3.00	39	**3270S-3X-1.40**	●	●	●	●	●
1.50	3.00	4.50	1.45	3.00	39	**3270S-3X-1.50**	●	●	●	●	●
1.60	3.20	4.80	1.55	3.00	39	**3270S-3X-1.60**	●	●	●	●	●
1.70	3.40	5.10	1.65	3.00	39	**3270S-3X-1.70**	●	●	●	●	●
1.80	3.60	5.40	1.75	3.00	39	**3270S-3X-1.80**	●	●	●	●	●
1.90	3.80	5.70	1.85	3.00	39	**3270S-3X-1.90**	●	●	●	●	●
2.00	4.00	6.00	1.95	6.00	50	**3270S-3X-2.00**	●	●	●	●	●
2.10	4.20	6.30	2.05	6.00	50	**3270S-3X-2.10**	●	●	●	●	●
2.20	4.40	6.60	2.15	6.00	50	**3270S-3X-2.20**	●	●	●	●	●
2.30	4.60	6.90	2.25	6.00	50	**3270S-3X-2.30**	●	●	●	●	●
2.40	4.80	7.20	2.35	6.00	50	**3270S-3X-2.40**	●	●	●	●	●
2.50	5.00	7.50	2.45	6.00	50	**3270S-3X-2.50**	●	●	●	●	●
3.00	6.00	9.00	2.95	6.00	50	**3270S-3X-3.00**	●	●	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3270S-6X

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

MD
VHM
HM

λ 30°

Sharp Corner

L3
6xD1

Z=2

D1 +0.005 / -0.010	L2	L3	D3	D2 h4 Ø3.0 h5 Ø6.0	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.30	0.60	1.80	0.27	3.00	39	**3270S-6X-0.30**	●	●	●	●	●
0.40	0.80	2.40	0.37	3.00	39	**3270S-6X-0.40**	●	●	●	●	●
0.50	1.00	3.00	0.45	3.00	39	**3270S-6X-0.50**	●	●	●	●	●
0.60	1.20	3.60	0.55	3.00	39	**3270S-6X-0.60**	●	●	●	●	●
0.70	1.40	4.20	0.65	3.00	39	**3270S-6X-0.70**	●	●	●	●	●
0.80	1.60	4.80	0.75	3.00	39	**3270S-6X-0.80**	●	●	●	●	●
0.90	1.80	5.40	0.85	3.00	39	**3270S-6X-0.90**	●	●	●	●	●
1.00	2.00	6.00	0.95	3.00	39	**3270S-6X-1.00**	●	●	●	●	●
1.10	2.20	6.60	1.05	3.00	39	**3270S-6X-1.10**	●	●	●	●	●
1.20	2.40	7.20	1.15	3.00	39	**3270S-6X-1.20**	●	●	●	●	●
1.30	2.60	7.80	1.25	3.00	39	**3270S-6X-1.30**	●	●	●	●	●
1.40	2.80	8.40	1.35	3.00	39	**3270S-6X-1.40**	●	●	●	●	●
1.50	3.00	9.00	1.45	3.00	39	**3270S-6X-1.50**	●	●	●	●	●
1.60	3.20	9.60	1.55	3.00	39	**3270S-6X-1.60**	●	●	●	●	●
1.70	3.40	10.20	1.65	3.00	39	**3270S-6X-1.70**	●	●	●	●	●
1.80	3.60	10.80	1.75	3.00	39	**3270S-6X-1.80**	●	●	●	●	●
1.90	3.80	11.40	1.85	3.00	39	**3270S-6X-1.90**	●	●	●	●	●
2.00	4.00	12.00	1.95	6.00	50	**3270S-6X-2.00**	●	●	●	●	●
2.10	4.20	12.60	2.05	6.00	50	**3270S-6X-2.10**	●	●	●	●	●
2.20	4.40	13.20	2.15	6.00	50	**3270S-6X-2.20**	●	●	●	●	●
2.30	4.60	13.80	2.25	6.00	50	**3270S-6X-2.30**	●	●	●	●	●
2.40	4.80	14.40	2.35	6.00	50	**3270S-6X-2.40**	●	●	●	●	●
2.50	5.00	15.00	2.45	6.00	50	**3270S-6X-2.50**	●	●	●	●	●
3.00	6.00	18.00	2.95	6.00	50	**3270S-6X-3.00**	●	●	●	●	●

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

3270S-9X

MD
VHM
HM

λ 30°

Sharp Corner

L3
9xD1

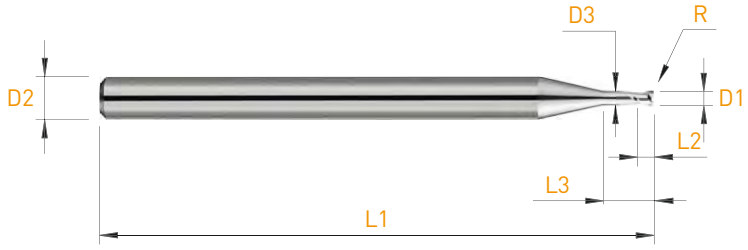
Z=2

D1 +0.005 / -0.010	L2	L3	D3	D2 h4 Ø3.0 h5 Ø6.0	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.40	0.80	3.60	0.37	3.00	39	**3270S-9X-0.40**	●	●	●	●	●
0.50	1.00	4.50	0.45	3.00	39	**3270S-9X-0.50**	●	●	●	●	●
0.60	1.20	5.40	0.55	3.00	39	**3270S-9X-0.60**	●	●	●	●	●
0.70	1.40	6.30	0.65	3.00	39	**3270S-9X-0.70**	●	●	●	●	●
0.80	1.60	7.20	0.75	3.00	39	**3270S-9X-0.80**	●	●	●	●	●
0.90	1.80	8.10	0.85	3.00	39	**3270S-9X-0.90**	●	●	●	●	●
1.00	2.00	9.00	0.95	3.00	39	**3270S-9X-1.00**	●	●	●	●	●
1.10	2.20	9.90	1.05	3.00	39	**3270S-9X-1.10**	●	●	●	●	●
1.20	2.40	10.80	1.15	3.00	39	**3270S-9X-1.20**	●	●	●	●	●
1.30	2.60	11.70	1.25	3.00	39	**3270S-9X-1.30**	●	●	●	●	●
1.40	2.80	12.60	1.35	3.00	39	**3270S-9X-1.40**	●	●	●	●	●
1.50	3.00	13.50	1.45	3.00	39	**3270S-9X-1.50**	●	●	●	●	●
1.60	3.20	14.40	1.55	3.00	39	**3270S-9X-1.60**	●	●	●	●	●
1.70	3.40	15.30	1.65	3.00	39	**3270S-9X-1.70**	●	●	●	●	●
1.80	3.60	16.20	1.75	3.00	39	**3270S-9X-1.80**	●	●	●	●	●
1.90	3.80	17.10	1.85	3.00	39	**3270S-9X-1.90**	●	●	●	●	●
2.00	4.00	18.00	1.95	6.00	50	**3270S-9X-2.00**	●	●	●	●	●
2.10	4.20	18.90	2.05	6.00	50	**3270S-9X-2.10**	●	●	●	●	●
2.20	4.40	19.80	2.15	6.00	50	**3270S-9X-2.20**	●	●	●	●	●
2.30	4.60	20.70	2.25	6.00	50	**3270S-9X-2.30**	●	●	●	●	●
2.40	4.80	21.60	2.35	6.00	50	**3270S-9X-2.40**	●	●	●	●	●
2.50	5.00	22.50	2.45	6.00	50	**3270S-9X-2.50**	●	●	●	●	●
3.00	6.00	27.00	2.95	6.00	50	**3270S-9X-3.00**	●	●	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3279T-3X

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

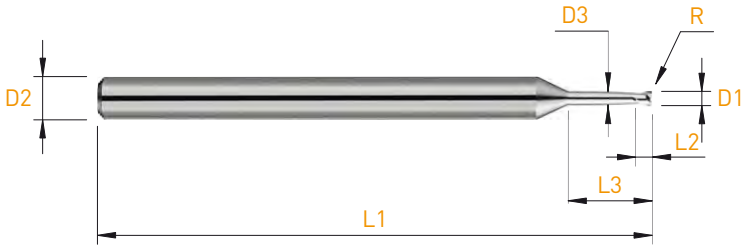


MD VHM HM | λ 30° | Radius Corner | L3 3xD1 | Z=2

D1 +0.005 / -0.010	R +/- 0.02	L2	L3	D3	D2 h4 Ø3.0 h5 Ø6.0	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.30	0.05	0.60	0.90	0.27	3.00	39	**3279T-3X-0.30**	●	●	●	●	●
0.40	0.05	0.80	1.20	0.37	3.00	39	**3279T-3X-0.40**	●	●	●	●	●
0.50	0.05	1.00	1.50	0.45	3.00	39	**3279T-3X-0.50**	●	●	●	●	●
0.60	0.05	1.20	1.80	0.55	3.00	39	**3279T-3X-0.60**	●	●	●	●	●
0.70	0.05	1.40	2.10	0.65	3.00	39	**3279T-3X-0.70**	●	●	●	●	●
0.80	0.05	1.60	2.40	0.75	3.00	39	**3279T-3X-0.80**	●	●	●	●	●
0.90	0.05	1.80	2.70	0.85	3.00	39	**3279T-3X-0.90**	●	●	●	●	●
1.00	0.10	2.00	3.00	0.95	3.00	39	**3279T-3X-1.00**	●	●	●	●	●
1.10	0.10	2.20	3.30	1.05	3.00	39	**3279T-3X-1.10**	●	●	●	●	●
1.20	0.10	2.40	3.60	1.15	3.00	39	**3279T-3X-1.20**	●	●	●	●	●
1.30	0.10	2.60	3.90	1.25	3.00	39	**3279T-3X-1.30**	●	●	●	●	●
1.40	0.10	2.80	4.20	1.35	3.00	39	**3279T-3X-1.40**	●	●	●	●	●
1.50	0.20	3.00	4.50	1.45	3.00	39	**3279T-3X-1.50**	●	●	●	●	●
1.60	0.20	3.20	4.80	1.55	3.00	39	**3279T-3X-1.60**	●	●	●	●	●
1.70	0.20	3.40	5.10	1.65	3.00	39	**3279T-3X-1.70**	●	●	●	●	●
1.80	0.20	3.60	5.40	1.75	3.00	39	**3279T-3X-1.80**	●	●	●	●	●
1.90	0.20	3.80	5.70	1.85	3.00	39	**3279T-3X-1.90**	●	●	●	●	●
2.00	0.20	4.00	6.00	1.95	6.00	50	**3279T-3X-2.00**	●	●	●	●	●
2.10	0.20	4.20	6.30	2.05	6.00	50	**3279T-3X-2.10**	●	●	●	●	●
2.20	0.20	4.40	6.60	2.15	6.00	50	**3279T-3X-2.20**	●	●	●	●	●
2.30	0.20	4.60	6.90	2.25	6.00	50	**3279T-3X-2.30**	●	●	●	●	●
2.40	0.20	4.80	7.20	2.35	6.00	50	**3279T-3X-2.40**	●	●	●	●	●
2.50	0.20	5.00	7.50	2.45	6.00	50	**3279T-3X-2.50**	●	●	●	●	●
3.00	0.20	6.00	9.00	2.95	6.00	50	**3279T-3X-3.00**	●	●	●	●	●

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

3279T-6X



MD VHM HM | λ 30° | Radius Corner | L3 6xD1 | Z=2

D1 +0.005 / -0.010	R +/- 0.02	L2	L3	D3	D2 h4 Ø3.0 h5 Ø6.0	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.30	0.05	0.60	1.80	0.27	3.00	39	**3279T-6X-0.30**	●	●	●	●	●
0.40	0.05	0.80	2.40	0.37	3.00	39	**3279T-6X-0.40**	●	●	●	●	●
0.50	0.05	1.00	3.00	0.45	3.00	39	**3279T-6X-0.50**	●	●	●	●	●
0.60	0.05	1.20	3.60	0.55	3.00	39	**3279T-6X-0.60**	●	●	●	●	●
0.70	0.05	1.40	4.20	0.65	3.00	39	**3279T-6X-0.70**	●	●	●	●	●
0.80	0.05	1.60	4.80	0.75	3.00	39	**3279T-6X-0.80**	●	●	●	●	●
0.90	0.05	1.80	5.40	0.85	3.00	39	**3279T-6X-0.90**	●	●	●	●	●
1.00	0.10	2.00	6.00	0.95	3.00	39	**3279T-6X-1.00**	●	●	●	●	●
1.10	0.10	2.20	6.60	1.05	3.00	39	**3279T-6X-1.10**	●	●	●	●	●
1.20	0.10	2.40	7.20	1.15	3.00	39	**3279T-6X-1.20**	●	●	●	●	●
1.30	0.10	2.60	7.80	1.25	3.00	39	**3279T-6X-1.30**	●	●	●	●	●
1.40	0.10	2.80	8.40	1.35	3.00	39	**3279T-6X-1.40**	●	●	●	●	●
1.50	0.20	3.00	9.00	1.45	3.00	39	**3279T-6X-1.50**	●	●	●	●	●
1.60	0.20	3.20	9.60	1.55	3.00	39	**3279T-6X-1.60**	●	●	●	●	●
1.70	0.20	3.40	10.20	1.65	3.00	39	**3279T-6X-1.70**	●	●	●	●	●
1.80	0.20	3.60	10.80	1.75	3.00	39	**3279T-6X-1.80**	●	●	●	●	●
1.90	0.20	3.80	11.40	1.85	3.00	39	**3279T-6X-1.90**	●	●	●	●	●
2.00	0.20	4.00	12.00	1.95	6.00	50	**3279T-6X-2.00**	●	●	●	●	●
2.10	0.20	4.20	12.60	2.05	6.00	50	**3279T-6X-2.10**	●	●	●	●	●
2.20	0.20	4.40	13.20	2.15	6.00	50	**3279T-6X-2.20**	●	●	●	●	●
2.30	0.20	4.60	13.80	2.25	6.00	50	**3279T-6X-2.30**	●	●	●	●	●
2.40	0.20	4.80	14.40	2.35	6.00	50	**3279T-6X-2.40**	●	●	●	●	●
2.50	0.20	5.00	15.00	2.45	6.00	50	**3279T-6X-2.50**	●	●	●	●	●
3.00	0.20	6.00	18.00	2.95	6.00	50	**3279T-6X-3.00**	●	●	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3279T-9X

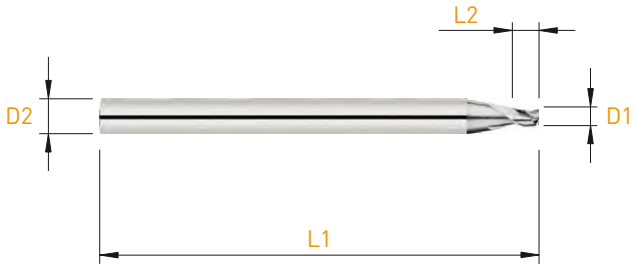
Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

MD VHM HM | λ 30° | Radius Corner | L3 9xD1 | Z=2

D1 +0.005 / -0.010	R +/- 0.02	L2	L3	D3	D2 h4 Ø3.0 h5 Ø6.0	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.40	0.05	0.80	3.60	0.37	3.00	39	**3279T-9X-0.40**	●	●	●	●	●
0.50	0.05	1.00	4.50	0.45	3.00	39	**3279T-9X-0.50**	●	●	●	●	●
0.60	0.05	1.20	5.40	0.55	3.00	39	**3279T-9X-0.60**	●	●	●	●	●
0.70	0.05	1.40	6.30	0.65	3.00	39	**3279T-9X-0.70**	●	●	●	●	●
0.80	0.05	1.60	7.20	0.75	3.00	39	**3279T-9X-0.80**	●	●	●	●	●
0.90	0.05	1.80	8.10	0.85	3.00	39	**3279T-9X-0.90**	●	●	●	●	●
1.00	0.10	2.00	9.00	0.95	3.00	39	**3279T-9X-1.00**	●	●	●	●	●
1.10	0.10	2.20	9.90	1.05	3.00	39	**3279T-9X-1.10**	●	●	●	●	●
1.20	0.10	2.40	10.80	1.15	3.00	39	**3279T-9X-1.20**	●	●	●	●	●
1.30	0.10	2.60	11.70	1.25	3.00	39	**3279T-9X-1.30**	●	●	●	●	●
1.40	0.10	2.80	12.60	1.35	3.00	39	**3279T-9X-1.40**	●	●	●	●	●
1.50	0.20	3.00	13.50	1.45	3.00	39	**3279T-9X-1.50**	●	●	●	●	●
1.60	0.20	3.20	14.40	1.55	3.00	39	**3279T-9X-1.60**	●	●	●	●	●
1.70	0.20	3.40	15.30	1.65	3.00	39	**3279T-9X-1.70**	●	●	●	●	●
1.80	0.20	3.60	16.20	1.75	3.00	39	**3279T-9X-1.80**	●	●	●	●	●
1.90	0.20	3.80	17.10	1.85	3.00	39	**3279T-9X-1.90**	●	●	●	●	●
2.00	0.20	4.00	18.00	1.95	6.00	50	**3279T-9X-2.00**	●	●	●	●	●
2.10	0.20	4.20	18.90	2.05	6.00	50	**3279T-9X-2.10**	●	●	●	●	●
2.20	0.20	4.40	19.80	2.15	6.00	50	**3279T-9X-2.20**	●	●	●	●	●
2.30	0.20	4.60	20.70	2.25	6.00	50	**3279T-9X-2.30**	●	●	●	●	●
2.40	0.20	4.80	21.60	2.35	6.00	50	**3279T-9X-2.40**	●	●	●	●	●
2.50	0.20	5.00	22.50	2.45	6.00	50	**3279T-9X-2.50**	●	●	●	●	●
3.00	0.20	6.00	27.00	2.95	6.00	50	**3279T-9X-3.00**	●	●	●	●	●

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

3371-1.3



MD
VHM
HM

λ 30°

Sharp Corner

1.3xD1

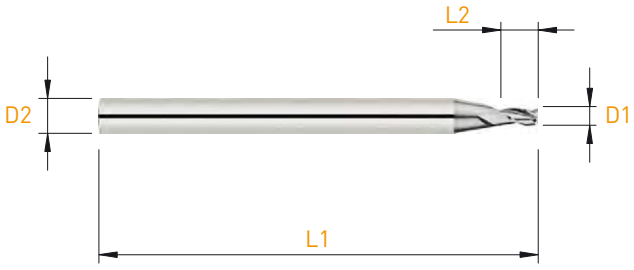
Z=3

D1 +0.005 / -0.010	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.30	0.40	3.00	39	**3371-1.3-0.30**	●	●	●	●	●
0.35	0.50	3.00	39	**3371-1.3-0.35**	●	●	●	●	●
0.40	0.50	3.00	39	**3371-1.3-0.40**	●	●	●	●	●
0.45	0.60	3.00	39	**3371-1.3-0.45**	●	●	●	●	●
0.50	0.70	3.00	39	**3371-1.3-0.50**	●	●	●	●	●
0.60	0.80	3.00	39	**3371-1.3-0.60**	●	●	●	●	●
0.70	0.90	3.00	39	**3371-1.3-0.70**	●	●	●	●	●
0.80	1.00	3.00	39	**3371-1.3-0.80**	●	●	●	●	●
0.90	1.30	3.00	39	**3371-1.3-0.90**	●	●	●	●	●
1.00	1.30	3.00	39	**3371-1.3-1.00**	●	●	●	●	●
1.10	1.50	3.00	39	**3371-1.3-1.10**	●	●	●	●	●
1.20	1.60	3.00	39	**3371-1.3-1.20**	●	●	●	●	●
1.30	1.80	3.00	39	**3371-1.3-1.30**	●	●	●	●	●
1.40	1.80	3.00	39	**3371-1.3-1.40**	●	●	●	●	●
1.50	2.00	3.00	39	**3371-1.3-1.50**	●	●	●	●	●
1.55	2.00	3.00	39	**3371-1.3-1.55**	●	●	●	●	●
1.60	2.00	3.00	39	**3371-1.3-1.60**	●	●	●	●	●
1.65	2.00	3.00	39	**3371-1.3-1.65**	●	●	●	●	●
1.70	2.00	3.00	39	**3371-1.3-1.70**	●	●	●	●	●
1.80	2.40	3.00	39	**3371-1.3-1.80**	●	●	●	●	●
1.90	2.40	3.00	39	**3371-1.3-1.90**	●	●	●	●	●
2.00	2.60	3.00	39	**3371-1.3-2.00**	●	●	●	●	●
2.05	2.70	3.00	39	**3371-1.3-2.05**	●	●	●	●	●
2.20	3.00	3.00	39	**3371-1.3-2.20**	●	●	●	●	●
2.50	3.30	3.00	39	**3371-1.3-2.50**	●	●	●	●	●
2.80	3.50	3.00	39	**3371-1.3-2.80**	●	●	●	●	●
2.90	3.50	3.00	39	**3371-1.3-2.90**	●	●	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3371-2

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

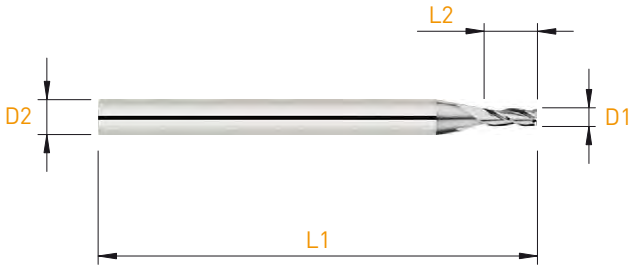


MD VHM HM | λ 30° | Sharp Corner | 2xD1 | Z=3

D1 +0.005 / -0.010	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.30	0.60	3.00	39	**3371-2-0.30**	●	●	●	●	●
0.35	0.70	3.00	39	**3371-2-0.35**	●	●	●	●	●
0.40	0.80	3.00	39	**3371-2-0.40**	●	●	●	●	●
0.45	0.90	3.00	39	**3371-2-0.45**	●	●	●	●	●
0.50	1.00	3.00	39	**3371-2-0.50**	●	●	●	●	●
0.60	1.20	3.00	39	**3371-2-0.60**	●	●	●	●	●
0.70	1.40	3.00	39	**3371-2-0.70**	●	●	●	●	●
0.75	1.50	3.00	39	**3371-2-0.75**	●	●	●	●	●
0.80	1.60	3.00	39	**3371-2-0.80**	●	●	●	●	●
0.90	1.80	3.00	39	**3371-2-0.90**	●	●	●	●	●
0.95	1.90	3.00	39	**3371-2-0.95**	●	●	●	●	●
1.00	2.00	3.00	39	**3371-2-1.00**	●	●	●	●	●
1.10	2.20	3.00	39	**3371-2-1.10**	●	●	●	●	●
1.20	2.40	3.00	39	**3371-2-1.20**	●	●	●	●	●
1.30	2.60	3.00	39	**3371-2-1.30**	●	●	●	●	●
1.40	2.80	3.00	39	**3371-2-1.40**	●	●	●	●	●
1.50	3.00	3.00	39	**3371-2-1.50**	●	●	●	●	●
1.60	3.20	3.00	39	**3371-2-1.60**	●	●	●	●	●
1.70	3.40	3.00	39	**3371-2-1.70**	●	●	●	●	●
1.80	3.60	3.00	39	**3371-2-1.80**	●	●	●	●	●
1.90	3.80	3.00	39	**3371-2-1.90**	●	●	●	●	●
2.00	4.00	3.00	39	**3371-2-2.00**	●	●	●	●	●
2.10	4.20	3.00	39	**3371-2-2.10**	●	●	●	●	●
2.20	4.40	3.00	39	**3371-2-2.20**	●	●	●	●	●
2.30	4.60	3.00	39	**3371-2-2.30**	●	●	●	●	●
2.40	4.80	3.00	39	**3371-2-2.40**	●	●	●	●	●
2.50	5.00	3.00	39	**3371-2-2.50**	●	●	●	●	●
2.60	5.20	3.00	39	**3371-2-2.60**	●	●	●	●	●
2.70	5.40	3.00	39	**3371-2-2.70**	●	●	●	●	●
2.80	5.60	3.00	39	**3371-2-2.80**	●	●	●	●	●
2.90	5.80	3.00	39	**3371-2-2.90**	●	●	●	●	●

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

3371-3



MD VHM HM | λ 30° | Sharp Corner | 3xD1 | Z=3

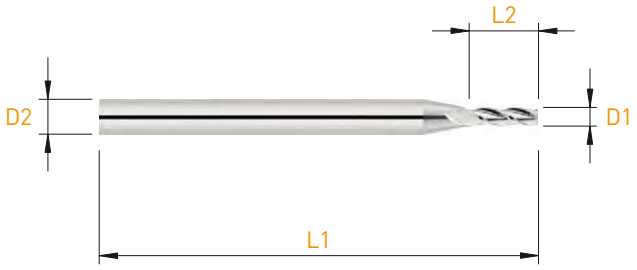
D1 +0.005 / -0.010	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.30	0.90	3.00	39	**3371-3-0.30**	●	●	●	●	●
0.40	1.20	3.00	39	**3371-3-0.40**	●	●	●	●	●
0.45	1.40	3.00	39	**3371-3-0.45**	●	●	●	●	●
0.50	1.50	3.00	39	**3371-3-0.50**	●	●	●	●	●
0.55	1.80	3.00	39	**3371-3-0.55**	●	●	●	●	●
0.60	2.00	3.00	39	**3371-3-0.60**	●	●	●	●	●
0.65	2.00	3.00	39	**3371-3-0.65**	●	●	●	●	●
0.70	2.00	3.00	39	**3371-3-0.70**	●	●	●	●	●
0.75	2.00	3.00	39	**3371-3-0.75**	●	●	●	●	●
0.80	2.50	3.00	39	**3371-3-0.80**	●	●	●	●	●
0.85	2.50	3.00	39	**3371-3-0.85**	●	●	●	●	●
0.90	2.50	3.00	39	**3371-3-0.90**	●	●	●	●	●
0.95	2.90	3.00	39	**3371-3-0.95**	●	●	●	●	●
1.00	3.00	3.00	39	**3371-3-1.00**	●	●	●	●	●
1.05	3.20	3.00	39	**3371-3-1.05**	●	●	●	●	●
1.10	3.30	3.00	39	**3371-3-1.10**	●	●	●	●	●
1.15	3.50	3.00	39	**3371-3-1.15**	●	●	●	●	●
1.20	4.00	3.00	39	**3371-3-1.20**	●	●	●	●	●
1.25	4.00	3.00	39	**3371-3-1.25**	●	●	●	●	●
1.30	4.00	3.00	39	**3371-3-1.30**	●	●	●	●	●
1.35	4.00	3.00	39	**3371-3-1.35**	●	●	●	●	●
1.40	4.00	3.00	39	**3371-3-1.40**	●	●	●	●	●
1.45	4.50	3.00	39	**3371-3-1.45**	●	●	●	●	●
1.50	4.50	3.00	39	**3371-3-1.50**	●	●	●	●	●
1.60	4.50	3.00	39	**3371-3-1.60**	●	●	●	●	●
1.65	5.00	3.00	39	**3371-3-1.65**	●	●	●	●	●
1.70	5.00	3.00	39	**3371-3-1.70**	●	●	●	●	●
1.80	6.00	3.00	39	**3371-3-1.80**	●	●	●	●	●
1.85	6.00	3.00	39	**3371-3-1.85**	●	●	●	●	●
1.90	6.00	3.00	39	**3371-3-1.90**	●	●	●	●	●
1.95	6.00	3.00	39	**3371-3-1.95**	●	●	●	●	●

D1 +0.005 / -0.010	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
2.00	6.00	3.00	39	**3371-3-2.00**	●	●	●	●	●
2.10	6.00	3.00	39	**3371-3-2.10**	●	●	●	●	●
2.20	6.50	3.00	39	**3371-3-2.20**	●	●	●	●	●
2.30	7.00	3.00	39	**3371-3-2.30**	●	●	●	●	●
2.40	7.00	3.00	39	**3371-3-2.40**	●	●	●	●	●
2.50	7.50	3.00	39	**3371-3-2.50**	●	●	●	●	●
2.60	7.50	3.00	39	**3371-3-2.60**	●	●	●	●	●
2.70	8.00	3.00	39	**3371-3-2.70**	●	●	●	●	●
2.80	8.00	3.00	39	**3371-3-2.80**	●	●	●	●	●
2.90	8.50	3.00	39	**3371-3-2.90**	●	●	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3371-4

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills



MD
VHM
HM

λ 30°

Sharp Corner

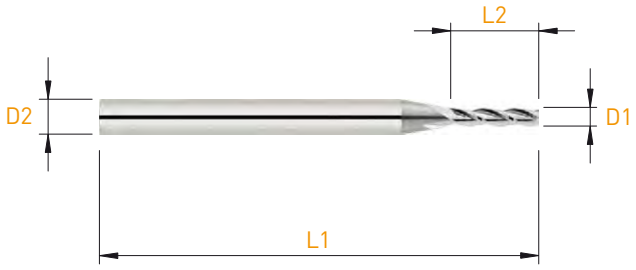
4xD1

Z=3

D1 +0.005 / -0.010	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.30	1.20	3.00	39	**3371-4-0.30**	●	●	●	●	●
0.40	1.60	3.00	39	**3371-4-0.40**	●	●	●	●	●
0.50	2.00	3.00	39	**3371-4-0.50**	●	●	●	●	●
0.60	2.40	3.00	39	**3371-4-0.60**	●	●	●	●	●
0.70	2.80	3.00	39	**3371-4-0.70**	●	●	●	●	●
0.80	3.20	3.00	39	**3371-4-0.80**	●	●	●	●	●
0.90	3.60	3.00	39	**3371-4-0.90**	●	●	●	●	●
1.00	4.00	3.00	39	**3371-4-1.00**	●	●	●	●	●
1.10	4.40	3.00	39	**3371-4-1.10**	●	●	●	●	●
1.20	4.80	3.00	39	**3371-4-1.20**	●	●	●	●	●
1.30	5.20	3.00	39	**3371-4-1.30**	●	●	●	●	●
1.40	5.60	3.00	39	**3371-4-1.40**	●	●	●	●	●
1.50	6.00	3.00	39	**3371-4-1.50**	●	●	●	●	●
1.60	6.40	3.00	39	**3371-4-1.60**	●	●	●	●	●
1.70	6.80	3.00	39	**3371-4-1.70**	●	●	●	●	●
1.80	7.20	3.00	39	**3371-4-1.80**	●	●	●	●	●
1.90	7.60	3.00	39	**3371-4-1.90**	●	●	●	●	●
2.00	8.00	3.00	39	**3371-4-2.00**	●	●	●	●	●
2.10	8.40	3.00	39	**3371-4-2.10**	●	●	●	●	●
2.20	8.80	3.00	39	**3371-4-2.20**	●	●	●	●	●
2.30	9.20	3.00	39	**3371-4-2.30**	●	●	●	●	●
2.40	9.60	3.00	39	**3371-4-2.40**	●	●	●	●	●
2.50	10.00	3.00	39	**3371-4-2.50**	●	●	●	●	●
2.60	10.40	3.00	39	**3371-4-2.60**	●	●	●	●	●
2.70	10.80	3.00	39	**3371-4-2.70**	●	●	●	●	●
2.80	11.20	3.00	39	**3371-4-2.80**	●	●	●	●	●
2.90	11.60	3.00	39	**3371-4-2.90**	●	●	●	●	●

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

3371-5



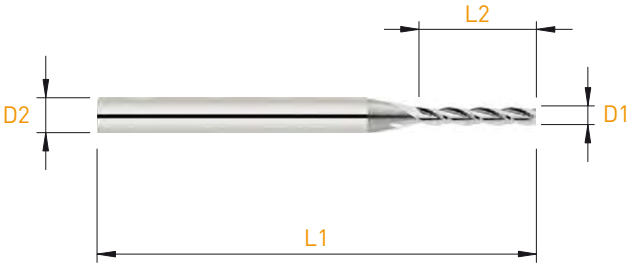
MD VHM HM | λ 30° | Sharp Corner | 5xD1 | Z=3

D1 +0.005 / -0.010	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.50	2.50	3.00	39	**3371-5-0.50**	●	●	●	●	●
0.60	3.00	3.00	39	**3371-5-0.60**	●	●	●	●	●
0.70	3.50	3.00	39	**3371-5-0.70**	●	●	●	●	●
0.80	4.00	3.00	39	**3371-5-0.80**	●	●	●	●	●
0.90	4.50	3.00	39	**3371-5-0.90**	●	●	●	●	●
1.00	5.00	3.00	39	**3371-5-1.00**	●	●	●	●	●
1.10	5.50	3.00	39	**3371-5-1.10**	●	●	●	●	●
1.20	6.00	3.00	39	**3371-5-1.20**	●	●	●	●	●
1.50	7.50	3.00	39	**3371-5-1.50**	●	●	●	●	●
2.00	10.00	3.00	39	**3371-5-2.00**	●	●	●	●	●
2.50	12.50	3.00	39	**3371-5-2.50**	●	●	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3371-8

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills



MD
VHM
HM

λ 30°

Sharp Corner

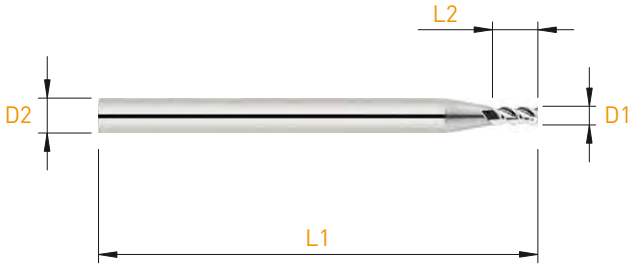
8xD1

Z=3

D1 +0.005 / -0.010	L2	D2 h4 Ø3.0 h5 Ø4.0	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.50	4.00	3.00	39	**3371-8-0.50**	●	●	●	●	●
0.60	5.00	3.00	39	**3371-8-0.60**	●	●	●	●	●
0.70	5.60	3.00	39	**3371-8-0.70**	●	●	●	●	●
0.80	6.00	3.00	39	**3371-8-0.80**	●	●	●	●	●
0.90	7.20	3.00	39	**3371-8-0.90**	●	●	●	●	●
1.00	8.00	3.00	39	**3371-8-1.00**	●	●	●	●	●
1.20	9.00	3.00	39	**3371-8-1.20**	●	●	●	●	●
1.30	11.00	3.00	39	**3371-8-1.30**	●	●	●	●	●
1.50	12.00	4.00	50	**3371-8-1.50**	●	●	●	●	●
2.00	16.00	4.00	50	**3371-8-2.00**	●	●	●	●	●
2.50	20.00	4.00	50	**3371-8-2.50**	●	●	●	●	●

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

3375-2.5



MD
VHM
HM

λ 45°

Sharp Corner

2.5xD1

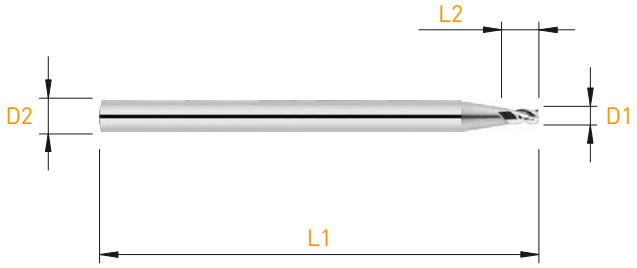
Z=3

D1 +0.005 / -0.010	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.30	0.80	3.00	39	**3375-2.5-0.30**	●	●	●	●	●
0.40	1.00	3.00	39	**3375-2.5-0.40**	●	●	●	●	●
0.50	1.30	3.00	39	**3375-2.5-0.50**	●	●	●	●	●
0.60	1.50	3.00	39	**3375-2.5-0.60**	●	●	●	●	●
0.70	1.70	3.00	39	**3375-2.5-0.70**	●	●	●	●	●
0.80	2.00	3.00	39	**3375-2.5-0.80**	●	●	●	●	●
0.90	2.30	3.00	39	**3375-2.5-0.90**	●	●	●	●	●
1.00	2.50	3.00	39	**3375-2.5-1.00**	●	●	●	●	●
1.10	2.80	3.00	39	**3375-2.5-1.10**	●	●	●	●	●
1.20	3.00	3.00	39	**3375-2.5-1.20**	●	●	●	●	●
1.30	3.30	3.00	39	**3375-2.5-1.30**	●	●	●	●	●
1.40	3.50	3.00	39	**3375-2.5-1.40**	●	●	●	●	●
1.50	3.80	3.00	39	**3375-2.5-1.50**	●	●	●	●	●
1.60	4.00	3.00	39	**3375-2.5-1.60**	●	●	●	●	●
1.70	4.30	3.00	39	**3375-2.5-1.70**	●	●	●	●	●
1.80	4.50	3.00	39	**3375-2.5-1.80**	●	●	●	●	●
1.90	4.80	3.00	39	**3375-2.5-1.90**	●	●	●	●	●
2.00	5.00	3.00	39	**3375-2.5-2.00**	●	●	●	●	●
2.10	5.30	3.00	39	**3375-2.5-2.10**	●	●	●	●	●
2.20	5.50	3.00	39	**3375-2.5-2.20**	●	●	●	●	●
2.30	5.80	3.00	39	**3375-2.5-2.30**	●	●	●	●	●
2.40	6.00	3.00	39	**3375-2.5-2.40**	●	●	●	●	●
2.50	6.30	3.00	39	**3375-2.5-2.50**	●	●	●	●	●
2.60	6.50	3.00	39	**3375-2.5-2.60**	●	●	●	●	●
2.70	6.80	3.00	39	**3375-2.5-2.70**	●	●	●	●	●
2.80	7.00	3.00	39	**3375-2.5-2.80**	●	●	●	●	●
2.90	7.30	3.00	39	**3375-2.5-2.90**	●	●	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

DHD3371-1.5

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills



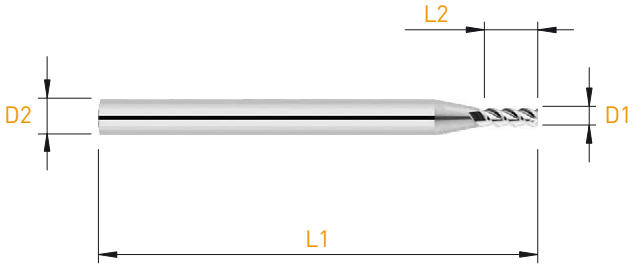
MD VHM HM | λ 36° 38° 40° | Sharp Corner | 1.5xD1 | Z=3

DHD — Denture à pas irrégulier, hélice différente
Ungleiche Teilung, unterschiedliche Spirale
Uneven tooth pitch, different helix

D1 +0.005 / -0.010	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.30	0.45	3.00	39	**DHD3371-1.5-0.30**	●	●	●	●	●
0.40	0.60	3.00	39	**DHD3371-1.5-0.40**	●	●	●	●	●
0.50	0.75	3.00	39	**DHD3371-1.5-0.50**	●	●	●	●	●
0.60	0.90	3.00	39	**DHD3371-1.5-0.60**	●	●	●	●	●
0.70	1.05	3.00	39	**DHD3371-1.5-0.70**	●	●	●	●	●
0.80	1.20	3.00	39	**DHD3371-1.5-0.80**	●	●	●	●	●
0.90	1.35	3.00	39	**DHD3371-1.5-0.90**	●	●	●	●	●
1.00	1.50	3.00	39	**DHD3371-1.5-1.00**	●	●	●	●	●
1.10	1.65	3.00	39	**DHD3371-1.5-1.10**	●	●	●	●	●
1.20	1.80	3.00	39	**DHD3371-1.5-1.20**	●	●	●	●	●
1.30	1.95	3.00	39	**DHD3371-1.5-1.30**	●	●	●	●	●
1.40	2.10	3.00	39	**DHD3371-1.5-1.40**	●	●	●	●	●
1.50	2.25	3.00	39	**DHD3371-1.5-1.50**	●	●	●	●	●
1.60	2.40	3.00	39	**DHD3371-1.5-1.60**	●	●	●	●	●
1.70	2.55	3.00	39	**DHD3371-1.5-1.70**	●	●	●	●	●
1.80	2.70	3.00	39	**DHD3371-1.5-1.80**	●	●	●	●	●
1.90	2.85	3.00	39	**DHD3371-1.5-1.90**	●	●	●	●	●
2.00	3.00	3.00	39	**DHD3371-1.5-2.00**	●	●	●	●	●
2.50	3.75	3.00	39	**DHD3371-1.5-2.50**	●	●	●	●	●

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

DHD3371-3



MD
VHM
HM

λ 36°
38°
40°

Sharp Corner

3xD1

Z=3

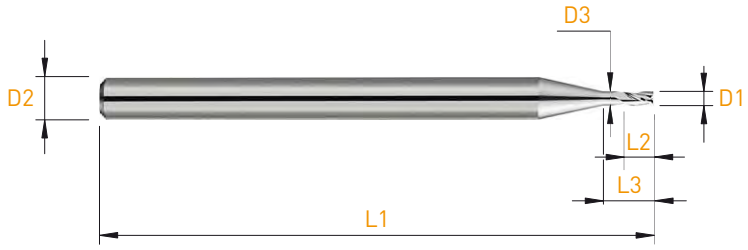
DHD — Denture à pas irrégulier, hélice différente
Ungleiche Teilung, unterschiedliche Spirale
Uneven tooth pitch, different helix

D1 +0.005 / -0.010	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.30	0.90	3.00	39	**DHD3371-3-0.30**	●	●	●	●	●
0.40	1.20	3.00	39	**DHD3371-3-0.40**	●	●	●	●	●
0.50	1.50	3.00	39	**DHD3371-3-0.50**	●	●	●	●	●
0.60	1.80	3.00	39	**DHD3371-3-0.60**	●	●	●	●	●
0.70	2.10	3.00	39	**DHD3371-3-0.70**	●	●	●	●	●
0.80	2.40	3.00	39	**DHD3371-3-0.80**	●	●	●	●	●
0.90	2.70	3.00	39	**DHD3371-3-0.90**	●	●	●	●	●
1.00	3.00	3.00	39	**DHD3371-3-1.00**	●	●	●	●	●
1.10	3.30	3.00	39	**DHD3371-3-1.10**	●	●	●	●	●
1.20	3.60	3.00	39	**DHD3371-3-1.20**	●	●	●	●	●
1.30	3.90	3.00	39	**DHD3371-3-1.30**	●	●	●	●	●
1.40	4.20	3.00	39	**DHD3371-3-1.40**	●	●	●	●	●
1.50	4.50	3.00	39	**DHD3371-3-1.50**	●	●	●	●	●
1.60	4.80	3.00	39	**DHD3371-3-1.60**	●	●	●	●	●
1.70	5.10	3.00	39	**DHD3371-3-1.70**	●	●	●	●	●
1.80	5.40	3.00	39	**DHD3371-3-1.80**	●	●	●	●	●
1.90	5.70	3.00	39	**DHD3371-3-1.90**	●	●	●	●	●
2.00	6.00	3.00	39	**DHD3371-3-2.00**	●	●	●	●	●
2.50	7.50	3.00	39	**DHD3371-3-2.50**	●	●	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3370S-3X

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills



MD
VHM
HM

λ 30°

Sharp Corner

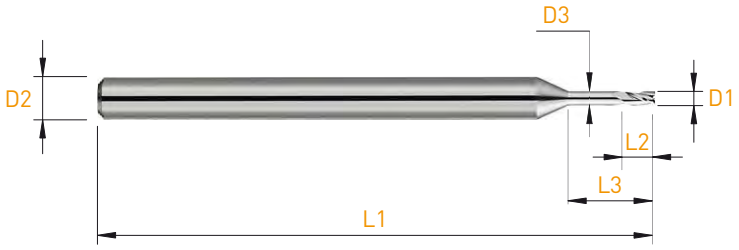
L3
3xD1

Z=3

D1 +0.005 / -0.010	L2	L3	D3	D2 h4 Ø3.0 h5 Ø6.0	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.30	0.60	0.90	0.27	3.00	39	**3370S-3X-0.30**	●	●	●	●	●
0.40	0.80	1.20	0.37	3.00	39	**3370S-3X-0.40**	●	●	●	●	●
0.50	1.00	1.50	0.45	3.00	39	**3370S-3X-0.50**	●	●	●	●	●
0.60	1.20	1.80	0.55	3.00	39	**3370S-3X-0.60**	●	●	●	●	●
0.70	1.40	2.10	0.65	3.00	39	**3370S-3X-0.70**	●	●	●	●	●
0.80	1.60	2.40	0.75	3.00	39	**3370S-3X-0.80**	●	●	●	●	●
0.90	1.80	2.70	0.85	3.00	39	**3370S-3X-0.90**	●	●	●	●	●
1.00	2.00	3.00	0.95	3.00	39	**3370S-3X-1.00**	●	●	●	●	●
1.10	2.20	3.30	1.05	3.00	39	**3370S-3X-1.10**	●	●	●	●	●
1.20	2.40	3.60	1.15	3.00	39	**3370S-3X-1.20**	●	●	●	●	●
1.30	2.60	3.90	1.25	3.00	39	**3370S-3X-1.30**	●	●	●	●	●
1.40	2.80	4.20	1.35	3.00	39	**3370S-3X-1.40**	●	●	●	●	●
1.50	3.00	4.50	1.45	3.00	39	**3370S-3X-1.50**	●	●	●	●	●
1.60	3.20	4.80	1.55	3.00	39	**3370S-3X-1.60**	●	●	●	●	●
1.70	3.40	5.10	1.65	3.00	39	**3370S-3X-1.70**	●	●	●	●	●
1.80	3.60	5.40	1.75	3.00	39	**3370S-3X-1.80**	●	●	●	●	●
1.90	3.80	5.70	1.85	3.00	39	**3370S-3X-1.90**	●	●	●	●	●
2.00	4.00	6.00	1.95	6.00	50	**3370S-3X-2.00**	●	●	●	●	●
2.10	4.20	6.30	2.05	6.00	50	**3370S-3X-2.10**	●	●	●	●	●
2.20	4.40	6.60	2.15	6.00	50	**3370S-3X-2.20**	●	●	●	●	●
2.30	4.60	6.90	2.25	6.00	50	**3370S-3X-2.30**	●	●	●	●	●
2.40	4.80	7.20	2.35	6.00	50	**3370S-3X-2.40**	●	●	●	●	●
2.50	5.00	7.50	2.45	6.00	50	**3370S-3X-2.50**	●	●	●	●	●
3.00	6.00	9.00	2.95	6.00	50	**3370S-3X-3.00**	●	●	●	●	●

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

3370S-6X



MD
VHM
HM

λ 30°

Sharp Corner

L3
6xD1

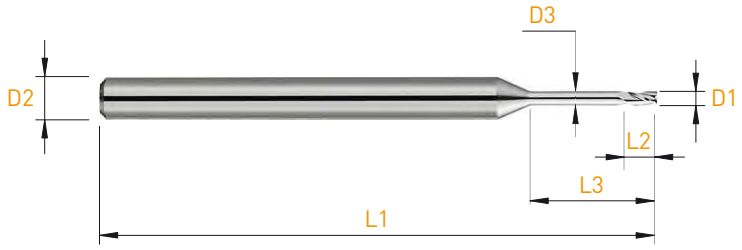
Z=3

D1 +0.005 / -0.010	L2	L3	D3	D2 h4 Ø3.0 h5 Ø6.0	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.30	0.60	1.80	0.27	3.00	39	**3370S-6X-0.30**	●	●	●	●	●
0.40	0.80	2.40	0.37	3.00	39	**3370S-6X-0.40**	●	●	●	●	●
0.50	1.00	3.00	0.45	3.00	39	**3370S-6X-0.50**	●	●	●	●	●
0.60	1.20	3.60	0.55	3.00	39	**3370S-6X-0.60**	●	●	●	●	●
0.70	1.40	4.20	0.65	3.00	39	**3370S-6X-0.70**	●	●	●	●	●
0.80	1.60	4.80	0.75	3.00	39	**3370S-6X-0.80**	●	●	●	●	●
0.90	1.80	5.40	0.85	3.00	39	**3370S-6X-0.90**	●	●	●	●	●
1.00	2.00	6.00	0.95	3.00	39	**3370S-6X-1.00**	●	●	●	●	●
1.10	2.20	6.60	1.05	3.00	39	**3370S-6X-1.10**	●	●	●	●	●
1.20	2.40	7.20	1.15	3.00	39	**3370S-6X-1.20**	●	●	●	●	●
1.30	2.60	7.80	1.25	3.00	39	**3370S-6X-1.30**	●	●	●	●	●
1.40	2.80	8.40	1.35	3.00	39	**3370S-6X-1.40**	●	●	●	●	●
1.50	3.00	9.00	1.45	3.00	39	**3370S-6X-1.50**	●	●	●	●	●
1.60	3.20	9.60	1.55	3.00	39	**3370S-6X-1.60**	●	●	●	●	●
1.70	3.40	10.20	1.65	3.00	39	**3370S-6X-1.70**	●	●	●	●	●
1.80	3.60	10.80	1.75	3.00	39	**3370S-6X-1.80**	●	●	●	●	●
1.90	3.80	11.40	1.85	3.00	39	**3370S-6X-1.90**	●	●	●	●	●
2.00	4.00	12.00	1.95	6.00	50	**3370S-6X-2.00**	●	●	●	●	●
2.10	4.20	12.60	2.05	6.00	50	**3370S-6X-2.10**	●	●	●	●	●
2.20	4.40	13.20	2.15	6.00	50	**3370S-6X-2.20**	●	●	●	●	●
2.30	4.60	13.80	2.25	6.00	50	**3370S-6X-2.30**	●	●	●	●	●
2.40	4.80	14.40	2.35	6.00	50	**3370S-6X-2.40**	●	●	●	●	●
2.50	5.00	15.00	2.45	6.00	50	**3370S-6X-2.50**	●	●	●	●	●
3.00	6.00	18.00	2.95	6.00	50	**3370S-6X-3.00**	●	●	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3370S-9X

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills



MD
VHM
HM

λ 30°

Sharp Corner

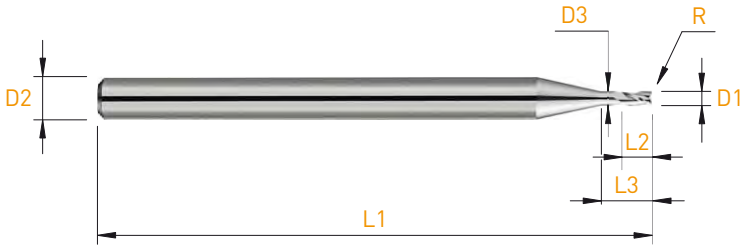
L3
9xD1

Z=3

D1 +0.005 / -0.010	L2	L3	D3	D2 h4 Ø3.0 h5 Ø6.0	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.40	0.80	3.60	0.37	3.00	39	**3370S-9X-0.40**	●	●	●	●	●
0.50	1.00	4.50	0.45	3.00	39	**3370S-9X-0.50**	●	●	●	●	●
0.60	1.20	5.40	0.55	3.00	39	**3370S-9X-0.60**	●	●	●	●	●
0.70	1.40	6.30	0.65	3.00	39	**3370S-9X-0.70**	●	●	●	●	●
0.80	1.60	7.20	0.75	3.00	39	**3370S-9X-0.80**	●	●	●	●	●
0.90	1.80	8.10	0.85	3.00	39	**3370S-9X-0.90**	●	●	●	●	●
1.00	2.00	9.00	0.95	3.00	39	**3370S-9X-1.00**	●	●	●	●	●
1.10	2.20	9.90	1.05	3.00	39	**3370S-9X-1.10**	●	●	●	●	●
1.20	2.40	10.80	1.15	3.00	39	**3370S-9X-1.20**	●	●	●	●	●
1.30	2.60	11.70	1.25	3.00	39	**3370S-9X-1.30**	●	●	●	●	●
1.40	2.80	12.60	1.35	3.00	39	**3370S-9X-1.40**	●	●	●	●	●
1.50	3.00	13.50	1.45	3.00	39	**3370S-9X-1.50**	●	●	●	●	●
1.60	3.20	14.40	1.55	3.00	39	**3370S-9X-1.60**	●	●	●	●	●
1.70	3.40	15.30	1.65	3.00	39	**3370S-9X-1.70**	●	●	●	●	●
1.80	3.60	16.20	1.75	3.00	39	**3370S-9X-1.80**	●	●	●	●	●
1.90	3.80	17.10	1.85	3.00	39	**3370S-9X-1.90**	●	●	●	●	●
2.00	4.00	18.00	1.95	6.00	50	**3370S-9X-2.00**	●	●	●	●	●
2.10	4.20	18.90	2.05	6.00	50	**3370S-9X-2.10**	●	●	●	●	●
2.20	4.40	19.80	2.15	6.00	50	**3370S-9X-2.20**	●	●	●	●	●
2.30	4.60	20.70	2.25	6.00	50	**3370S-9X-2.30**	●	●	●	●	●
2.40	4.80	21.60	2.35	6.00	50	**3370S-9X-2.40**	●	●	●	●	●
2.50	5.00	22.50	2.45	6.00	50	**3370S-9X-2.50**	●	●	●	●	●
3.00	6.00	27.00	2.95	6.00	50	**3370S-9X-3.00**	●	●	●	●	●

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

3379T-3X



MD
VHM
HM

λ 30°

Radius Corner

L3
3xD1

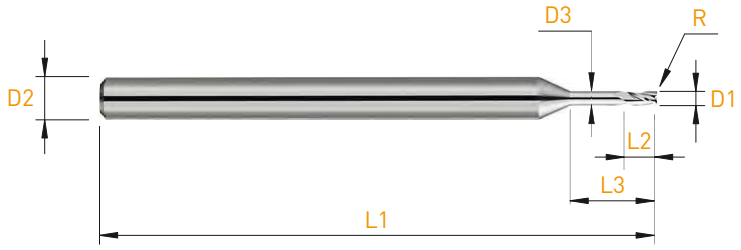
Z=3

D1 +0.005 / -0.010	R +/- 0.02	L2	L3	D3	D2 h4 Ø3.0 h5 Ø6.0	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.30	0.05	0.60	0.90	0.27	3.00	39	**3379T-3X-0.30**	●	●	●	●	●
0.40	0.05	0.80	1.20	0.37	3.00	39	**3379T-3X-0.40**	●	●	●	●	●
0.50	0.05	1.00	1.50	0.45	3.00	39	**3379T-3X-0.50**	●	●	●	●	●
0.60	0.05	1.20	1.80	0.55	3.00	39	**3379T-3X-0.60**	●	●	●	●	●
0.70	0.05	1.40	2.10	0.65	3.00	39	**3379T-3X-0.70**	●	●	●	●	●
0.80	0.05	1.60	2.40	0.75	3.00	39	**3379T-3X-0.80**	●	●	●	●	●
0.90	0.05	1.80	2.70	0.85	3.00	39	**3379T-3X-0.90**	●	●	●	●	●
1.00	0.10	2.00	3.00	0.95	3.00	39	**3379T-3X-1.00**	●	●	●	●	●
1.10	0.10	2.20	3.30	1.05	3.00	39	**3379T-3X-1.10**	●	●	●	●	●
1.20	0.10	2.40	3.60	1.15	3.00	39	**3379T-3X-1.20**	●	●	●	●	●
1.30	0.10	2.60	3.90	1.25	3.00	39	**3379T-3X-1.30**	●	●	●	●	●
1.40	0.10	2.80	4.20	1.35	3.00	39	**3379T-3X-1.40**	●	●	●	●	●
1.50	0.20	3.00	4.50	1.45	3.00	39	**3379T-3X-1.50**	●	●	●	●	●
1.60	0.20	3.20	4.80	1.55	3.00	39	**3379T-3X-1.60**	●	●	●	●	●
1.70	0.20	3.40	5.10	1.65	3.00	39	**3379T-3X-1.70**	●	●	●	●	●
1.80	0.20	3.60	5.40	1.75	3.00	39	**3379T-3X-1.80**	●	●	●	●	●
1.90	0.20	3.80	5.70	1.85	3.00	39	**3379T-3X-1.90**	●	●	●	●	●
2.00	0.20	4.00	6.00	1.95	6.00	50	**3379T-3X-2.00**	●	●	●	●	●
2.10	0.20	4.20	6.30	2.05	6.00	50	**3379T-3X-2.10**	●	●	●	●	●
2.20	0.20	4.40	6.60	2.15	6.00	50	**3379T-3X-2.20**	●	●	●	●	●
2.30	0.20	4.60	6.90	2.25	6.00	50	**3379T-3X-2.30**	●	●	●	●	●
2.40	0.20	4.80	7.20	2.35	6.00	50	**3379T-3X-2.40**	●	●	●	●	●
2.50	0.20	5.00	7.50	2.45	6.00	50	**3379T-3X-2.50**	●	●	●	●	●
3.00	0.20	6.00	9.00	2.95	6.00	50	**3379T-3X-3.00**	●	●	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3379T-6X

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

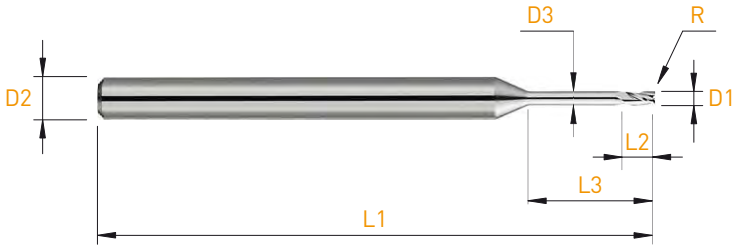


MD VHM HM | λ 30° | Radius Corner | L3 6xD1 | Z=3

D1 +0.005 / -0.010	R +/- 0.02	L2	L3	D3	D2 h4 Ø3.0 h5 Ø6.0	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.30	0.05	0.60	1.80	0.27	3.00	39	**3379T-6X-0.30**	●	●	●	●	●
0.40	0.05	0.80	2.40	0.37	3.00	39	**3379T-6X-0.40**	●	●	●	●	●
0.50	0.05	1.00	3.00	0.45	3.00	39	**3379T-6X-0.50**	●	●	●	●	●
0.60	0.05	1.20	3.60	0.55	3.00	39	**3379T-6X-0.60**	●	●	●	●	●
0.70	0.05	1.40	4.20	0.65	3.00	39	**3379T-6X-0.70**	●	●	●	●	●
0.80	0.05	1.60	4.80	0.75	3.00	39	**3379T-6X-0.80**	●	●	●	●	●
0.90	0.05	1.80	5.40	0.85	3.00	39	**3379T-6X-0.90**	●	●	●	●	●
1.00	0.10	2.00	6.00	0.95	3.00	39	**3379T-6X-1.00**	●	●	●	●	●
1.10	0.10	2.20	6.60	1.05	3.00	39	**3379T-6X-1.10**	●	●	●	●	●
1.20	0.10	2.40	7.20	1.15	3.00	39	**3379T-6X-1.20**	●	●	●	●	●
1.30	0.10	2.60	7.80	1.25	3.00	39	**3379T-6X-1.30**	●	●	●	●	●
1.40	0.10	2.80	8.40	1.35	3.00	39	**3379T-6X-1.40**	●	●	●	●	●
1.50	0.20	3.00	9.00	1.45	3.00	39	**3379T-6X-1.50**	●	●	●	●	●
1.60	0.20	3.20	9.60	1.55	3.00	39	**3379T-6X-1.60**	●	●	●	●	●
1.70	0.20	3.40	10.20	1.65	3.00	39	**3379T-6X-1.70**	●	●	●	●	●
1.80	0.20	3.60	10.80	1.75	3.00	39	**3379T-6X-1.80**	●	●	●	●	●
1.90	0.20	3.80	11.40	1.85	3.00	39	**3379T-6X-1.90**	●	●	●	●	●
2.00	0.20	4.00	12.00	1.95	6.00	50	**3379T-6X-2.00**	●	●	●	●	●
2.10	0.20	4.20	12.60	2.05	6.00	50	**3379T-6X-2.10**	●	●	●	●	●
2.20	0.20	4.40	13.20	2.15	6.00	50	**3379T-6X-2.20**	●	●	●	●	●
2.30	0.20	4.60	13.80	2.25	6.00	50	**3379T-6X-2.30**	●	●	●	●	●
2.40	0.20	4.80	14.40	2.35	6.00	50	**3379T-6X-2.40**	●	●	●	●	●
2.50	0.20	5.00	15.00	2.45	6.00	50	**3379T-6X-2.50**	●	●	●	●	●
3.00	0.20	6.00	18.00	2.95	6.00	50	**3379T-6X-3.00**	●	●	●	●	●

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

3379T-9X



MD
VHM
HM

λ 30°

Radius Corner

L3 9xD1

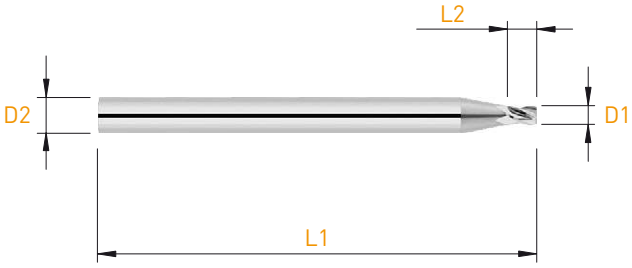
Z=3

D1 +0.005 / -0.010	R +/- 0.02	L2	L3	D3	D2 h4 Ø3.0 h5 Ø6.0	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.40	0.05	0.80	3.60	0.37	3.00	39	**3379T-9X-0.40**	●	●	●	●	●
0.50	0.05	1.00	4.50	0.45	3.00	39	**3379T-9X-0.50**	●	●	●	●	●
0.60	0.05	1.20	5.40	0.55	3.00	39	**3379T-9X-0.60**	●	●	●	●	●
0.70	0.05	1.40	6.30	0.65	3.00	39	**3379T-9X-0.70**	●	●	●	●	●
0.80	0.05	1.60	7.20	0.75	3.00	39	**3379T-9X-0.80**	●	●	●	●	●
0.90	0.05	1.80	8.10	0.85	3.00	39	**3379T-9X-0.90**	●	●	●	●	●
1.00	0.10	2.00	9.00	0.95	3.00	39	**3379T-9X-1.00**	●	●	●	●	●
1.10	0.10	2.20	9.90	1.05	3.00	39	**3379T-9X-1.10**	●	●	●	●	●
1.20	0.10	2.40	10.80	1.15	3.00	39	**3379T-9X-1.20**	●	●	●	●	●
1.30	0.10	2.60	11.70	1.25	3.00	39	**3379T-9X-1.30**	●	●	●	●	●
1.40	0.10	2.80	12.60	1.35	3.00	39	**3379T-9X-1.40**	●	●	●	●	●
1.50	0.20	3.00	13.50	1.45	3.00	39	**3379T-9X-1.50**	●	●	●	●	●
1.60	0.20	3.20	14.40	1.55	3.00	39	**3379T-9X-1.60**	●	●	●	●	●
1.70	0.20	3.40	15.30	1.65	3.00	39	**3379T-9X-1.70**	●	●	●	●	●
1.80	0.20	3.60	16.20	1.75	3.00	39	**3379T-9X-1.80**	●	●	●	●	●
1.90	0.20	3.80	17.10	1.85	3.00	39	**3379T-9X-1.90**	●	●	●	●	●
2.00	0.20	4.00	18.00	1.95	6.00	50	**3379T-9X-2.00**	●	●	●	●	●
2.10	0.20	4.20	18.90	2.05	6.00	50	**3379T-9X-2.10**	●	●	●	●	●
2.20	0.20	4.40	19.80	2.15	6.00	50	**3379T-9X-2.20**	●	●	●	●	●
2.30	0.20	4.60	20.70	2.25	6.00	50	**3379T-9X-2.30**	●	●	●	●	●
2.40	0.20	4.80	21.60	2.35	6.00	50	**3379T-9X-2.40**	●	●	●	●	●
2.50	0.20	5.00	22.50	2.45	6.00	50	**3379T-9X-2.50**	●	●	●	●	●
3.00	0.20	6.00	27.00	2.95	6.00	50	**3379T-9X-3.00**	●	●	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3471-1.5

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills



MD
VHM
HM

λ 30°

Sharp Corner

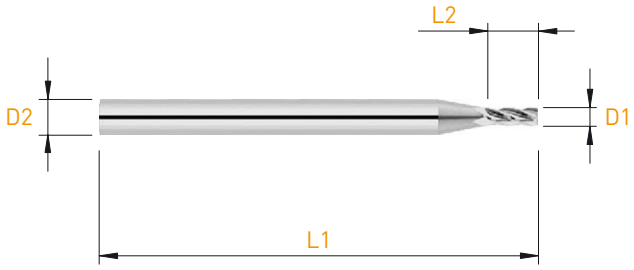
1.5xD1

Z=4

D1 +0.005 / -0.010	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.30	0.45	3.00	39	**3471-1.5-0.30**	●	●	●	●	●
0.40	0.60	3.00	39	**3471-1.5-0.40**	●	●	●	●	●
0.50	0.75	3.00	39	**3471-1.5-0.50**	●	●	●	●	●
0.60	0.90	3.00	39	**3471-1.5-0.60**	●	●	●	●	●
0.70	1.05	3.00	39	**3471-1.5-0.70**	●	●	●	●	●
0.80	1.20	3.00	39	**3471-1.5-0.80**	●	●	●	●	●
0.90	1.35	3.00	39	**3471-1.5-0.90**	●	●	●	●	●
1.00	1.50	3.00	39	**3471-1.5-1.00**	●	●	●	●	●
1.10	1.65	3.00	39	**3471-1.5-1.10**	●	●	●	●	●
1.20	1.80	3.00	39	**3471-1.5-1.20**	●	●	●	●	●
1.30	1.95	3.00	39	**3471-1.5-1.30**	●	●	●	●	●
1.40	2.10	3.00	39	**3471-1.5-1.40**	●	●	●	●	●
1.50	2.25	3.00	39	**3471-1.5-1.50**	●	●	●	●	●
1.60	2.40	3.00	39	**3471-1.5-1.60**	●	●	●	●	●
1.70	2.55	3.00	39	**3471-1.5-1.70**	●	●	●	●	●
1.80	2.70	3.00	39	**3471-1.5-1.80**	●	●	●	●	●
1.90	2.85	3.00	39	**3471-1.5-1.90**	●	●	●	●	●
2.00	3.00	3.00	39	**3471-1.5-2.00**	●	●	●	●	●
2.10	3.15	3.00	39	**3471-1.5-2.10**	●	●	●	●	●
2.20	3.30	3.00	39	**3471-1.5-2.20**	●	●	●	●	●
2.30	3.45	3.00	39	**3471-1.5-2.30**	●	●	●	●	●
2.40	3.60	3.00	39	**3471-1.5-2.40**	●	●	●	●	●
2.50	3.75	3.00	39	**3471-1.5-2.50**	●	●	●	●	●
2.60	3.90	3.00	39	**3471-1.5-2.60**	●	●	●	●	●
2.70	4.05	3.00	39	**3471-1.5-2.70**	●	●	●	●	●
2.80	4.20	3.00	39	**3471-1.5-2.80**	●	●	●	●	●
2.90	4.35	3.00	39	**3471-1.5-2.90**	●	●	●	●	●

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

3471-3



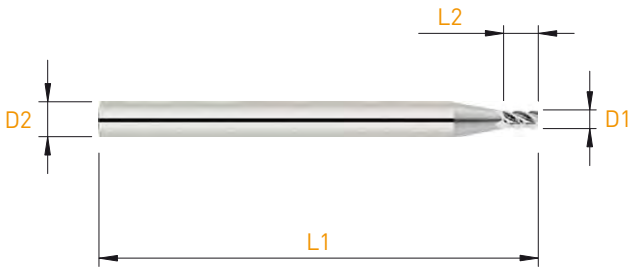
MD VHM HM | λ 30° | Sharp Corner | 3xD1 | Z=4

D1 +0.005 / -0.010	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.30	0.90	3.00	39	**3471-3-0.30**	●	●	●	●	●
0.40	1.20	3.00	39	**3471-3-0.40**	●	●	●	●	●
0.50	1.50	3.00	39	**3471-3-0.50**	●	●	●	●	●
0.55	1.70	3.00	39	**3471-3-0.55**	●	●	●	●	●
0.60	1.80	3.00	39	**3471-3-0.60**	●	●	●	●	●
0.70	2.10	3.00	39	**3471-3-0.70**	●	●	●	●	●
0.75	2.30	3.00	39	**3471-3-0.75**	●	●	●	●	●
0.80	2.40	3.00	39	**3471-3-0.80**	●	●	●	●	●
0.85	2.60	3.00	39	**3471-3-0.85**	●	●	●	●	●
0.90	2.70	3.00	39	**3471-3-0.90**	●	●	●	●	●
0.95	2.90	3.00	39	**3471-3-0.95**	●	●	●	●	●
1.00	3.00	3.00	39	**3471-3-1.00**	●	●	●	●	●
1.10	3.30	3.00	39	**3471-3-1.10**	●	●	●	●	●
1.20	3.60	3.00	39	**3471-3-1.20**	●	●	●	●	●
1.30	3.90	3.00	39	**3471-3-1.30**	●	●	●	●	●
1.40	4.20	3.00	39	**3471-3-1.40**	●	●	●	●	●
1.50	4.50	3.00	39	**3471-3-1.50**	●	●	●	●	●
1.60	4.80	3.00	39	**3471-3-1.60**	●	●	●	●	●
1.70	5.10	3.00	39	**3471-3-1.70**	●	●	●	●	●
1.80	5.40	3.00	39	**3471-3-1.80**	●	●	●	●	●
1.90	5.70	3.00	39	**3471-3-1.90**	●	●	●	●	●
2.00	6.00	3.00	39	**3471-3-2.00**	●	●	●	●	●
2.10	6.30	3.00	39	**3471-3-2.10**	●	●	●	●	●
2.20	6.60	3.00	39	**3471-3-2.20**	●	●	●	●	●
2.30	6.90	3.00	39	**3471-3-2.30**	●	●	●	●	●
2.40	7.20	3.00	39	**3471-3-2.40**	●	●	●	●	●
2.50	7.50	3.00	39	**3471-3-2.50**	●	●	●	●	●
2.60	7.80	3.00	39	**3471-3-2.60**	●	●	●	●	●
2.70	8.10	3.00	39	**3471-3-2.70**	●	●	●	●	●
2.80	8.40	3.00	39	**3471-3-2.80**	●	●	●	●	●
2.90	8.70	3.00	39	**3471-3-2.90**	●	●	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3472-2

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

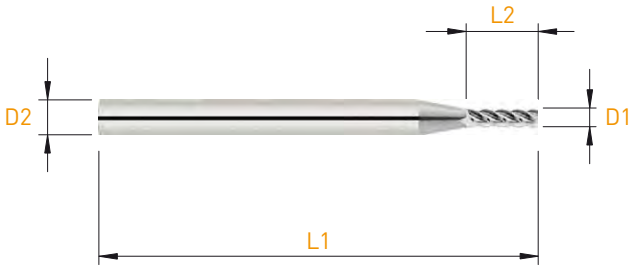


MD VHM HM | λ 40° | Sharp Corner | 2xD1 | Z=4

D1 +0.005 / -0.010	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.30	0.60	3.00	39	**3472-2-0.30**	●	●	●	●	●
0.40	0.80	3.00	39	**3472-2-0.40**	●	●	●	●	●
0.50	1.00	3.00	39	**3472-2-0.50**	●	●	●	●	●
0.60	1.20	3.00	39	**3472-2-0.60**	●	●	●	●	●
0.70	1.40	3.00	39	**3472-2-0.70**	●	●	●	●	●
0.80	1.60	3.00	39	**3472-2-0.80**	●	●	●	●	●
0.90	1.80	3.00	39	**3472-2-0.90**	●	●	●	●	●
1.00	2.00	3.00	39	**3472-2-1.00**	●	●	●	●	●
1.10	2.20	3.00	39	**3472-2-1.10**	●	●	●	●	●
1.20	2.40	3.00	39	**3472-2-1.20**	●	●	●	●	●
1.30	2.60	3.00	39	**3472-2-1.30**	●	●	●	●	●
1.40	2.80	3.00	39	**3472-2-1.40**	●	●	●	●	●
1.50	3.00	3.00	39	**3472-2-1.50**	●	●	●	●	●
1.60	3.20	3.00	39	**3472-2-1.60**	●	●	●	●	●
1.70	3.40	3.00	39	**3472-2-1.70**	●	●	●	●	●
1.80	3.60	3.00	39	**3472-2-1.80**	●	●	●	●	●
1.90	3.80	3.00	39	**3472-2-1.90**	●	●	●	●	●
2.00	4.00	3.00	39	**3472-2-2.00**	●	●	●	●	●
2.10	4.20	3.00	39	**3472-2-2.10**	●	●	●	●	●
2.20	4.40	3.00	39	**3472-2-2.20**	●	●	●	●	●
2.30	4.60	3.00	39	**3472-2-2.30**	●	●	●	●	●
2.40	4.80	3.00	39	**3472-2-2.40**	●	●	●	●	●
2.50	5.00	3.00	39	**3472-2-2.50**	●	●	●	●	●
2.60	5.20	3.00	39	**3472-2-2.60**	●	●	●	●	●
2.70	5.40	3.00	39	**3472-2-2.70**	●	●	●	●	●
2.80	5.60	3.00	39	**3472-2-2.80**	●	●	●	●	●
2.90	5.80	3.00	39	**3472-2-2.90**	●	●	●	●	●

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills

3472-4



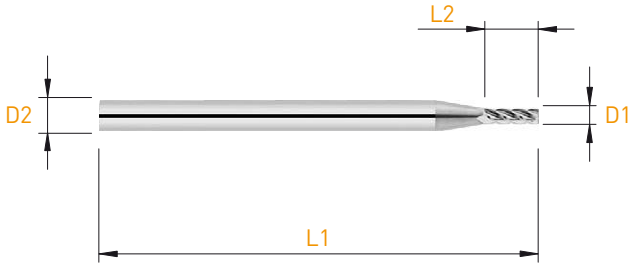
MD VHM HM | λ 40° | Sharp Corner | 4xD1 | Z=4

D1 +0.005 / -0.010	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.40	1.60	3.00	39	**3472-4-0.40**	●	●	●	●	●
0.50	2.00	3.00	39	**3472-4-0.50**	●	●	●	●	●
0.60	2.40	3.00	39	**3472-4-0.60**	●	●	●	●	●
0.70	2.80	3.00	39	**3472-4-0.70**	●	●	●	●	●
0.80	3.20	3.00	39	**3472-4-0.80**	●	●	●	●	●
0.90	3.60	3.00	39	**3472-4-0.90**	●	●	●	●	●
1.00	4.00	3.00	39	**3472-4-1.00**	●	●	●	●	●
1.10	4.40	3.00	39	**3472-4-1.10**	●	●	●	●	●
1.20	4.80	3.00	39	**3472-4-1.20**	●	●	●	●	●
1.30	5.20	3.00	39	**3472-4-1.30**	●	●	●	●	●
1.40	5.60	3.00	39	**3472-4-1.40**	●	●	●	●	●
1.50	6.00	3.00	39	**3472-4-1.50**	●	●	●	●	●
1.60	6.40	3.00	39	**3472-4-1.60**	●	●	●	●	●
1.70	6.80	3.00	39	**3472-4-1.70**	●	●	●	●	●
1.80	7.20	3.00	39	**3472-4-1.80**	●	●	●	●	●
1.90	7.60	3.00	39	**3472-4-1.90**	●	●	●	●	●
2.00	8.00	3.00	39	**3472-4-2.00**	●	●	●	●	●
2.10	8.40	3.00	39	**3472-4-2.10**	●	●	●	●	●
2.20	8.80	3.00	39	**3472-4-2.20**	●	●	●	●	●
2.30	9.20	3.00	39	**3472-4-2.30**	●	●	●	●	●
2.40	9.60	3.00	39	**3472-4-2.40**	●	●	●	●	●
2.50	10.00	3.00	39	**3472-4-2.50**	●	●	●	●	●
2.60	10.40	3.00	39	**3472-4-2.60**	●	●	●	●	●
2.70	10.80	3.00	39	**3472-4-2.70**	●	●	●	●	●
2.80	11.20	3.00	39	**3472-4-2.80**	●	●	●	●	●
2.90	11.60	3.00	39	**3472-4-2.90**	●	●	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

DHP3471-3

Micro-fraises de précision
Mikropräzisionsfräser
Precision micro end mills



MD
VHM
HM

λ 35° ↓ 38°

Sharp Corner

3xD1

Z=4

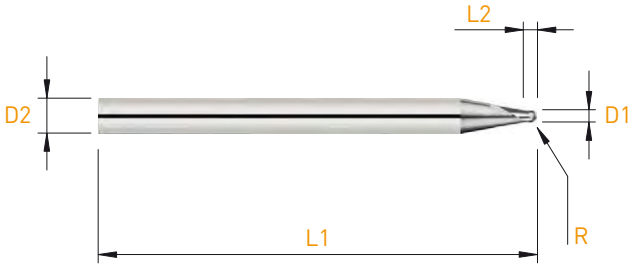
DHP

Denture à pas irrégulier, hélice progressive
Ungleiche Teilung, progressive Spirale
Uneven tooth pitch, progressive helix

D1 +0.005 / -0.010	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.50	1.50	3.00	39	**DHP3471-3-0.50**	●	●	●	●	●
0.60	1.80	3.00	39	**DHP3471-3-0.60**	●	●	●	●	●
0.70	2.10	3.00	39	**DHP3471-3-0.70**	●	●	●	●	●
0.80	2.40	3.00	39	**DHP3471-3-0.80**	●	●	●	●	●
0.90	2.70	3.00	39	**DHP3471-3-0.90**	●	●	●	●	●
1.00	3.00	3.00	39	**DHP3471-3-1.00**	●	●	●	●	●
1.10	3.30	3.00	39	**DHP3471-3-1.10**	●	●	●	●	●
1.20	3.60	3.00	39	**DHP3471-3-1.20**	●	●	●	●	●
1.30	3.90	3.00	39	**DHP3471-3-1.30**	●	●	●	●	●
1.40	4.20	3.00	39	**DHP3471-3-1.40**	●	●	●	●	●
1.50	4.50	3.00	39	**DHP3471-3-1.50**	●	●	●	●	●
1.60	4.80	3.00	39	**DHP3471-3-1.60**	●	●	●	●	●
1.70	5.10	3.00	39	**DHP3471-3-1.70**	●	●	●	●	●
1.80	5.40	3.00	39	**DHP3471-3-1.80**	●	●	●	●	●
1.90	5.70	3.00	39	**DHP3471-3-1.90**	●	●	●	●	●
2.00	6.00	3.00	39	**DHP3471-3-2.00**	●	●	●	●	●
2.50	7.50	3.00	39	**DHP3471-3-2.50**	●	●	●	●	●

Micro-fraises hémisphériques
Vollradius Mikrofräser
Ball nose micro end mills

3278-0.75



MD
VHM
HM

λ 30°

0.75xD1

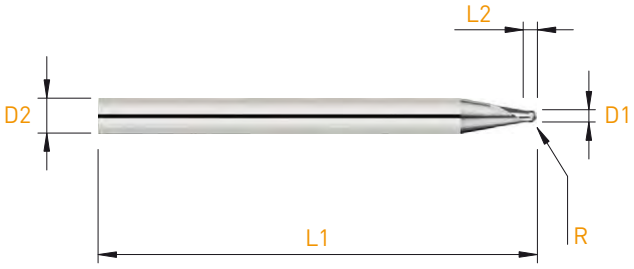
Z=2

D1 +0.005 / -0.010	R	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.20	0.10	0.15	3.00	39	**3278-0.75-0.20**	●				
0.30	0.15	0.20	3.00	39	**3278-0.75-0.30**	●	●	●	●	●
0.40	0.20	0.30	3.00	39	**3278-0.75-0.40**	●	●	●	●	●
0.50	0.25	0.35	3.00	39	**3278-0.75-0.50**	●	●	●	●	●
0.60	0.30	0.45	3.00	39	**3278-0.75-0.60**	●	●	●	●	●
0.70	0.35	0.55	3.00	39	**3278-0.75-0.70**	●	●	●	●	●
0.80	0.40	0.60	3.00	39	**3278-0.75-0.80**	●	●	●	●	●
0.90	0.45	0.70	3.00	39	**3278-0.75-0.90**	●	●	●	●	●
1.00	0.50	0.75	3.00	39	**3278-0.75-1.00**	●	●	●	●	●
1.50	0.75	1.15	3.00	39	**3278-0.75-1.50**	●	●	●	●	●
2.00	1.00	1.50	3.00	39	**3278-0.75-2.00**	●	●	●	●	●
2.50	1.25	1.90	3.00	39	**3278-0.75-2.50**	●	●	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3278-1

Micro-fraises hémisphériques
Vollradius Mikrofräser
Ball nose micro end mills



MD
VHM
HM

λ 30°

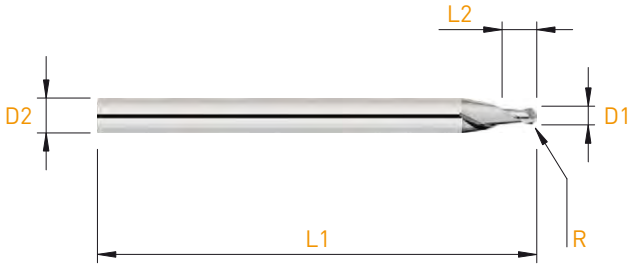
1xD1

Z=2

D1 +0.005 / -0.010	R	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.20	0.10	0.20	3.00	39	**3278-1-0.20**	●				
0.30	0.15	0.30	3.00	39	**3278-1-0.30**	●	●	●	●	●
0.40	0.20	0.40	3.00	39	**3278-1-0.40**	●	●	●	●	●
0.50	0.25	0.50	3.00	39	**3278-1-0.50**	●	●	●	●	●
0.60	0.30	0.60	3.00	39	**3278-1-0.60**	●	●	●	●	●
0.70	0.35	0.70	3.00	39	**3278-1-0.70**	●	●	●	●	●
0.80	0.40	0.80	3.00	39	**3278-1-0.80**	●	●	●	●	●
0.90	0.45	0.90	3.00	39	**3278-1-0.90**	●	●	●	●	●
1.00	0.50	1.00	3.00	39	**3278-1-1.00**	●	●	●	●	●
1.10	0.55	1.10	3.00	39	**3278-1-1.10**	●	●	●	●	●
1.20	0.60	1.20	3.00	39	**3278-1-1.20**	●	●	●	●	●
1.30	0.35	1.30	3.00	39	**3278-1-1.30**	●	●	●	●	●
1.40	0.70	1.40	3.00	39	**3278-1-1.40**	●	●	●	●	●
1.50	0.75	1.50	3.00	39	**3278-1-1.50**	●	●	●	●	●
1.60	0.80	1.60	3.00	39	**3278-1-1.60**	●	●	●	●	●
1.70	0.85	1.70	3.00	39	**3278-1-1.70**	●	●	●	●	●
1.80	0.90	1.80	3.00	39	**3278-1-1.80**	●	●	●	●	●
1.90	0.95	1.90	3.00	39	**3278-1-1.90**	●	●	●	●	●
2.00	1.00	2.00	3.00	39	**3278-1-2.00**	●	●	●	●	●
2.10	1.05	2.10	3.00	39	**3278-1-2.10**	●	●	●	●	●
2.20	1.10	2.20	3.00	39	**3278-1-2.20**	●	●	●	●	●
2.30	1.15	2.30	3.00	39	**3278-1-2.30**	●	●	●	●	●
2.40	1.20	2.40	3.00	39	**3278-1-2.40**	●	●	●	●	●
2.50	1.25	2.50	3.00	39	**3278-1-2.50**	●	●	●	●	●
2.60	1.30	2.60	3.00	39	**3278-1-2.60**	●	●	●	●	●
2.70	1.35	2.70	3.00	39	**3278-1-2.70**	●	●	●	●	●
2.80	1.40	2.80	3.00	39	**3278-1-2.80**	●	●	●	●	●
2.90	1.45	2.90	3.00	39	**3278-1-2.90**	●	●	●	●	●

Micro-fraises hémisphériques
Vollradius Mikrofräser
Ball nose micro end mills

3278-1.5



MD
VHM
HM

λ 30°

1.5xD1

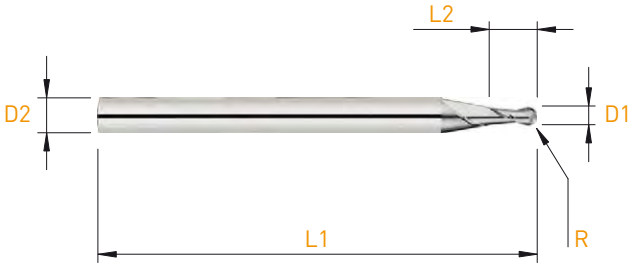
Z=2

D1 +0.005 / -0.010	R	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.20	0.10	0.30	3.00	39	**3278-1.5-0.20**	●				
0.25	0.125	0.35	3.00	39	**3278-1.5-0.25**	●				
0.30	0.15	0.45	3.00	39	**3278-1.5-0.30**	●	●	●	●	●
0.40	0.20	0.60	3.00	39	**3278-1.5-0.40**	●	●	●	●	●
0.50	0.25	0.75	3.00	39	**3278-1.5-0.50**	●	●	●	●	●
0.60	0.30	0.90	3.00	39	**3278-1.5-0.60**	●	●	●	●	●
0.70	0.35	1.05	3.00	39	**3278-1.5-0.70**	●	●	●	●	●
0.80	0.40	1.20	3.00	39	**3278-1.5-0.80**	●	●	●	●	●
0.85	0.40	1.30	3.00	39	**3278-1.5-0.85**	●	●	●	●	●
0.90	0.45	1.35	3.00	39	**3278-1.5-0.90**	●	●	●	●	●
1.00	0.50	1.50	3.00	39	**3278-1.5-1.00**	●	●	●	●	●
1.10	0.55	1.65	3.00	39	**3278-1.5-1.10**	●	●	●	●	●
1.15	0.55	1.75	3.00	39	**3278-1.5-1.15**	●	●	●	●	●
1.20	0.60	1.80	3.00	39	**3278-1.5-1.20**	●	●	●	●	●
1.30	0.65	1.95	3.00	39	**3278-1.5-1.30**	●	●	●	●	●
1.40	0.70	2.10	3.00	39	**3278-1.5-1.40**	●	●	●	●	●
1.50	0.75	2.25	3.00	39	**3278-1.5-1.50**	●	●	●	●	●
1.60	0.80	2.40	3.00	39	**3278-1.5-1.60**	●	●	●	●	●
1.70	0.85	2.60	3.00	39	**3278-1.5-1.70**	●	●	●	●	●
1.80	0.90	2.70	3.00	39	**3278-1.5-1.80**	●	●	●	●	●
1.90	0.95	2.90	3.00	39	**3278-1.5-1.90**	●	●	●	●	●
2.00	1.00	3.00	3.00	39	**3278-1.5-2.00**	●	●	●	●	●
2.10	1.05	3.20	3.00	39	**3278-1.5-2.10**	●	●	●	●	●
2.20	1.10	3.30	3.00	39	**3278-1.5-2.20**	●	●	●	●	●
2.30	1.15	3.50	3.00	39	**3278-1.5-2.30**	●	●	●	●	●
2.40	1.20	3.60	3.00	39	**3278-1.5-2.40**	●	●	●	●	●
2.50	1.25	3.75	3.00	39	**3278-1.5-2.50**	●	●	●	●	●
2.60	1.30	3.90	3.00	39	**3278-1.5-2.60**	●	●	●	●	●
2.70	1.35	4.00	3.00	39	**3278-1.5-2.70**	●	●	●	●	●
2.80	1.40	4.20	3.00	39	**3278-1.5-2.80**	●	●	●	●	●
2.90	1.45	4.40	3.00	39	**3278-1.5-2.90**	●	●	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3278-3

Micro-fraises hémisphériques
Vollradius Mikrofräser
Ball nose micro end mills

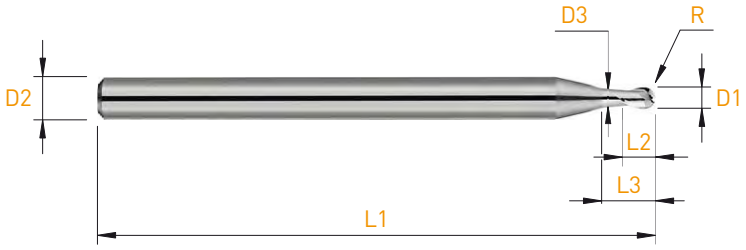


MD VHM HM | λ 30° | 3xD1 | Z=2

D1 +0.005 / -0.010	R	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.20	0.10	0.60	3.00	39	**3278-3-0.20**	●				
0.30	0.15	1.00	3.00	39	**3278-3-0.30**	●	●	●	●	●
0.40	0.20	1.00	3.00	39	**3278-3-0.40**	●	●	●	●	●
0.50	0.25	1.50	3.00	39	**3278-3-0.50**	●	●	●	●	●
0.60	0.30	1.50	3.00	39	**3278-3-0.60**	●	●	●	●	●
0.70	0.35	2.00	3.00	39	**3278-3-0.70**	●	●	●	●	●
0.80	0.40	2.00	3.00	39	**3278-3-0.80**	●	●	●	●	●
0.90	0.45	2.50	3.00	39	**3278-3-0.90**	●	●	●	●	●
1.00	0.50	3.00	3.00	39	**3278-3-1.00**	●	●	●	●	●
1.20	0.60	4.00	3.00	39	**3278-3-1.20**	●	●	●	●	●
1.30	0.65	4.00	3.00	39	**3278-3-1.30**	●	●	●	●	●
1.40	0.70	4.00	3.00	39	**3278-3-1.40**	●	●	●	●	●
1.50	0.75	4.50	3.00	39	**3278-3-1.50**	●	●	●	●	●
1.55	0.775	5.00	3.00	39	**3278-3-1.55**	●	●	●	●	●
1.60	0.80	5.00	3.00	39	**3278-3-1.60**	●	●	●	●	●
1.80	0.90	5.50	3.00	39	**3278-3-1.80**	●	●	●	●	●
2.00	1.00	6.00	3.00	39	**3278-3-2.00**	●	●	●	●	●
2.10	1.05	6.50	3.00	39	**3278-3-2.10**	●	●	●	●	●
2.20	1.10	7.00	3.00	39	**3278-3-2.20**	●	●	●	●	●
2.50	1.25	7.50	3.00	39	**3278-3-2.50**	●	●	●	●	●
2.60	1.30	7.80	3.00	39	**3278-3-2.60**	●	●	●	●	●
2.70	1.35	8.10	3.00	39	**3278-3-2.70**	●	●	●	●	●
2.80	1.40	8.40	3.00	39	**3278-3-2.80**	●	●	●	●	●
2.90	1.45	8.70	3.00	39	**3278-3-2.90**	●	●	●	●	●

Micro-fraises hémisphériques
Vollradius Mikrofräser
Ball nose micro end mills

3278H-3X



MD
VHM
HM

λ 30°

L3
3xD1

Z=2

D1 +0.005 / -0.010	R	L2	L3	D3	D2 h4 Ø3.0 h5 Ø6.0	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.20	0.10	0.30	0.60	0.19	3.00	39	**3278H-3X-0.20**	●				
0.30	0.15	0.45	0.90	0.27	3.00	39	**3278H-3X-0.30**	●	●	●	●	●
0.40	0.20	0.60	1.20	0.37	3.00	39	**3278H-3X-0.40**	●	●	●	●	●
0.50	0.25	0.75	1.50	0.45	3.00	39	**3278H-3X-0.50**	●	●	●	●	●
0.60	0.30	0.90	1.80	0.55	3.00	39	**3278H-3X-0.60**	●	●	●	●	●
0.70	0.35	1.05	2.10	0.65	3.00	39	**3278H-3X-0.70**	●	●	●	●	●
0.80	0.40	1.20	2.40	0.75	3.00	39	**3278H-3X-0.80**	●	●	●	●	●
0.90	0.45	1.35	2.70	0.85	3.00	39	**3278H-3X-0.90**	●	●	●	●	●
1.00	0.50	1.50	3.00	0.95	3.00	39	**3278H-3X-1.00**	●	●	●	●	●
1.10	0.55	1.65	3.30	1.05	3.00	39	**3278H-3X-1.10**	●	●	●	●	●
1.20	0.60	1.80	3.60	1.15	3.00	39	**3278H-3X-1.20**	●	●	●	●	●
1.30	0.65	1.95	3.90	1.25	3.00	39	**3278H-3X-1.30**	●	●	●	●	●
1.40	0.70	2.10	4.20	1.35	3.00	39	**3278H-3X-1.40**	●	●	●	●	●
1.50	0.75	2.25	4.50	1.45	3.00	39	**3278H-3X-1.50**	●	●	●	●	●
1.60	0.80	2.40	4.80	1.55	3.00	39	**3278H-3X-1.60**	●	●	●	●	●
1.70	0.85	2.55	5.10	1.65	3.00	39	**3278H-3X-1.70**	●	●	●	●	●
1.80	0.90	2.70	5.40	1.75	3.00	39	**3278H-3X-1.80**	●	●	●	●	●
1.90	0.95	2.85	5.70	1.85	3.00	39	**3278H-3X-1.90**	●	●	●	●	●
2.00	1.00	3.00	6.00	1.95	6.00	50	**3278H-3X-2.00**	●	●	●	●	●
2.10	1.05	3.15	6.30	2.05	6.00	50	**3278H-3X-2.10**	●	●	●	●	●
2.20	1.10	3.30	6.60	2.15	6.00	50	**3278H-3X-2.20**	●	●	●	●	●
2.30	1.15	3.45	6.90	2.25	6.00	50	**3278H-3X-2.30**	●	●	●	●	●
2.40	1.20	3.60	7.20	2.35	6.00	50	**3278H-3X-2.40**	●	●	●	●	●
2.50	1.25	3.75	7.50	2.45	6.00	50	**3278H-3X-2.50**	●	●	●	●	●
3.00	1.50	4.50	9.00	2.95	6.00	50	**3278H-3X-3.00**	●	●	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3278H-6X

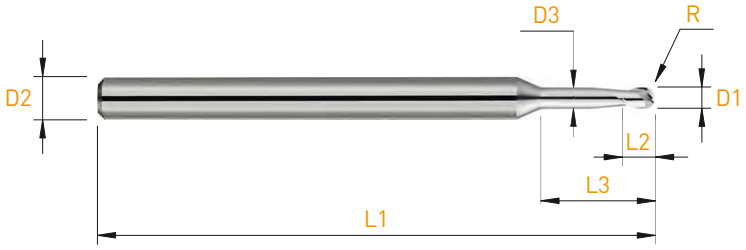
Micro-fraises hémisphériques
Vollradius Mikrofräser
Ball nose micro end mills

MD VHM HM | λ 30° | L3 6xD1 | Z=2

D1 +0.005 / -0.010	R	L2	L3	D3	D2 h4 Ø3.0 h5 Ø6.0	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.30	0.15	0.45	1.80	0.27	3.00	39	**3278H-6X-0.30**	●	●	●	●	●
0.40	0.20	0.60	2.40	0.37	3.00	39	**3278H-6X-0.40**	●	●	●	●	●
0.50	0.25	0.75	3.00	0.45	3.00	39	**3278H-6X-0.50**	●	●	●	●	●
0.60	0.30	0.90	3.60	0.55	3.00	39	**3278H-6X-0.60**	●	●	●	●	●
0.70	0.35	1.05	4.20	0.65	3.00	39	**3278H-6X-0.70**	●	●	●	●	●
0.80	0.40	1.20	4.80	0.75	3.00	39	**3278H-6X-0.80**	●	●	●	●	●
0.90	0.45	1.35	5.40	0.85	3.00	39	**3278H-6X-0.90**	●	●	●	●	●
1.00	0.50	1.50	6.00	0.95	3.00	39	**3278H-6X-1.00**	●	●	●	●	●
1.10	0.55	1.65	6.60	1.05	3.00	39	**3278H-6X-1.10**	●	●	●	●	●
1.20	0.60	1.80	7.20	1.15	3.00	39	**3278H-6X-1.20**	●	●	●	●	●
1.30	0.65	1.95	7.80	1.25	3.00	39	**3278H-6X-1.30**	●	●	●	●	●
1.40	0.70	2.10	8.40	1.35	3.00	39	**3278H-6X-1.40**	●	●	●	●	●
1.50	0.75	2.25	9.00	1.45	3.00	39	**3278H-6X-1.50**	●	●	●	●	●
1.60	0.80	2.40	9.60	1.55	3.00	39	**3278H-6X-1.60**	●	●	●	●	●
1.70	0.85	2.55	10.20	1.65	3.00	39	**3278H-6X-1.70**	●	●	●	●	●
1.80	0.90	2.70	10.80	1.75	3.00	39	**3278H-6X-1.80**	●	●	●	●	●
1.90	0.95	2.85	11.40	1.85	3.00	39	**3278H-6X-1.90**	●	●	●	●	●
2.00	1.00	3.00	12.00	1.95	6.00	50	**3278H-6X-2.00**	●	●	●	●	●
2.10	1.05	3.15	12.60	2.05	6.00	50	**3278H-6X-2.10**	●	●	●	●	●
2.20	1.10	3.30	13.20	2.15	6.00	50	**3278H-6X-2.20**	●	●	●	●	●
2.30	1.15	3.45	13.80	2.25	6.00	50	**3278H-6X-2.30**	●	●	●	●	●
2.40	1.20	3.60	14.40	2.35	6.00	50	**3278H-6X-2.40**	●	●	●	●	●
2.50	1.25	3.75	15.00	2.45	6.00	50	**3278H-6X-2.50**	●	●	●	●	●
3.00	1.50	4.50	18.00	2.95	6.00	50	**3278H-6X-3.00**	●	●	●	●	●

Micro-fraises hémisphériques
Vollradius Mikrofräser
Ball nose micro end mills

3278H-9X



MD VHM HM | λ 30° | L3 9xD1 | Z=2

D1 +0.005 / -0.010	R	L2	L3	D3	D2 h4 Ø3.0 h5 Ø6.0	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.40	0.20	0.60	3.60	0.37	3.00	39	**3278H-9X-0.40**	●	●	●	●	●
0.50	0.25	0.75	4.50	0.45	3.00	39	**3278H-9X-0.50**	●	●	●	●	●
0.60	0.30	0.90	5.40	0.55	3.00	39	**3278H-9X-0.60**	●	●	●	●	●
0.70	0.35	1.05	6.30	0.65	3.00	39	**3278H-9X-0.70**	●	●	●	●	●
0.80	0.40	1.20	7.20	0.75	3.00	39	**3278H-9X-0.80**	●	●	●	●	●
0.90	0.45	1.35	8.10	0.85	3.00	39	**3278H-9X-0.90**	●	●	●	●	●
1.00	0.50	1.50	9.00	0.95	3.00	39	**3278H-9X-1.00**	●	●	●	●	●
1.10	0.55	1.65	9.90	1.05	3.00	39	**3278H-9X-1.10**	●	●	●	●	●
1.20	0.60	1.80	10.80	1.15	3.00	39	**3278H-9X-1.20**	●	●	●	●	●
1.30	0.65	1.95	11.70	1.25	3.00	39	**3278H-9X-1.30**	●	●	●	●	●
1.40	0.70	2.10	12.60	1.35	3.00	39	**3278H-9X-1.40**	●	●	●	●	●
1.50	0.75	2.25	13.50	1.45	3.00	39	**3278H-9X-1.50**	●	●	●	●	●
1.60	0.80	2.40	14.40	1.55	3.00	39	**3278H-9X-1.60**	●	●	●	●	●
1.70	0.85	2.55	15.30	1.65	3.00	39	**3278H-9X-1.70**	●	●	●	●	●
1.80	0.90	2.70	16.20	1.75	3.00	39	**3278H-9X-1.80**	●	●	●	●	●
1.90	0.95	2.85	17.10	1.85	3.00	39	**3278H-9X-1.90**	●	●	●	●	●
2.00	1.00	3.00	18.00	1.95	6.00	50	**3278H-9X-2.00**	●	●	●	●	●
2.10	1.05	3.15	18.90	2.05	6.00	50	**3278H-9X-2.10**	●	●	●	●	●
2.20	1.10	3.30	19.80	2.15	6.00	50	**3278H-9X-2.20**	●	●	●	●	●
2.30	1.15	3.45	20.70	2.25	6.00	50	**3278H-9X-2.30**	●	●	●	●	●
2.40	1.20	3.60	21.60	2.35	6.00	50	**3278H-9X-2.40**	●	●	●	●	●
2.50	1.25	3.75	22.50	2.45	6.00	50	**3278H-9X-2.50**	●	●	●	●	●
3.00	1.50	4.50	27.00	2.95	6.00	50	**3278H-9X-3.00**	●	●	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

> 16.54

Z	λ	D1	D2	Type	Corner	page
Z=3	Div.	Ø1.00 - 8.00	Ø3/6/8	**E-DHP3300-1.5**		> 16.57
Z=4	26° / 33°	Ø10.00	Ø10 h6	**E-DHP3400-1.5**		
Z=3	Div.	Ø1.00 - 8.00	Ø3/6/8	**E-DHP3300-2.5**		
Z=4	26° / 33°	Ø10.00	Ø10 h6	**E-DHP3400-2.5**		
Z=1	23°	Ø1.00 - 6.00	Ø6 h5	**3123-2**	Sharp Corner	> 16.58
		Ø1.00 - 6.00	Ø6 h5	**3123-4**		> 16.59
Z=2	60°	Ø0.50 - 6.00	Ø3/6/8	**3260MV**		> 16.60
	90°	Ø0.30 - 6.00	Ø3/6/8	**3290MV**		> 16.61
	120°	Ø0.50 - 6.00	Ø3/6/8	**32120MV**		> 16.62
Z=2	30°	Ø1.00 - 6.00	Ø6 h5	**3230**		> 16.63
		Ø3.00 - 6.00	Ø6 h5	**3230-1.5**	Sharp Corner	> 16.64
		Ø3.00 - 6.00	Ø6 h5	**3230-3**		> 16.65
		Ø2.00 - 6.00	D1 = D2	**3231**		> 16.66
		Ø3.00 - 6.00	Ø6 h5	**3239T-2.5X**	U	> 16.67
		Ø3.00 - 6.00	Ø6 h5	**3239T-4X**		> 16.68
Z=3	30°	Ø1.00 - 6.00	Ø6 h5	**3330-S**		> 16.69
		Ø3.00-12.00	D1 = D2	**3330**		> 16.70
		Ø3.00 - 6.00	Ø6 h5	**3330-4**		> 16.71
		Ø2.00 - 6.00	D1 = D2	**3331**		> 16.72
		Ø1.50 - 6.00	Ø6 h5	**3336-HA**	Sharp Corner	> 16.73
		Ø1.50 - 6.00	Ø6 h5	**3337-HA**		> 16.73
	45°	Ø2.00 - 6.00	D1 = D2	**3341**		> 16.74
		Ø0.50 - 6.00	Ø6 h5	**3345-S**		> 16.75
	60°	Ø2.00 - 6.00	D1 = D2	**3361**		> 16.76
	35° / 38°	Ø1.00 - 6.00	Ø6 h5	**DHP3336**		> 16.77
Z=4	30°	Ø3.00 - 6.00	D1 = D2	**3430**		> 16.78
		Ø2.00 - 6.00	D1 = D2	**3431**		> 16.79
	45°	Ø2.00 - 6.00	D1 = D2	**3441**	Sharp Corner	> 16.80
		Ø0.50 - 6.00	Ø6 h5	**3445-S**		> 16.81
	50°	Ø1.00 - 6.00	Ø6 h5	**3450**		> 16.82
	35° / 38°	Ø1.00 - 6.00	Ø6 h5	**DHP3436**		> 16.83
	30°	Ø3.00 - 6.00	Ø6 h5	**3439T-2.5X**	U	> 16.84
		Ø3.00 - 6.00	Ø6 h5	**3439T-4X**		> 16.85
Z=5	45°	Ø1.00 - 6.00	Ø6 h5	**3545**	Sharp Corner	> 16.86
Z=4/5/6		Ø1.00 - 6.00	Ø6 h5	**35645**		> 16.87
Z=8	10°	Ø6.00	Ø6 h5	**3810**		> 16.88

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

> 16.54

Z	λ	D1	D2	Type	Corner	page
Z=2	30°	Ø2.00 - 6.00	D1 = D2	**3238**		> 16.89
Z=3	30°	Ø2.00 - 6.00	D1 = D2	**3338**		> 16.90
Z=3	30°	Ø8.00-12.00	Ø6 h6	**3383**		> 16.91
Z=10	30°	Ø16.3 / 20.30	Ø10 h6	**3831 / 3833**		> 16.92
Z=3	0°	Ø0.50 -3.00	Ø3 h4	**3611**		> 16.93
Z=3	0°	Ø0.50 -3.00	Ø3 h4	**3911**		> 16.94
Z=4	0°	Ø3.00-8.00	Ø3 h4 Ø6 h5 Ø8 h6	**1901 / 3901**		> 16.95

Fraises ébauches
Schruppfräser
Roughing mills

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

Matière Werkstoff Material		VC (m/min)	1.0 - 2.0 fz (mm)	2.0 - 4.0 fz (mm)	4.0 - 6.0 fz (mm)	6.0 - 10.0 fz (mm)	N	TiAlN	STF
Acier de décolletage Automatenstahl Free-cutting steel	P	100 - 140	0.010 - 0.015	0.015 - 0.030	0.030 - 0.040	0.040 - 0.060	-	★★★	★★★
Acier Stahl < 600 N/mm² Steel	P	90 - 140	0.010 - 0.015	0.015 - 0.030	0.030 - 0.040	0.040 - 0.060	-	★★★	★★★
Acier Stahl < 800 N/mm² Steel	P	90 - 140	0.010 - 0.015	0.015 - 0.030	0.030 - 0.040	0.040 - 0.060	-	★★★	★★★
Acier Stahl > 800 N/mm² Steel	P	80 - 120	0.010 - 0.015	0.015 - 0.030	0.030 - 0.040	0.040 - 0.060	-	★★★	★★★
Acier trempé Gehärteter Stahl -55HRC Hardened steel	H	120 - 170	0.005 - 0.008	0.008 - 0.015	0.015 - 0.020	0.020 - 0.035	-	★★★	★★★
Acier trempé Gehärteter Stahl +55HRC Hardened steel	H	110 - 150	0.005 - 0.008	0.008 - 0.015	0.015 - 0.020	0.020 - 0.035	-	★★★	★★★
Inox Rostfreistahl Stainless steel	M	50 - 90	0.004 - 0.008	0.008 - 0.012	0.012 - 0.020	0.020 - 0.040	-	★★★	★★★
Aluminium	N	250 - 350	0.008 - 0.015	0.015 - 0.030	0.030 - 0.040	0.040 - 0.065	-	★★★	★★
Cuivre, laiton, bronze Kupfer, Messing, Bronze Copper, brass, bronze	N	130 - 240	0.005 - 0.010	0.010 - 0.020	0.020 - 0.030	0.030 - 0.050	-	★★★	★★
Matière synthétique Synthetisches Material Synthetic material	N	150 - 300	0.020 - 0.030	0.030 - 0.050	0.050 - 0.080	0.080 - 0.150	-	★★★	★★
Métaux précieux Edelmetalle Precious metals	N	120 - 150	0.005 - 0.010	0.010 - 0.020	0.020 - 0.030	0.030 - 0.050	-	★★★	★★
Titane Titan Titanium	S	50 - 100	0.010 - 0.015	0.015 - 0.020	0.020 - 0.030	0.030 - 0.050	-	★★★	★★★
Alliage de nickel Nickel-Legierung Nickel alloy	S	40 - 60	0.005 - 0.007	0.007-0.012	0.012 - 0.020	0.020 - 0.030	-	★★★	★★★
Matière exotique Exotisches material Exotic material	O	15 - 25	0.005 - 0.010	0.010 - 0.020	0.020 - 0.030	0.030 - 0.050	-	★★★	★★★

Avec revêtement, augmenter les valeurs de 20-30%
Mit Beschichtung, Daten um 20-30% erhöhen
With coating, increase data by 20-30%

★ Bien / Gut / Good
★★ Très bien / Sehr gut / Very good
★★★ Excellent / Ausgezeichnet / Excellent

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

Fraises en bout
Schaftfräser
End mills

Matière Werkstoff Material	VC (m/min)	0.50 - 2.0 fz (mm)	2.0 - 4.0 fz (mm)	4.0 - 6.0 fz (mm)	6.0 - 8.0 fz (mm)	8.0 - 12.0 fz (mm)	N	TiAlN	STF	DLC
Acier de décolletage Automatenstahl Free-cutting steel (P)	80 - 130	0.004-0.015	0.015 - 0.025	0.025 - 0.035	0.035 - 0.050	0.050 - 0.080	-	★★★	★★★	-
Acier Stahl Steel < 600 N/mm² (P)	70 - 100	0.004-0.015	0.015 - 0.025	0.025 - 0.035	0.035 - 0.050	0.050 - 0.080	-	★★★	★★★	-
Acier Stahl Steel < 800 N/mm² (P)	70 - 100	0.004-0.015	0.015 - 0.025	0.025 - 0.035	0.035 - 0.050	0.050 - 0.080	-	★★★	★★★	-
Acier Stahl Steel > 800 N/mm² (P)	50 - 80	0.004-0.015	0.015 - 0.025	0.025 - 0.035	0.035 - 0.050	0.050 - 0.080	-	★★★	★★★	-
Acier trempé Gehärteter Stahl -55HRC Hardened steel (H)	60 - 90	0.002 - 0.008	0.008 - 0.015	0.012 - 0.020	0.020 - 0.025	0.025 - 0.030	-	★★★	★★★	-
Acier trempé Gehärteter Stahl +55HRC Hardened steel (H)	40 - 70	0.002 - 0.008	0.008 - 0.015	0.012 - 0.020	0.020 - 0.025	0.020 - 0.030	-	★★★	★★★	-
Inox Rostfreistahl Stainless steel (M)	40 - 80	0.003 - 0.008	0.008 - 0.015	0.015 - 0.020	0.020 - 0.030	0.030 - 0.050	-	★★★	★★★	-
Aluminium (N)	230 - 320	0.003 - 0.010	0.010 - 0.025	0.025 - 0.030	0.030 - 0.050	0.050 - 0.080	★★	★	★★	★★★
Cuivre, laiton, bronze Kupfer, Messing, Bronze Copper, brass, bronze (N)	100 - 190	0.003 - 0.010	0.010 - 0.020	0.020 - 0.030	0.030 - 0.040	0.040 - 0.070	★★	★	★★	★★★
Matière synthétique Synthetisches Material Synthetic material (N)	250 - 500	0.005 - 0.030	0.030 - 0.050	0.050 - 0.080	0.080 - 0.100	0.100 - 0.200	★★★	-	★★	★★★
Métaux précieux Edelmetalle Precious metals (N)	90 - 150	0.003 - 0.015	0.015 - 0.025	0.025 - 0.030	0.030 - 0.050	0.050 - 0.080	★★★	★	★★	★★★
Titane Titan Titanium (S)	30 - 70	0.004 - 0.010	0.010 - 0.017	0.017-0.025	0.025 - 0.035	0.035 - 0.050	-	★★	★★★	-
Alliage de nickel Nickel-Legierung Nickel alloy (S)	30 - 60	0.003 - 0.008	0.008 - 0.015	0.015 - 0.020	0.020 - 0.025	0.025 - 0.040	-	★★★	★★★	-
Matière exotique Exotisches material Exotic material (O)	15 - 25	0.002 - 0.008	0.008 - 0.020	0.020 - 0.030	0.030 - 0.040	0.040 - 0.050	-	★★★	★★★	★★

Avec revêtement, augmenter les valeurs de 20-30%
Mit Beschichtung, Daten um 20-30% erhöhen
With coating, increase data by 20-30%

★ Bien / Gut / Good
★★ Très bien / Sehr gut / Very good
★★★ Excellent / Ausgezeichnet / Excellent

Fraises à angler
Kegelsenker
Chamfering tools

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

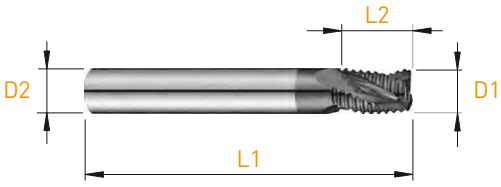
Matière Werkstoff Material		VC (m/min)	N	TiAlN	STF
Acier de décolletage Automatenstahl Free-cutting steel	P	80 - 130	★	★★★	★★★
Acier Stahl Steel	< 600 N/mm² P	70 - 100	★	★★★	★★★
Acier Stahl Steel	< 800 N/mm² P	70 - 100	★	★★★	★★★
Acier Stahl Steel	> 800 N/mm² P	50 - 80	★	★★★	★★★
Acier trempé Gehärteter Stahl Hardened steel	-55HRC H	60 - 90	-	★★	★★★
Acier trempé Gehärteter Stahl Hardened steel	+55HRC H	40 - 70	-	★★	★★★
Inox Rostfreistahl Stainless steel	M	50 - 100	★	★★★	★★★
Aluminium	N	200 - 300	★★★	★★	★★★
Cuivre, laiton, bronze Kupfer, Messing, Bronze Copper, brass, bronze	N	100 - 200	★★★	★★	★★★
Matière synthétique Synthetisches Material Synthetic material	N	200 - 500	★★★	★★	★★
Métaux précieux Edelmetalle Precious metals	N	90 - 140	★★★	★★	★★★
Titane Titan Titanium	S	30 - 80	-	★★★	★★★
Alliage de nickel Nickel-Legierung Nickel alloy	S	30 - 60	-	★★★	★★★
Matière exotique Exotisches material Exotic material	O	20 - 30	-	★★★	★★★

Avec revêtement, augmenter les valeurs de 20-30%
Mit Beschichtung, Daten um 20-30% erhöhen
With coating, increase data by 20-30%

★ Bien / Gut / Good
★★ Très bien / Sehr gut / Very good
★★★ Excellent / Ausgezeichnet / Excellent

Fraises ébauches
Schruppfräser
Roughing mills

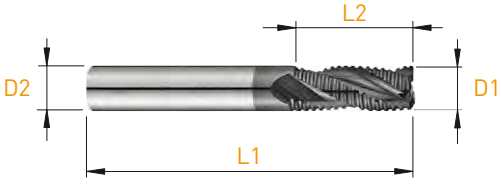
E-DHP3300 / 3400



MD
VHM
HM

1.5xD1

	Z	E	λ	D1 h10	L2	D2 Ø3 h4 Ø6 h5 Ø8 h6 Ø10 h6	L1	Art. N°	N	TiAlN	STF
	3	0.05	26°/30°	1.00	1.50	3.00	39	**E-DHP3300-1.5-1.00**	●	●	●
	3	0.10	26°/30°	1.50	2.25	3.00	39	**E-DHP3300-1.5-1.50**	●	●	●
	3	0.20	26°/30°	2.00	3.00	3.00	39	**E-DHP3300-1.5-2.00**	●	●	●
	3	0.20	26°/33°	2.50	3.75	6.00	50	**E-DHP3300-1.5-2.50**	●	●	●
	3	0.20	26°/33°	3.00	4.25	6.00	50	**E-DHP3300-1.5-3.00**	●	●	●
	3	0.30	26°/33°	4.00	6.00	6.00	50	**E-DHP3300-1.5-4.00**	●	●	●
	3	0.30	26°/33°	5.00	7.50	6.00	50	**E-DHP3300-1.5-5.00**	●	●	●
	3	0.40	26°/33°	6.00	9.00	6.00	50	**E-DHP3300-1.5-6.00**	●	●	●
	3	0.50	26°/33°	8.00	12.00	8.00	64	**E-DHP3300-1.5-8.00**	●	●	●
	4	0.50	26°/33°	10.00	15.00	10.00	73	**E-DHP3400-1.5-10.00**	●	●	●



MD
VHM
HM

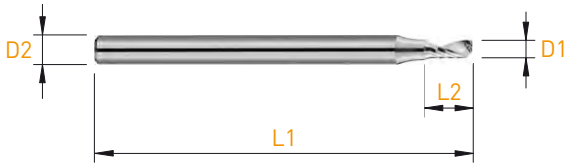
2.5xD1

	Z	E	λ	D1 h10	L2	D2 Ø3 h4 Ø6 h5 Ø8 h6 Ø10 h6	L1	Art. N°	N	TiAlN	STF
	3	0.05	26°/30°	1.00	2.50	3.00	39	**E-DHP3300-2.5-1.00**	●	●	●
	3	0.10	26°/30°	1.50	3.75	3.00	39	**E-DHP3300-2.5-1.50**	●	●	●
	3	0.20	26°/30°	2.00	5.00	3.00	39	**E-DHP3300-2.5-2.00**	●	●	●
	3	0.20	26°/33°	2.50	6.25	6.00	57	**E-DHP3300-2.5-2.50**	●	●	●
	3	0.20	26°/33°	3.00	7.50	6.00	57	**E-DHP3300-2.5-3.00**	●	●	●
	3	0.30	26°/33°	4.00	10.00	6.00	57	**E-DHP3300-2.5-4.00**	●	●	●
	3	0.30	26°/33°	5.00	12.50	6.00	57	**E-DHP3300-2.5-5.00**	●	●	●
	3	0.40	26°/33°	6.00	15.00	6.00	57	**E-DHP3300-2.5-6.00**	●	●	●
	3	0.50	26°/33°	8.00	20.00	8.00	64	**E-DHP3300-2.5-8.00**	●	●	●
	4	0.50	26°/33°	10.00	25.00	10.00	73	**E-DHP3400-2.5-10.00**	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3123-2

Fraises en bout de finition
Schlicht Schaftfräser
Finishing end mills

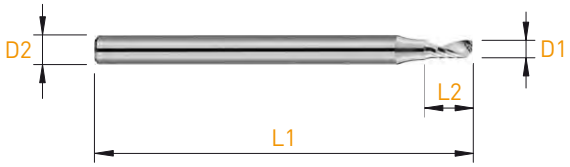


MD VHM HM	λ 23°	Sharp Corner		2xD1	Z=1

D1 h10	L2	D2 h5	L1	Art. N°	N	TiAlN	STF	DLC
1.00	2.00	6.00	50	**3123-2-1.0**	●	●	●	●
2.00	4.00	6.00	50	**3123-2-2.0**	●	●	●	●
3.00	6.00	6.00	50	**3123-2-3.0**	●	●	●	●
4.00	8.00	6.00	50	**3123-2-4.0**	●	●	●	●
5.00	10.00	6.00	50	**3123-2-5.0**	●	●	●	●
6.00	12.00	6.00	50	**3123-2-6.0**	●	●	●	●

Fraises en bout de finition
Schlicht Schaftfräser
Finishing end mills

3123-4



MD
VHM
HM

λ 23°

Sharp Corner

4xD1

Z=1

D1 h10	L2	D2 h5	L1	Art. N°	N	TiAlN	STF	DLC
1.00	4.00	6.00	50	**3123-4-1.0**	●	●	●	●
2.00	8.00	6.00	50	**3123-4-2.0**	●	●	●	●
3.00	12.00	6.00	50	**3123-4-3.0**	●	●	●	●
4.00	16.00	6.00	50	**3123-4-4.0**	●	●	●	●
5.00	20.00	6.00	50	**3123-4-5.0**	●	●	●	●
6.00	24.00	6.00	50	**3123-4-6.0**	●	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3260MV

Fraises en bout
Schaftfräser
End mills

MD VHM HM	60°		Z=2	

D1 h10	E	L2	D2 Ø3 h4 Ø6 h5 Ø8 h6	L1	Art. N°	N	TiAlN	STF
0.50	0.05	1.00	3.00	39	**3260MV-0.5**	●	●	●
1.00	0.10	2.00	3.00	39	**3260MV-1.0**	●	●	●
1.50	0.15	3.00	3.00	39	**3260MV-1.5**	●	●	●
2.00	0.20	4.00	3.00	39	**3260MV-2.0**	●	●	●
2.50	0.25	5.00	3.00	39	**3260MV-2.5**	●	●	●
3.00	0.30	6.00	6.00	50	**3260MV-3.0**	●	●	●
4.00	0.40	8.00	6.00	50	**3260MV-4.0**	●	●	●
6.00	0.60	12.00	8.00	64	**3260MV-6.0**	●	●	●

Fraises en bout
Schaftfräser
End mills

3290MV

MD
VHM
HM

90°

Z=2

D1 h10	E	L2	D2 Ø3 h4 Ø6 h5 Ø8 h6	L1	Art. N°	N	TiAlN	STF
0.30	0.03	0.60	3.00	39	**3290MV-0.3**	●	●	●
0.40	0.04	0.80	3.00	39	**3290MV-0.4**	●	●	●
0.50	0.05	1.00	3.00	39	**3290MV-0.5**	●	●	●
0.60	0.06	1.20	3.00	39	**3290MV-0.6**	●	●	●
0.70	0.07	1.40	3.00	39	**3290MV-0.7**	●	●	●
0.80	0.08	1.60	3.00	39	**3290MV-0.8**	●	●	●
0.90	0.09	1.80	3.00	39	**3290MV-0.9**	●	●	●
1.00	0.10	2.00	3.00	39	**3290MV-1.0**	●	●	●
1.10	0.11	2.20	3.00	39	**3290MV-1.1**	●	●	●
1.20	0.12	2.40	3.00	39	**3290MV-1.2**	●	●	●
1.30	0.13	2.60	3.00	39	**3290MV-1.3**	●	●	●
1.40	0.14	2.80	3.00	39	**3290MV-1.4**	●	●	●
1.50	0.15	3.00	3.00	39	**3290MV-1.5**	●	●	●
1.60	0.16	3.20	3.00	39	**3290MV-1.6**	●	●	●
1.70	0.17	3.40	3.00	39	**3290MV-1.7**	●	●	●
1.80	0.18	3.60	3.00	39	**3290MV-1.8**	●	●	●
1.90	0.19	3.80	3.00	39	**3290MV-1.9**	●	●	●
2.00	0.20	4.00	3.00	39	**3290MV-2.0**	●	●	●
2.50	0.25	5.00	3.00	39	**3290MV-2.5**	●	●	●
3.00	0.30	6.00	6.00	50	**3290MV-3.0**	●	●	●
4.00	0.40	8.00	6.00	50	**3290MV-4.0**	●	●	●
6.00	0.60	12.00	8.00	64	**3290MV-6.0**	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

32120MV

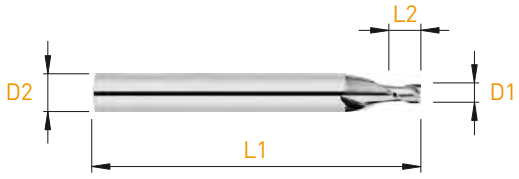
Fraises en bout
Schaftfräser
End mills

MD VHM HM	120°		Z=2	

D1 h10	E	L2	D2 Ø3 h4 Ø6 h5 Ø8 h6	L1	Art. N°	N	TiAlN	STF
0.50	0.05	1.00	3.00	39	**32120MV-0.5**	●	●	●
1.00	0.10	2.00	3.00	39	**32120MV-1.0**	●	●	●
1.50	0.15	3.00	3.00	39	**32120MV-1.5**	●	●	●
2.00	0.20	4.00	3.00	39	**32120MV-2.0**	●	●	●
2.50	0.25	5.00	3.00	39	**32120MV-2.5**	●	●	●
3.00	0.30	6.00	6.00	50	**32120MV-3.0**	●	●	●
4.00	0.40	8.00	6.00	50	**32120MV-4.0**	●	●	●
6.00	0.60	12.00	8.00	64	**32120MV-6.0**	●	●	●

Fraises en bout de finition
Schlicht Schaftfräser
Finishing end mills

3230



MD
VHM
HM

λ 30°

Sharp Corner

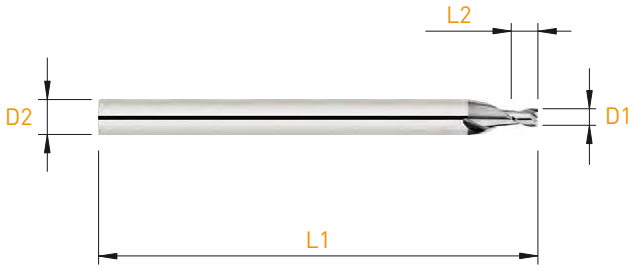
Z=2

D1 h10	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
1.00	1.00	6.00	50	**3230-1.0**	●	●	●
1.50	1.50	6.00	50	**3230-1.5**	●	●	●
2.00	2.00	6.00	50	**3230-2.0**	●	●	●
2.50	2.50	6.00	50	**3230-2.5**	●	●	●
3.00	3.00	6.00	50	**3230-3.0**	●	●	●
4.00	4.00	6.00	50	**3230-4.0**	●	●	●
5.00	5.00	6.00	50	**3230-5.0**	●	●	●
6.00	6.00	6.00	50	**3230-6.0**	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3230-1.5

Fraises en bout de finition
Schlicht Schaftfräser
Finishing end mills



MD
VHM
HM

λ 30°

Sharp Corner

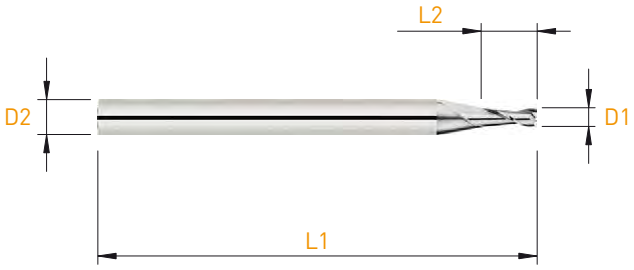
1.5xD1

Z=2

D1 h10	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
3.00	4.50	6.00	50	**3230-1.5-3.0**	●	●	●
3.50	5.00	6.00	50	**3230-1.5-3.5**	●	●	●
4.00	6.00	6.00	50	**3230-1.5-4.0**	●	●	●
4.50	7.00	6.00	50	**3230-1.5-4.5**	●	●	●
5.00	8.00	6.00	50	**3230-1.5-5.0**	●	●	●
6.00	9.00	6.00	50	**3230-1.5-6.0**	●	●	●

Fraises en bout de finition
Schlicht Schaftfräser
Finishing end mills

3230-3



MD
VHM
HM

λ 30°

Sharp Corner

3xD1

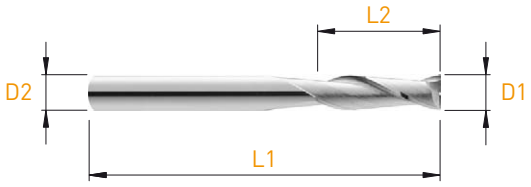
Z=2

D1 h10	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
3.00	9.00	6.00	50	**3230-3-3.0**	●	●	●
3.50	10.00	6.00	50	**3230-3-3.5**	●	●	●
4.00	12.00	6.00	50	**3230-3-4.0**	●	●	●
4.50	13.00	6.00	50	**3230-3-4.5**	●	●	●
5.00	15.00	6.00	50	**3230-3-5.0**	●	●	●
6.00	18.00	6.00	50	**3230-3-6.0**	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3231

Fraises en bout de finition
Schlicht Schaftfräser
Finishing end mills



MD
VHM
HM

λ 30°

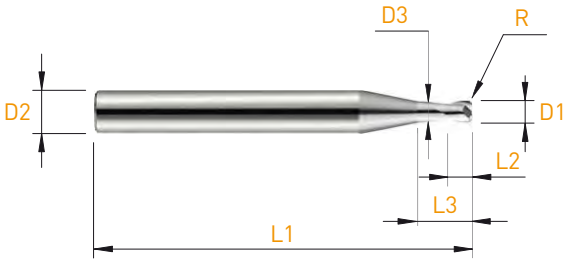
Sharp Corner

Z=2

D1 e9	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
2.00	8.00	2.00	32	**3231-2.0**	●	●	●
2.50	8.00	2.50	32	**3231-2.5**	●	●	●
3.00	12.00	3.00	32	**3231-3.0**	●	●	●
3.50	12.00	3.50	32	**3231-3.5**	●	●	●
4.00	12.00	4.00	40	**3231-4.0**	●	●	●
4.50	14.00	4.50	50	**3231-4.5**	●	●	●
5.00	14.00	5.00	50	**3231-5.0**	●	●	●
6.00	16.00	6.00	50	**3231-6.0**	●	●	●

Fraises en bout de finition
Schlicht Schaftfräser
Finishing end mills

3239T-2.5X

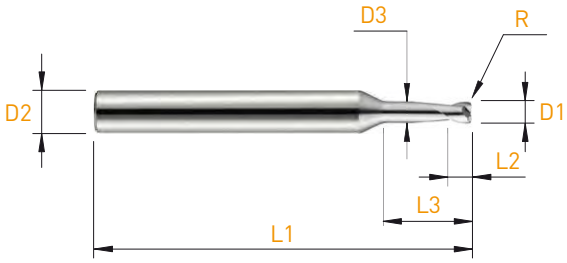


MD VHM HM | λ 30° | Radius Corner | L3 2.5xD1 | Z=2

D1 h10	R +/- 0.02	L2	L3	D3	D2 h5	L1	Art. N°	N	TiAlN	STF
3.00	0.50	3.00	7.50	2.95	6.00	57	**3239T-2.5X-3.0**	●	●	●
3.50	0.50	3.50	8.75	3.45	6.00	57	**3239T-2.5X-3.5**	●	●	●
4.00	0.50	4.00	10.00	3.95	6.00	57	**3239T-2.5X-4.0**	●	●	●
4.50	0.50	4.50	11.25	4.45	6.00	57	**3239T-2.5X-4.5**	●	●	●
5.00	0.50	5.00	12.50	4.95	6.00	57	**3239T-2.5X-5.0**	●	●	●
5.50	0.50	5.50	13.75	5.45	6.00	57	**3239T-2.5X-5.5**	●	●	●
6.00	0.50	6.00	15.00	5.95	6.00	57	**3239T-2.5X-6.0**	●	●	●

3239T-4X

Fraises en bout de finition
Schlicht Schaftfräser
Finishing end mills

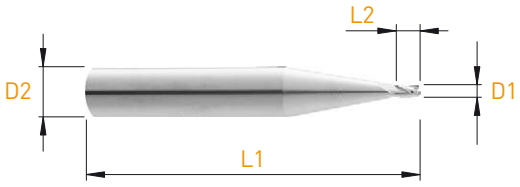


MD VHM HM | λ 30° | Radius Corner | L3 4xD1 | Z=2

D1 h10	R +/- 0.02	L2	L3	D3	D2 h5	L1	Art. N°	N	TiAlN	STF
3.00	0.50	3.00	12.00	2.95	6.00	57	**3239T-4X-3.0**	●	●	●
3.50	0.50	3.50	14.00	3.45	6.00	57	**3239T-4X-3.5**	●	●	●
4.00	0.50	4.00	16.00	3.95	6.00	57	**3239T-4X-4.0**	●	●	●
4.50	0.50	4.50	18.00	4.45	6.00	57	**3239T-4X-4.5**	●	●	●
5.00	0.50	5.00	20.00	4.95	6.00	57	**3239T-4X-5.0**	●	●	●
5.50	0.50	5.50	22.00	5.45	6.00	57	**3239T-4X-5.5**	●	●	●
6.00	0.50	6.00	24.00	5.95	6.00	57	**3239T-4X-6.0**	●	●	●

Fraises en bout de finition
Schlicht Schaftfräser
Finishing end mills

3330-S



MD
VHM
HM

λ 30°

Sharp Corner

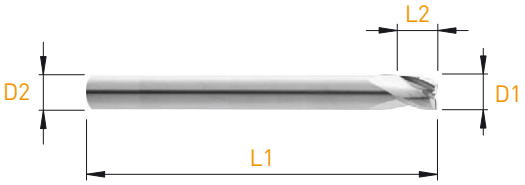
Z=3

D1 h10	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
1.00	3.00	6.00	40	**3330-S-1.0**	●	●	●
1.50	3.00	6.00	40	**3330-S-1.5**	●	●	●
2.00	3.00	6.00	40	**3330-S-2.0**	●	●	●
2.50	3.00	6.00	40	**3330-S-2.5**	●	●	●
3.00	4.00	6.00	40	**3330-S-3.0**	●	●	●
3.50	4.00	6.00	40	**3330-S-3.5**	●	●	●
4.00	5.00	6.00	40	**3330-S-4.0**	●	●	●
4.50	5.00	6.00	40	**3330-S-4.5**	●	●	●
5.00	6.00	6.00	40	**3330-S-5.0**	●	●	●
6.00	7.00	6.00	40	**3330-S-6.0**	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3330

Fraises en bout de finition
Schlicht Schaftfräser
Finishing end mills



MD
VHM
HM

λ 30°

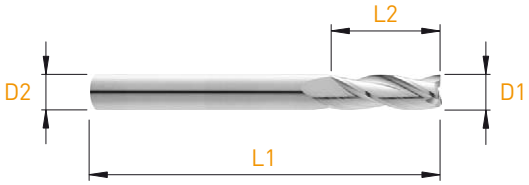
Sharp Corner

Z=3

D1 e9	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
3.00	3.00	3.00	39	**3330-3.0**	●	●	●
4.00	4.00	4.00	50	**3330-4.0**	●	●	●
5.00	5.00	5.00	50	**3330-5.0**	●	●	●
6.00	6.00	6.00	50	**3330-6.0**	●	●	●
8.00	8.00	8.00	58	**3330-8.0**	●		
10.00	10.00	10.00	66	**3330-10.0**	●		
12.00	12.00	12.00	73	**3330-12.0**	●		

Fraises en bout de finition
Schlicht Schaftfräser
Finishing end mills

3330-4



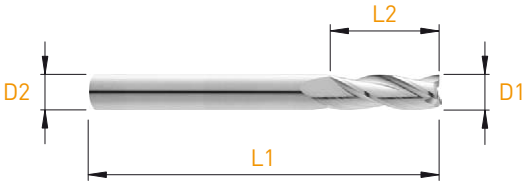
MD VHM HM	λ 30°	Sharp Corner		4xD1	Z=3	

D1 h10	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
3.00	12.00	6.00	50	**3330-4-3.0**	●	●	●
4.00	16.00	6.00	50	**3330-4-4.0**	●	●	●
5.00	20.00	6.00	50	**3330-4-5.0**	●	●	●
6.00	24.00	6.00	57	**3330-4-6.0**	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3331

Fraises en bout de finition
Schlicht Schaftfräser
Finishing end mills



MD
VHM
HM

λ 30°

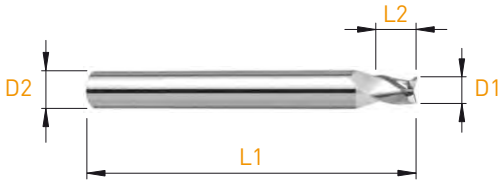
Sharp Corner

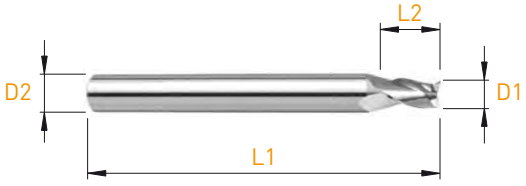
Z=3

D1 e9	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
2.00	8.00	2.00	32	**3331-2.0**	●	●	●
2.50	8.00	2.50	32	**3331-2.5**	●	●	●
3.00	12.00	3.00	32	**3331-3.0**	●	●	●
3.50	12.00	3.50	32	**3331-3.5**	●	●	●
4.00	12.00	4.00	40	**3331-4.0**	●	●	●
4.50	14.00	4.50	50	**3331-4.5**	●	●	●
5.00	14.00	5.00	50	**3331-5.0**	●	●	●
6.00	16.00	6.00	50	**3331-6.0**	●	●	●

Fraises en bout de finition
Schlicht Schaftfräser
Finishing end mills

3336-HA / 3337-HA





MD VHM HM | λ 30° | Sharp Corner | DIN 6527K | Z=3

D1 h10	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
1.50	3.00	6.00	50	**3336-HA-1.5**	●	●	●
1.80	3.00	6.00	50	**3336-HA-1.8**	●	●	●
2.00	3.00	6.00	50	**3336-HA-2.0**	●	●	●
2.50	3.00	6.00	50	**3336-HA-2.5**	●	●	●
2.80	4.00	6.00	50	**3336-HA-2.8**	●	●	●
3.00	4.00	6.00	50	**3336-HA-3.0**	●	●	●
3.50	4.00	6.00	50	**3336-HA-3.5**	●	●	●
3.80	5.00	6.00	54	**3336-HA-3.8**	●	●	●
4.00	5.00	6.00	54	**3336-HA-4.0**	●	●	●
4.50	5.00	6.00	54	**3336-HA-4.5**	●	●	●
4.80	6.00	6.00	54	**3336-HA-4.8**	●	●	●
5.00	6.00	6.00	54	**3336-HA-5.0**	●	●	●
5.50	7.00	6.00	54	**3336-HA-5.5**	●	●	●
5.80	7.00	6.00	54	**3336-HA-5.8**	●	●	●
6.00	7.00	6.00	54	**3336-HA-6.0**	●	●	●

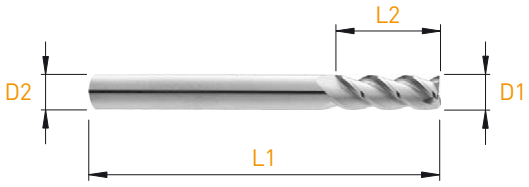
MD VHM HM | λ 30° | Sharp Corner | DIN 6527L | Z=3

D1 h10	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
1.50	6.00	6.00	57	**3337-HA-1.5**	●	●	●
1.80	6.00	6.00	57	**3337-HA-1.8**	●	●	●
2.00	6.00	6.00	57	**3337-HA-2.0**	●	●	●
2.50	6.00	6.00	57	**3337-HA-2.5**	●	●	●
2.80	7.00	6.00	57	**3337-HA-2.8**	●	●	●
3.00	7.00	6.00	57	**3337-HA-3.0**	●	●	●
3.50	7.00	6.00	57	**3337-HA-3.5**	●	●	●
3.80	8.00	6.00	57	**3337-HA-3.8**	●	●	●
4.00	8.00	6.00	57	**3337-HA-4.0**	●	●	●
4.50	8.00	6.00	57	**3337-HA-4.5**	●	●	●
4.80	10.00	6.00	57	**3337-HA-4.8**	●	●	●
5.00	10.00	6.00	57	**3337-HA-5.0**	●	●	●
5.50	10.00	6.00	57	**3337-HA-5.5**	●	●	●
5.80	10.00	6.00	57	**3337-HA-5.8**	●	●	●
6.00	10.00	6.00	57	**3337-HA-6.0**	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3341

Fraises en bout de finition
Schlicht Schaftfräser
Finishing end mills



MD
VHM
HM

λ 45°

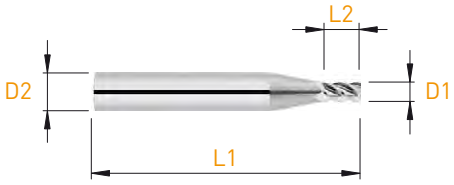
Sharp Corner

Z=3

D1 e9	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
2.00	8.00	2.00	32	**3341-2.0**	●	●	●
2.50	8.00	2.50	32	**3341-2.5**	●	●	●
3.00	12.00	3.00	32	**3341-3.0**	●	●	●
3.50	12.00	3.50	32	**3341-3.5**	●	●	●
4.00	12.00	4.00	40	**3341-4.0**	●	●	●
4.50	14.00	4.50	50	**3341-4.5**	●	●	●
5.00	14.00	5.00	50	**3341-5.0**	●	●	●
6.00	16.00	6.00	50	**3341-6.0**	●	●	●

Fraises en bout de finition
Schlicht Schaftfräser
Finishing end mills

3345-S



MD
VHM
HM

λ 45°

Sharp Corner

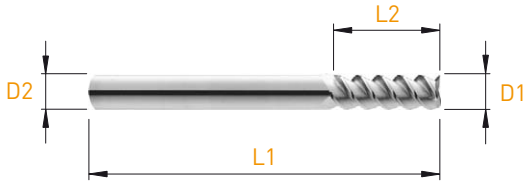
Z=3

D1 h10	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
0.50	1.00	6.00	40	**3345-S-0.5**	●	●	●
0.60	1.20	6.00	40	**3345-S-0.6**	●	●	●
0.70	1.40	6.00	40	**3345-S-0.7**	●	●	●
0.80	1.60	6.00	40	**3345-S-0.8**	●	●	●
0.90	1.80	6.00	40	**3345-S-0.9**	●	●	●
1.00	2.00	6.00	40	**3345-S-1.0**	●	●	●
1.10	2.20	6.00	40	**3345-S-1.1**	●	●	●
1.20	2.40	6.00	40	**3345-S-1.2**	●	●	●
1.30	2.60	6.00	40	**3345-S-1.3**	●	●	●
1.40	2.80	6.00	40	**3345-S-1.4**	●	●	●
1.50	3.00	6.00	40	**3345-S-1.5**	●	●	●
1.60	3.20	6.00	40	**3345-S-1.6**	●	●	●
1.70	3.40	6.00	40	**3345-S-1.7**	●	●	●
1.80	3.60	6.00	40	**3345-S-1.8**	●	●	●
1.90	3.80	6.00	40	**3345-S-1.9**	●	●	●
2.00	4.00	6.00	40	**3345-S-2.0**	●	●	●
2.10	4.20	6.00	40	**3345-S-2.1**	●	●	●
2.20	4.40	6.00	40	**3345-S-2.2**	●	●	●
2.30	4.60	6.00	40	**3345-S-2.3**	●	●	●
2.40	4.80	6.00	40	**3345-S-2.4**	●	●	●
2.50	5.00	6.00	40	**3345-S-2.5**	●	●	●
2.60	5.20	6.00	40	**3345-S-2.6**	●	●	●
2.70	5.40	6.00	40	**3345-S-2.7**	●	●	●
2.80	5.60	6.00	40	**3345-S-2.8**	●	●	●
2.90	5.80	6.00	40	**3345-S-2.9**	●	●	●
3.00	6.00	6.00	40	**3345-S-3.0**	●	●	●
3.50	7.00	6.00	40	**3345-S-3.5**	●	●	●
4.00	8.00	6.00	40	**3345-S-4.0**	●	●	●
4.50	9.00	6.00	40	**3345-S-4.5**	●	●	●
5.00	10.00	6.00	40	**3345-S-5.0**	●	●	●
6.00	12.00	6.00	40	**3345-S-6.0**	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3361

Fraises en bout de finition
Schlicht Schaftfräser
Finishing end mills



MD
VHM
HM

λ 60°

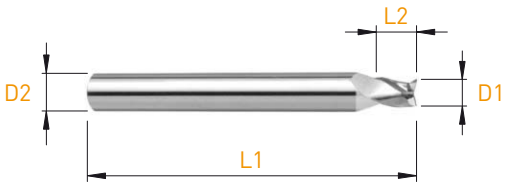
Sharp Corner

Z=3

D1 e9	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
2.00	8.00	2.00	32	**3361-2.0**	●	●	●
2.50	8.00	2.50	32	**3361-2.5**	●	●	●
3.00	12.00	3.00	32	**3361-3.0**	●	●	●
3.50	12.00	3.50	32	**3361-3.5**	●	●	●
4.00	12.00	4.00	40	**3361-4.0**	●	●	●
4.50	14.00	4.50	50	**3361-4.5**	●	●	●
5.00	14.00	5.00	50	**3361-5.0**	●	●	●
6.00	16.00	6.00	50	**3361-6.0**	●	●	●

Fraises en bout de finition
Schlicht Schaftfräser
Finishing end mills

DHP3336



MD
VHM
HM

λ 35° ↓ 38°

Sharp Corner

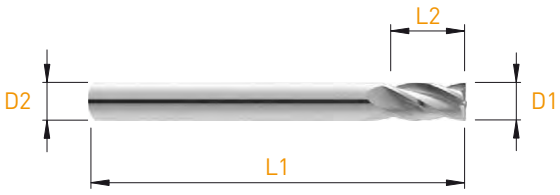
Z=3

DHP

Denture à pas irrégulier, hélice progressive
Ungleiche Teilung, progressive Spirale
Uneven tooth pitch, progressive helix

D1 h10	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
1.00	4.00	6.00	40	**DHP3336-1.0**	●	●	●
1.50	4.00	6.00	40	**DHP3336-1.5**	●	●	●
2.00	4.00	6.00	40	**DHP3336-2.0**	●	●	●
2.50	4.00	6.00	40	**DHP3336-2.5**	●	●	●
3.00	5.00	6.00	40	**DHP3336-3.0**	●	●	●
3.50	5.00	6.00	40	**DHP3336-3.5**	●	●	●
4.00	6.00	6.00	40	**DHP3336-4.0**	●	●	●
5.00	7.00	6.00	40	**DHP3336-5.0**	●	●	●
6.00	8.00	6.00	40	**DHP3336-6.0**	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

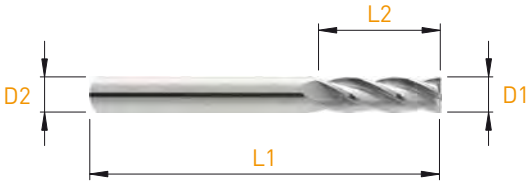


MD VHM HM | λ 30° | Sharp Corner | Z=4

D1 e9	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
3.00	3.00	3.00	39	**3430-3.0**	●	●	●
4.00	4.00	4.00	50	**3430-4.0**	●	●	●
5.00	5.00	5.00	50	**3430-5.0**	●	●	●
6.00	6.00	6.00	50	**3430-6.0**	●	●	●

Fraises en bout de finition
Schlicht Schaftfräser
Finishing end mills

3431



MD
VHM
HM

λ 30°

Sharp Corner

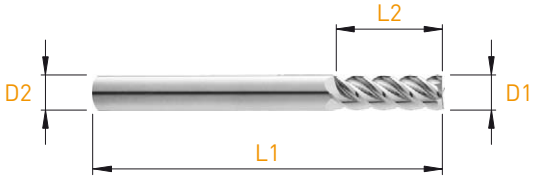
Z=4

D1 e9	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
2.00	8.00	2.00	32	**3431-2.0**	●	●	●
2.50	8.00	2.50	32	**3431-2.5**	●	●	●
3.00	12.00	3.00	32	**3431-3.0**	●	●	●
3.50	12.00	3.50	32	**3431-3.5**	●	●	●
4.00	12.00	4.00	40	**3431-4.0**	●	●	●
4.50	14.00	4.50	50	**3431-4.5**	●	●	●
5.00	14.00	5.00	50	**3431-5.0**	●	●	●
6.00	16.00	6.00	50	**3431-6.0**	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3441

Fraises en bout de finition
Schlicht Schaftfräser
Finishing end mills



MD
VHM
HM

λ 45°

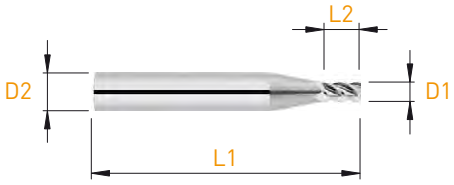
Sharp Corner

Z=4

D1 e9	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
2.00	8.00	2.00	32	**3441-2.0**	●	●	●
2.50	8.00	2.50	32	**3441-2.5**	●	●	●
3.00	12.00	3.00	32	**3441-3.0**	●	●	●
3.50	12.00	3.50	32	**3441-3.5**	●	●	●
4.00	12.00	4.00	40	**3441-4.0**	●	●	●
4.50	14.00	4.50	50	**3441-4.5**	●	●	●
5.00	14.00	5.00	50	**3441-5.0**	●	●	●
6.00	16.00	6.00	50	**3441-6.0**	●	●	●

Fraises en bout de finition
Schlicht Schaftfräser
Finishing end mills

3445-S



MD
VHM
HM

λ 45°

Sharp Corner

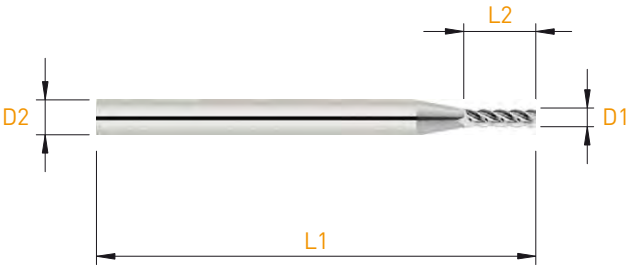
Z=4

D1 h10	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
0.50	1.00	6.00	40	**3445-S-0.5**	●	●	●
0.60	1.20	6.00	40	**3445-S-0.6**	●	●	●
0.70	1.40	6.00	40	**3445-S-0.7**	●	●	●
0.80	1.60	6.00	40	**3445-S-0.8**	●	●	●
0.90	1.80	6.00	40	**3445-S-0.9**	●	●	●
1.00	2.00	6.00	40	**3445-S-1.0**	●	●	●
1.10	2.20	6.00	40	**3445-S-1.1**	●	●	●
1.20	2.40	6.00	40	**3445-S-1.2**	●	●	●
1.30	2.60	6.00	40	**3445-S-1.3**	●	●	●
1.40	2.80	6.00	40	**3445-S-1.4**	●	●	●
1.50	3.00	6.00	40	**3445-S-1.5**	●	●	●
1.60	3.20	6.00	40	**3445-S-1.6**	●	●	●
1.70	3.40	6.00	40	**3445-S-1.7**	●	●	●
1.80	3.60	6.00	40	**3445-S-1.8**	●	●	●
1.90	3.80	6.00	40	**3445-S-1.9**	●	●	●
2.00	4.00	6.00	40	**3445-S-2.0**	●	●	●
2.10	4.20	6.00	40	**3445-S-2.1**	●	●	●
2.20	4.40	6.00	40	**3445-S-2.2**	●	●	●
2.30	4.60	6.00	40	**3445-S-2.3**	●	●	●
2.40	4.80	6.00	40	**3445-S-2.4**	●	●	●
2.50	5.00	6.00	40	**3445-S-2.5**	●	●	●
2.60	5.20	6.00	40	**3445-S-2.6**	●	●	●
2.70	5.40	6.00	40	**3445-S-2.7**	●	●	●
2.80	5.60	6.00	40	**3445-S-2.8**	●	●	●
2.90	5.80	6.00	40	**3445-S-2.9**	●	●	●
3.00	6.00	6.00	40	**3445-S-3.0**	●	●	●
3.50	7.00	6.00	40	**3445-S-3.5**	●	●	●
4.00	8.00	6.00	40	**3445-S-4.0**	●	●	●
4.50	9.00	6.00	40	**3445-S-4.5**	●	●	●
5.00	10.00	6.00	40	**3445-S-5.0**	●	●	●
6.00	12.00	6.00	40	**3445-S-6.0**	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3450

Fraises en bout de finition
Schlicht Schaftfräser
Finishing end mills



MD
VHM
HM

λ 50°

Sharp Corner

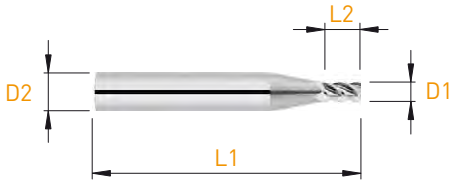
1.5xD1

Z=4

D1 h10	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
1.00	1.50	6.00	50	**3450-1.0**	●	●	●
1.50	2.25	6.00	50	**3450-1.5**	●	●	●
2.00	3.00	6.00	50	**3450-2.0**	●	●	●
2.50	3.75	6.00	50	**3450-2.5**	●	●	●
3.00	4.50	6.00	50	**3450-3.0**	●	●	●
3.50	5.25	6.00	50	**3450-3.5**	●	●	●
4.00	6.00	6.00	50	**3450-4.0**	●	●	●
5.00	7.50	6.00	50	**3450-5.0**	●	●	●
6.00	9.00	6.00	50	**3450-6.0**	●	●	●

Fraises en bout de finition
Schlicht Schaftfräser
Finishing end mills

DHP3436



MD
VHM
HM

λ 35° ↓ 38°

Sharp Corner

Z=4

DHP

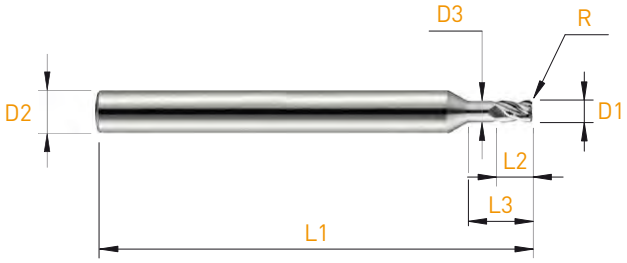
Denture à pas irrégulier, hélice progressive
Ungleiche Teilung, progressive Spirale
Uneven tooth pitch, progressive helix

D1 h10	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
1.00	4.00	6.00	40	**DHP3436-1.0**	●	●	●
1.50	4.00	6.00	40	**DHP3436-1.5**	●	●	●
2.00	4.00	6.00	40	**DHP3436-2.0**	●	●	●
2.50	4.00	6.00	40	**DHP3436-2.5**	●	●	●
3.00	5.00	6.00	40	**DHP3436-3.0**	●	●	●
3.50	5.00	6.00	40	**DHP3436-3.5**	●	●	●
4.00	6.00	6.00	40	**DHP3436-4.0**	●	●	●
5.00	7.00	6.00	40	**DHP3436-5.0**	●	●	●
6.00	8.00	6.00	40	**DHP3436-6.0**	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3439T-2.5X

Fraises en bout toriques
Torische Schaftfräser
Toric end mills



MD
VHM
HM

λ 30°

Radius Corner

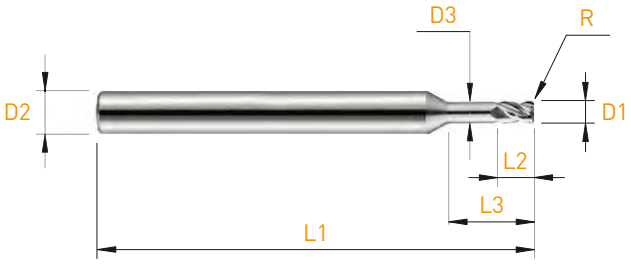
L3
2.5xD1

Z=4

D1 h10	R +/- 0.02	L2	L3	D3	D2 h5	L1	Art. N°	N	TiAlN	STF
3.00	0.50	3.00	7.50	2.95	6.00	57	**3439T-2.5X-3.0**	●	●	●
3.50	0.50	3.50	8.75	3.45	6.00	57	**3439T-2.5X-3.5**	●	●	●
4.00	0.50	4.00	10.00	3.95	6.00	57	**3439T-2.5X-4.0**	●	●	●
4.50	0.50	4.50	11.25	4.45	6.00	57	**3439T-2.5X-4.5**	●	●	●
5.00	0.50	5.00	12.50	4.95	6.00	57	**3439T-2.5X-5.0**	●	●	●
5.50	0.50	5.50	13.75	5.45	6.00	57	**3439T-2.5X-5.5**	●	●	●
6.00	0.50	6.00	15.00	5.95	6.00	57	**3439T-2.5X-6.0**	●	●	●

Fraises en bout toriques
Torische Schaftfräser
Toric end mills

3439T-4X



MD
VHM
HM

λ 30°

Radius Corner

L3
4xD1

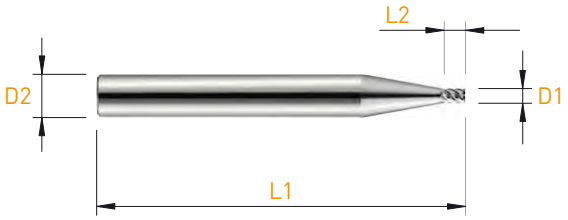
Z=4

D1 h10	R +/- 0.02	L2	L3	D3	D2 h5	L1	Art. N°	N	TiAlN	STF
3.00	0.50	3.00	12.00	2.95	6.00	57	**3439T-4X-3.0**	●	●	●
3.50	0.50	3.50	14.00	3.45	6.00	57	**3439T-4X-3.5**	●	●	●
4.00	0.50	4.00	16.00	3.95	6.00	57	**3439T-4X-4.0**	●	●	●
4.50	0.50	4.50	18.00	4.45	6.00	57	**3439T-4X-4.5**	●	●	●
5.00	0.50	5.00	20.00	4.95	6.00	57	**3439T-4X-5.0**	●	●	●
5.50	0.50	5.50	22.00	5.45	6.00	57	**3439T-4X-5.5**	●	●	●
6.00	0.50	6.00	24.00	5.95	6.00	57	**3439T-4X-6.0**	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3545

Fraises en bout de finition
Schlicht Schaftfräser
Finishing end mills

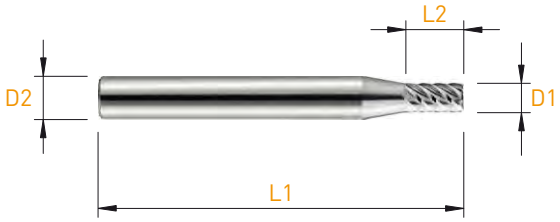


MD VHM HM | λ 45° | Sharp Corner | 1.5xD1 | Z=5

D1 h10	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
1.00	1.50	6.00	50	**3545-1.0**	●	●	●
2.00	3.00	6.00	50	**3545-2.0**	●	●	●
3.00	4.50	6.00	50	**3545-3.0**	●	●	●
4.00	6.00	6.00	50	**3545-4.0**	●	●	●
5.00	7.50	6.00	50	**3545-5.0**	●	●	●
6.00	9.00	6.00	50	**3545-6.0**	●	●	●

Fraises en bout de finition
Schlicht Schaftfräser
Finishing end mills

35645



MD
VHM
HM

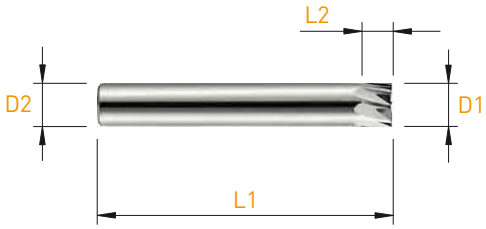
λ 45°

Sharp Corner

Z=4
Z=5
Z=6

D1 h10	L2	Z	D2 h5	L1	Art. N°	N	TiAlN	STF
1.00	2.00	4	6.00	50	**35645-1.0**	●	●	●
1.50	3.00	5	6.00	50	**35645-1.5**	●	●	●
2.00	4.00	5	6.00	50	**35645-2.0**	●	●	●
2.50	5.00	5	6.00	50	**35645-2.5**	●	●	●
3.00	6.00	5	6.00	50	**35645-3.0**	●	●	●
3.50	7.00	5	6.00	50	**35645-3.5**	●	●	●
4.00	8.00	6	6.00	50	**35645-4.0**	●	●	●
4.50	9.00	6	6.00	50	**35645-4.5**	●	●	●
5.00	10.00	6	6.00	50	**35645-5.0**	●	●	●
6.00	12.00	6	6.00	50	**35645-6.0**	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request



MD
VHM
HM

λ 10°

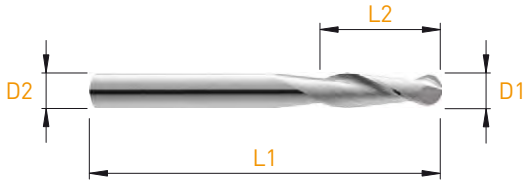
Sharp Corner

Z=8

D1 e9	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
6.00	4.00	6.00	50	**3810-0.65-6.0**	●	●	●
6.00	6.00	6.00	57	**3810-1.0-6.0**	●	●	●
6.00	9.00	6.00	57	**3810-1.5-6.0**	●	●	●

Fraises en bout hémisphériques
Vollradius Schaftfräser
Ball nose end mills

3238



MD
VHM
HM

λ 30°

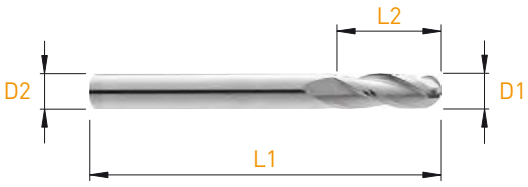
Z=2

D1 e9	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
2.00	8.00	2.00	32	**3238-2.0**	●	●	●
2.50	8.00	2.50	32	**3238-2.5**	●	●	●
3.00	12.00	3.00	32	**3238-3.0**	●	●	●
3.50	12.00	3.50	32	**3238-3.5**	●	●	●
4.00	12.00	4.00	40	**3238-4.0**	●	●	●
4.50	14.00	4.50	50	**3238-4.5**	●	●	●
5.00	14.00	5.00	50	**3238-5.0**	●	●	●
6.00	16.00	6.00	50	**3238-6.0**	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3338

Fraises en bout hémisphériques
Vollradius Schaftfräser
Ball nose end mills



MD
VHM
HM

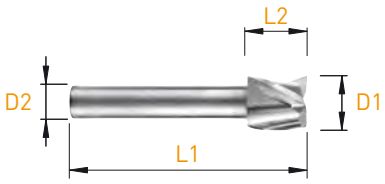
λ 30°

Z=3

D1 e9	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
2.00	8.00	2.00	32	**3338-2.0**	●	●	●
2.50	8.00	2.50	32	**3338-2.5**	●	●	●
3.00	12.00	3.00	32	**3338-3.0**	●	●	●
3.50	12.00	3.50	32	**3338-3.5**	●	●	●
4.00	12.00	4.00	40	**3338-4.0**	●	●	●
4.50	14.00	4.50	50	**3338-4.5**	●	●	●
5.00	14.00	5.00	50	**3338-5.0**	●	●	●
6.00	16.00	6.00	50	**3338-6.0**	●	●	●

Fraises en bout pour usinage en bout plat
Schaftfräser für flache Frontbearbeitung
End mills for flat front machining

3383



MD
VHM
HM

λ 30°

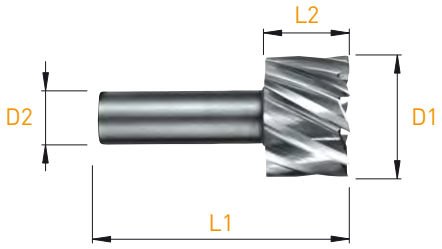
Sharp Corner

Z=3

D1 h10	L2	D2 h6	L1	Art. N°	z
8.00	8.00	6.00	40	**3383-8.0**	●
10.00	10.00	6.00	40	**3383-10.0**	●
12.00	12.00	6.00	40	**3383-12.0**	●

3831 / 3833

Fraises en bout avec queue réduite
Schaftfräser mit reduziertem Schaft
End mills with reduced shank



MD
VHM
HM

λ 30°

Sharp Corner

Z=10

D1 h10	L2	D2 h6	L1	Art. N°	z
16.30	15.00	10.00	45	**3831**	●
20.30	15.00	10.00	45	**3833**	●

Fraises à angler
Kegelsenker
Chamfering tools

3611

MD VHM HM	λ 0°		Z=3	60°

D1 +0.005 / -0.010	L2	D2 h4	L1	d	Art. N°	N	TiAlN	STF
0.50	3.00	3.00	39	0.10	**3611-0.5**	●	●	●
0.60	3.00	3.00	39	0.10	**3611-0.6**	●	●	●
0.70	3.00	3.00	39	0.10	**3611-0.7**	●	●	●
0.80	3.00	3.00	39	0.10	**3611-0.8**	●	●	●
0.90	3.00	3.00	39	0.10	**3611-0.9**	●	●	●
1.00	3.00	3.00	39	0.10	**3611-1.0**	●	●	●
1.50	4.50	3.00	39	0.10	**3611-1.5**	●	●	●
2.00	6.00	3.00	39	0.10	**3611-2.0**	●	●	●
2.50	7.50	3.00	39	0.10	**3611-2.5**	●	●	●
3.00	-	3.00	39	0.10	**3611-3.0**	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

3911

Fraises à angler
Kegelsenker
Chamfering tools

MD
VHM
HM

λ 0°

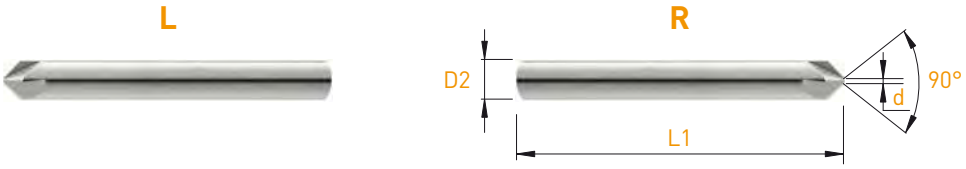
Z=3

90°

D1 +0.010 / -0.010	L2	D2 h4	L1	d	Art. N°	N	TiAlN	STF
0.30	2.00	3.00	39	0.05	**3911-0.30**	●	●	●
0.40	2.00	3.00	39	0.05	**3911-0.40**	●	●	●
0.50	3.00	3.00	39	0.10	**3911-0.50**	●	●	●
0.60	3.00	3.00	39	0.10	**3911-0.60**	●	●	●
0.70	3.00	3.00	39	0.10	**3911-0.70**	●	●	●
0.80	3.00	3.00	39	0.10	**3911-0.80**	●	●	●
0.90	3.00	3.00	39	0.10	**3911-0.90**	●	●	●
1.00	3.00	3.00	39	0.10	**3911-1.00**	●	●	●
1.10	3.00	3.00	39	0.10	**3911-1.10**	●	●	●
1.20	3.00	3.00	39	0.10	**3911-1.20**	●	●	●
1.30	3.00	3.00	39	0.10	**3911-1.30**	●	●	●
1.40	3.00	3.00	39	0.10	**3911-1.40**	●	●	●
1.50	4.50	3.00	39	0.10	**3911-1.50**	●	●	●
2.00	6.00	3.00	39	0.10	**3911-2.00**	●	●	●
2.50	7.50	3.00	39	0.10	**3911-2.50**	●	●	●
3.00	-	3.00	39	0.10	**3911-3.00**	●	●	●

Fraises à angler
Kegelsenker
Chamfering tools

1901 / 3901



MD VHM HM	λ 0°		Z=4	90°	L		R			
D2 Ø3 h4 Ø6 h5 Ø8 h6	d	L1	Art. N°	N	Art. N°	N	TiAlN	STF
3.00	0.30	39	**1901-3.0**	●	**3901-3.0**	●	●	●
6.00	0.70	50	**1901-6.0**	●	**3901-6.0**	●	●	●
8.00	1.20	59	**1901-8.0**	●	**3901-8.0**	●	●	●

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

> 16.98

Z	λ	D1	D2	Type	Corner	page
			Ø6 h4	**701SE330-P**		> 16.99
			Ø6 h4	**701SE330-R**		> 16.100
Z=1	0°	Ø0.50 -3.00	Ø6 h4	**701S3170R-2**		> 16.101
Z=2	0°	Ø0.30 -3.00	Ø6 h4	**701S3279T-3X**		> 16.102
Z=3		Ø0.30 - 3.50	Ø6 h5	**701S3371-1**		> 16.103
		Ø0.30 - 3.00	Ø6 h5	**701S3371-2**		> 16.104
		Ø0.30 - 2.50	Ø6 h5	**701S3371-3**		> 16.105
Z=3	30°	Ø1.00 -2.00	Ø6 h4	**701S3379T-3X**		> 16.106
Z=3	0°	Ø0.40 -2.00	Ø6 h4	**701S3911**		> 16.107

Fraises pour machine WM 701S
Werkzeuge für Maschine WM 701S
Executions for machine WM 701S

Tous les outils de la gamme MICRO-Line sont réalisables pour la machine WM 701S sur demande.

Alle Werkzeuge aus der MICRO-Line sind machbar für die Maschine WM 701S auf Anfrage.

All tools of MICRO-Line can be produced for the machine WM 701S on request.

Fraises pour machine WM 701S
Werkzeuge für Maschine WM 701S
Executions for machine WM 701S

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

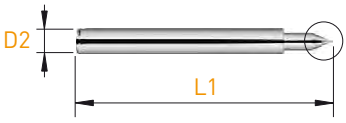
Matière Werkstoff Material		VC (m/min)	N	TiAlN	STF	DLC
Acier de décolletage Automatenstahl Free-cutting steel	P	120 - 180	-	★★★	★★★	-
Acier Stahl Steel < 600 N/mm²	P	100 - 150	-	★★★	★★★	-
Acier Stahl Steel < 800 N/mm²	P	100 - 130	-	★★★	★★★	-
Acier Stahl Steel > 800 N/mm²	P	80 - 100	-	★★★	★★★	-
Acier trempé Gehärteter Stahl -55HRC Hardened steel	H	-	-	★★★	★★★	-
Acier trempé Gehärteter Stahl +55HRC Hardened steel	H	-	-	★★★	★★★	-
Inox Rostfreistahl Stainless steel	M	60 - 90	-	★★★	★★★	-
Aluminium	N	250 - 400	★★	★★★	★★★	★★★
Cuivre, laiton, bronze Kupfer, Messing, Bronze Copper, brass, bronze	N	150 - 200	★★★	★★	★★	★★★
Matière synthétique Synthetisches Material Synthetic material	N	100 - 150	★★★	★★	★★	★★★
Métaux précieux Edelmetalle Precious metals	N	140 - 200	★★★	★★	★★	★★★
Titane Titan Titanium	S	40 - 70	-	★★★	★★★	-
Alliage de nickel Nickel-Legierung Nickel alloy	S	30 - 60	-	★★★	★★★	-
Matière exotique Exotisches material Exotic material	O	30 - 60	-	★★★	★★★	★★★

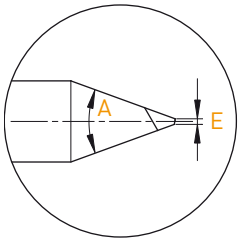
Avec revêtement, augmenter les valeurs de 20-30%
Mit Beschichtung, Daten um 20-30% erhöhen
With coating, increase data by 20-30%

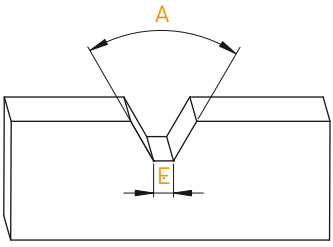
★ Bien / Gut / Good
★★ Très bien / Sehr gut / Very good
★★★ Excellent / Ausgezeichnet / Excellent

Fraises à graver avec plat - WM 701S
Gravierfräser mit Fläche - WM 701S
Engraving mills with flat - WM 701S

701SE330-P







MD
VHM
HM

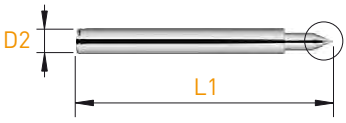
A	E	D2 h4	L1	Art. N°	N	TiAlN	STF	DLC
30°	0.02-0.10* / 0.10-0.30**	6.00	33	**701SE330-P-_(E)**	●	●	●	●
35°	0.02-0.10* / 0.10-0.30**	6.00	33	**701SE335-P-_(E)**	●	●	●	●
40°	0.02-0.10* / 0.10-0.30**	6.00	33	**701SE340-P-_(E)**	●	●	●	●
50°	0.02-0.10* / 0.10-0.30**	6.00	33	**701SE350-P-_(E)**	●	●	●	●
60°	0.02-0.10* / 0.10-0.30**	6.00	33	**701SE360-P-_(E)**	●	●	●	●

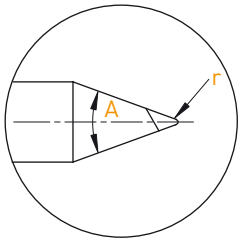
* tous les 0.01 mm
alle 0.01 mm
every 0.01 mm

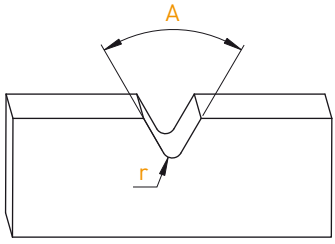
** tous les 0.05 mm
alle 0.05 mm
every 0.05 mm

701SE330-R

Fraises à graver à rayon - WM 701S
Gravierfräser mit Radius - WM 701S
Engraving mills with radius - WM 701S







MD
VHM
HM

A	r	D2 h4	L1	Art. N°	N	TiAlN	STF	DLC
30°	0.04-0.10* / 0.10-0.30**	6.00	33	**701SE330-R-_(r)**	●	●	●	●
35°	0.04-0.10* / 0.10-0.30**	6.00	33	**701SE335-R-_(r)**	●	●	●	●
40°	0.04-0.10* / 0.10-0.30**	6.00	33	**701SE340-R-_(r)**	●	●	●	●
50°	0.04-0.10* / 0.10-0.30**	6.00	33	**701SE350-R-_(r)**	●	●	●	●
60°	0.04-0.10* / 0.10-0.30**	6.00	33	**701SE360-R-_(r)**	●	●	●	●

* tous les 0.01 mm
alle 0.01 mm
every 0.01 mm

** tous les 0.05 mm
alle 0.05 mm
every 0.05 mm

Fraises en bout - WM 701S
Schaftfräser - WM 701S
End mills - WM 701S

701S3170R-2

MD
VHM
HM

λ 0°

Sharp Corner

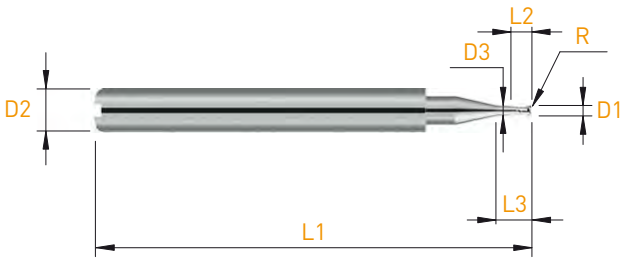
2xD1

Z=1

D1 +0.005 / -0.010	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	DLC
0.50	1.00	6.00	33	**701S3170R-2-0.50**	●	●	●	●
1.00	2.00	6.00	33	**701S3170R-2-1.00**	●	●	●	●
1.50	3.00	6.00	33	**701S3170R-2-1.50**	●	●	●	●
2.00	4.00	6.00	33	**701S3170R-2-2.00**	●	●	●	●
2.50	5.00	6.00	33	**701S3170R-2-2.50**	●	●	●	●
3.00	6.00	6.00	33	**701S3170R-2-3.00**	●	●	●	●

701S3279T-3X

Fraises en bout toriques - WM 701S
Torische Schaftfräser - WM 701S
Toric end mills - WM 701S



MD
VHM
HM

Radius Corner

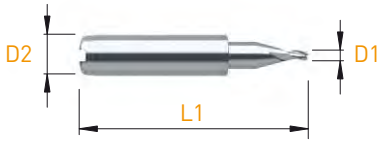
L3
3xD1

Z=2

D1 +0.005 / -0.010	R +/- 0.02	L2	L3	D3	D2 h4	L1	Art. N°	N	TiAlN	STF	DLC
0.30	0.05	0.30	0.90	0.27	6.00	33	**701S3279T-3X-0.30**	●	●	●	●
0.40	0.05	0.40	1.20	0.45	6.00	33	**701S3279T-3X-0.40**	●	●	●	●
0.50	0.05	0.50	1.50	0.45	6.00	33	**701S3279T-3X-0.50**	●	●	●	●
0.60	0.05	0.60	1.80	0.55	6.00	33	**701S3279T-3X-0.60**	●	●	●	●
0.80	0.05	0.80	2.40	0.75	6.00	33	**701S3279T-3X-0.80**	●	●	●	●
1.00	0.10	1.00	3.00	0.95	6.00	33	**701S3279T-3X-1.00**	●	●	●	●
1.20	0.10	1.20	3.60	1.15	6.00	33	**701S3279T-3X-1.20**	●	●	●	●
1.50	0.20	1.50	4.50	1.45	6.00	33	**701S3279T-3X-1.50**	●	●	●	●
1.80	0.20	1.80	5.40	1.75	6.00	33	**701S3279T-3X-1.80**	●	●	●	●
2.00	0.20	2.00	6.00	1.95	6.00	33	**701S3279T-3X-2.00**	●	●	●	●
2.50	0.20	2.50	7.50	2.45	6.00	33	**701S3279T-3X-2.50**	●	●	●	●
3.00	0.20	3.00	9.00	2.95	6.00	33	**701S3279T-3X-3.00**	●	●	●	●

Fraises en bout - WM 701S
Schaftfräser - WM 701S
End mills - WM 701S

701S3371-1



MD
VHM
HM

λ 36° ↓ 38°

Sharp Corner

1xD1

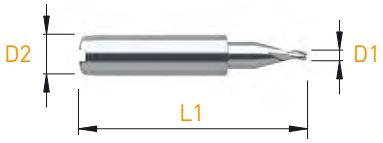
Z=3

D1 +0.005 / -0.010	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.30	0.30	6.00	33	**701S3371-1-0.30**	●	●	●	●	●
0.40	0.40	6.00	33	**701S3371-1-0.40**	●	●	●	●	●
0.50	0.50	6.00	33	**701S3371-1-0.50**	●	●	●	●	●
0.60	0.60	6.00	33	**701S3371-1-0.60**	●	●	●	●	●
0.80	0.80	6.00	33	**701S3371-1-0.80**	●	●	●	●	●
1.00	1.00	6.00	33	**701S3371-1-1.00**	●	●	●	●	●
1.20	1.20	6.00	33	**701S3371-1-1.20**	●	●	●	●	●
1.50	1.50	6.00	33	**701S3371-1-1.50**	●	●	●	●	●
1.80	1.80	6.00	33	**701S3371-1-1.80**	●	●	●	●	●
2.00	2.00	6.00	33	**701S3371-1-2.00**	●	●	●	●	●
2.50	2.50	6.00	33	**701S3371-1-2.50**	●	●	●	●	●
3.00	3.00	6.00	33	**701S3371-1-3.00**	●	●	●	●	●
3.20	3.20	6.00	33	**701S3371-1-3.20**	●	●	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

701S3371-2

Fraises en bout - WM 701S
Schaftfräser - WM 701S
End mills - WM 701S



MD
VHM
HM

λ 36° ↓ 38°

Sharp Corner

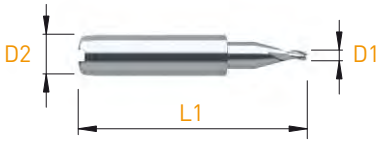
2xD1

Z=3

D1 +0.005 / -0.010	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.30	0.60	6.00	33	**701S3371-2-0.30**	●	●	●	●	●
0.40	0.80	6.00	33	**701S3371-2-0.40**	●	●	●	●	●
0.50	1.00	6.00	33	**701S3371-2-0.50**	●	●	●	●	●
0.60	1.20	6.00	33	**701S3371-2-0.60**	●	●	●	●	●
0.80	1.60	6.00	33	**701S3371-2-0.80**	●	●	●	●	●
1.00	2.00	6.00	33	**701S3371-2-1.00**	●	●	●	●	●
1.20	2.40	6.00	33	**701S3371-2-1.20**	●	●	●	●	●
1.50	3.00	6.00	33	**701S3371-2-1.50**	●	●	●	●	●
1.80	3.60	6.00	33	**701S3371-2-1.80**	●	●	●	●	●
2.00	4.00	6.00	33	**701S3371-2-2.00**	●	●	●	●	●
2.50	5.00	6.00	33	**701S3371-2-2.50**	●	●	●	●	●
3.00	6.00	6.00	33	**701S3371-2-3.00**	●	●	●	●	●

Fraises en bout - WM 701S
Schaftfräser - WM 701S
End mills - WM 701S

701S3371-3



MD
VHM
HM

λ 36° ↓ 38°

Sharp Corner

3xD1

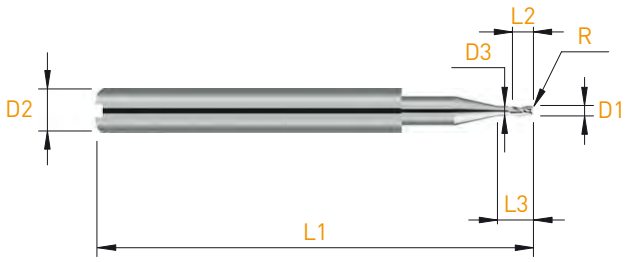
Z=3

D1 +0.005 / -0.010	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
0.30	0.90	6.00	33	**701S3371-3-0.30**	●	●	●	●	●
0.40	1.20	6.00	33	**701S3371-3-0.40**	●	●	●	●	●
0.50	1.50	6.00	33	**701S3371-3-0.50**	●	●	●	●	●
0.60	1.80	6.00	33	**701S3371-3-0.60**	●	●	●	●	●
0.80	2.40	6.00	33	**701S3371-3-0.80**	●	●	●	●	●
1.00	3.00	6.00	33	**701S3371-3-1.00**	●	●	●	●	●
1.20	3.60	6.00	33	**701S3371-3-1.20**	●	●	●	●	●
1.50	4.50	6.00	33	**701S3371-3-1.50**	●	●	●	●	●
1.80	5.40	6.00	33	**701S3371-3-1.80**	●	●	●	●	●
2.00	6.00	6.00	33	**701S3371-3-2.00**	●	●	●	●	●
2.50	7.50	6.00	33	**701S3371-3-2.50**	●	●	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

701S3379T-3X

Fraises en bout toriques - WM 701S
Torische Schaftfräser - WM 701S
Toric end mills - WM 701S

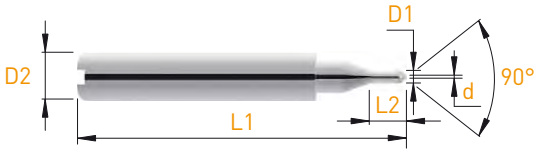


MD VHM HM | λ 30° | Radius Corner | L3 3xD1 | Z=3

D1 +0.005 / -0.010	R +/- 0.02	L2	L3	D3	D2 h4	L1	Art. N°	N	TiAlN	STF	DLC
1.00	0.10	2.00	3.00	0.95	6.00	33	**701S3379T-3X-1.00**	●	●	●	●
1.50	0.20	3.00	4.50	1.45	6.00	33	**701S3379T-3X-1.50**	●	●	●	●
2.00	0.20	4.00	6.00	1.95	6.00	33	**701S3379T-3X-2.00**	●	●	●	●

Fraises à angler - WM 701S
Kegelsenker - WM 701S
Chamfering tools - WM 701S

701S3911



MD
VHM
HM

λ 0°

Z=3

90°

D1 +0.010 / -0.010	L2	D2 h4	L1	d +/- 0.02	Art. N°	N	TiAlN	STF	DLC
0.40	2.00	6.00	33	0.05	**701S3911-0.40**	●	●	●	●
0.50	2.50	6.00	33	0.05	**701S3911-0.50**	●	●	●	●
0.60	2.50	6.00	33	0.05	**701S3911-0.60**	●	●	●	●
1.00	3.00	6.00	33	0.05	**701S3911-1.00**	●	●	●	●
1.50	4.50	6.00	33	0.05	**701S3911-1.50**	●	●	●	●
2.00	4.50	6.00	33	0.05	**701S3911-2.00**	●	●	●	●

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

> 16.109

A	Plat [E] / Rayon [r] Fläche [E] / Radius [r] Flat [E] / Radius [r]	D2	**Type**	Page
20° / 30° / 35° / 40° 45° / 50° / 55° / 60° 65° / 70° / 90° / 120°	0.05-0.30 0.05-0.10 / every 0.01 0.10-0.30 / every 0.05	Ø3 h4 Ø6 h5	**E100-P**	> 16.110
20° / 30° / 35° / 40° 45° / 50° / 55° / 60° 65° / 70° / 90°	0.02-0.30 0.02-0.10 / every 0.01 0.10-0.30 / every 0.05	Ø3 h4	**E300-P**	> 16.111
20° / 30° / 35° / 40° 45° / 50° / 55° / 60° 65° / 70° / 90°	0.04-0.30 0.04-0.10 / every 0.01 0.10-0.30 / every 0.05	Ø3 h4	**E300-R**	> 16.112
20° / 30° / 35° / 40° 45° / 50° / 55° / 60° 65° / 70° / 90°	0.04-0.30 0.04-0.10 / every 0.01 0.10-0.30 / every 0.05	Ø3 h4	**E900-P**	> 16.113
20° / 30° / 35° / 40° 45° / 50° / 55° / 60° 65° / 70° / 90°	0.04-0.30 0.04-0.10 / every 0.01 0.10-0.30 / every 0.05	Ø3 h4	**E900-R**	> 16.114

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

Fraises à graver
Gravierfräser
Engraving mills

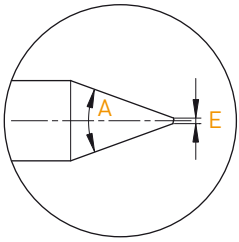
Matière Werkstoff Material	n (tr/min)	Vf (mm/min)	N	TiAlN	STF	TiCN	DLC
Acier de décolletage Automatenstahl Free-cutting steel (P)	20 - 50'000	100 - 180	-	★★★	★★★	★★	-
Acier Stahl < 600 N/mm² Steel (P)	20 - 50'000	100 - 180	-	★★★	★★★	★★	-
Acier Stahl < 800 N/mm² Steel (P)	20 - 50'000	100 - 180	-	★★★	★★★	★★	-
Acier Stahl > 800 N/mm² Steel (P)	20 - 50'000	100 - 150	-	★★★	★★★	★★	-
Acier trempé Gehärteter Stahl -55HRC Hardened steel (H)	20 - 50'000	-	-	★★★	★★★	★	-
Acier trempé Gehärteter Stahl +55HRC Hardened steel (H)	20 - 50'00	-	-	★★★	★★★	★	-
Inox Rostfreistahl Stainless steel (M)	20 - 50'000	100 - 170	-	★★★	★★★	★★	-
Aluminium (N)	20 - 50'000	100 - 250	★★★	★★	★★	★	★★★
Cuivre, laiton, bronze Kupfer, Messing, Bronze Copper, brass, bronze (N)	20 - 50'000	70 - 150	★★★	★★	★★	★★	★★★
Matière synthétique Synthetisches Material Synthetic material (N)	20 - 50'000	100 - 200	★★★	★★	★★	★★	★★★
Métaux précieux Edelmetalle Precious metals (N)	20 - 50'000	100 - 200	★★★	★★	★★	★★	★★★
Titane Titan Titanium (S)	20 - 50'000	70 - 150	-	★★★	★★★	★★	-
Alliage de nickel Nickel-Legierung Nickel alloy (S)	20 - 50'000	80 - 180	-	★★★	★★★	★★	-
Matière exotique Exotisches material Exotic material (O)	20 - 50'000	80 - 180	★	★★★	★★★	★★	★★★

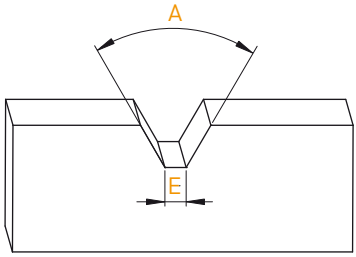
Avec revêtement, augmenter les valeurs de 20-30%
Mit Beschichtung, Daten um 20-30% erhöhen
With coating, increase data by 20-30%

★ Bien / Gut / Good
★★ Très bien / Sehr gut / Very good
★★★ Excellent / Ausgezeichnet / Excellent

E100-P

Fraises à graver avec plat
Gravierfräser mit Fläche
Engraving mills with flat





MD
VHM
HM

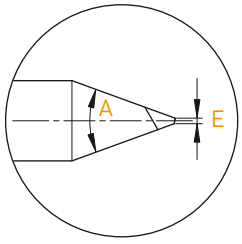
A	E	L2	D2 h4 Ø3.0 h5 Ø6.0	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
20°	0.05-0.10* / 0.10-0.30 **	5.20	3.00	33	**E120-P-_(E)**	●	●	●	●	●
30°	0.05-0.10* / 0.10-0.30 **	5.20	3.00	33	**E130-P-_(E)**	●	●	●	●	●
35°	0.05-0.10* / 0.10-0.30 **	5.20	3.00	33	**E135P-_(E)**	●	●	●	●	●
40°	0.05-0.10* / 0.10-0.30 **	6.00	3.00	33	**E140-P-_(E)**	●	●	●	●	●
45°	0.05-0.10* / 0.10-0.30 **	6.00	3.00	33	**E145-P-_(E)**	●	●	●	●	●
50°	0.05-0.10* / 0.10-0.30 **	6.00	3.00	33	**E150-P-_(E)**	●	●	●	●	●
55°	0.05-0.10* / 0.10-0.30 **	6.00	3.00	33	**E155-P-_(E)**	●	●	●	●	●
60°	0.05-0.10* / 0.10-0.30 **	8.00	3.00	33	**E160-P-_(E)**	●	●	●	●	●
65°	0.05-0.10* / 0.10-0.30 **	8.00	3.00	33	**E165-P-_(E)**	●	●	●	●	●
70°	0.05-0.10* / 0.10-0.30 **	8.00	3.00	33	**E170-P-_(E)**	●	●	●	●	●
90°	0.05-0.10* / 0.10-0.30 **	8.00	3.00	33	**E190-P-_(E)**	●	●	●	●	●
120°	0.05-0.10* / 0.10-0.30 **	8.00	3.00	33	**E1120-P-_(E)**	●	●	●	●	●
30°	0.05-0.10* / 0.10-0.30 **	12.00	6.00	40	**E130-6-P-_(E)**	●	●	●	●	●
40°	0.05-0.10* / 0.10-0.30 **	12.00	6.00	40	**E140-6-P-_(E)**	●	●	●	●	●

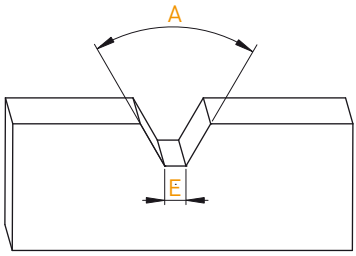
* tous les 0.01 mm
alle 0.01 mm
every 0.01 mm

** tous les 0.05 mm
alle 0.05 mm
every 0.05 mm

Fraises à graver avec plat
Gravierfräser mit Fläche
Engraving mills with flat

E300-P





MD
VHM
HM

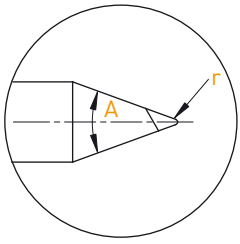
A	E	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
20°	0.02-0.10* / 0.10-0.30**	3.00	33	**E320-P-_(E)**	●	●	●	●	●
30°	0.02-0.10* / 0.10-0.30**	3.00	33	**E330-P-_(E)**	●	●	●	●	●
35°	0.02-0.10* / 0.10-0.30**	3.00	33	**E335-P-_(E)**	●	●	●	●	●
40°	0.02-0.10* / 0.10-0.30**	3.00	33	**E340-P-_(E)**	●	●	●	●	●
45°	0.02-0.10* / 0.10-0.30**	3.00	33	**E345-P-_(E)**	●	●	●	●	●
50°	0.02-0.10* / 0.10-0.30**	3.00	33	**E350-P-_(E)**	●	●	●	●	●
55°	0.02-0.10* / 0.10-0.30**	3.00	33	**E355-P-_(E)**	●	●	●	●	●
60°	0.02-0.10* / 0.10-0.30**	3.00	33	**E360-P-_(E)**	●	●	●	●	●
65°	0.02-0.10* / 0.10-0.30**	3.00	33	**E365-P-_(E)**	●	●	●	●	●
70°	0.02-0.10* / 0.10-0.30**	3.00	33	**E370-P-_(E)**	●	●	●	●	●
90°	0.02-0.10* / 0.10-0.30**	3.00	33	**E390-P-_(E)**	●	●	●	●	●

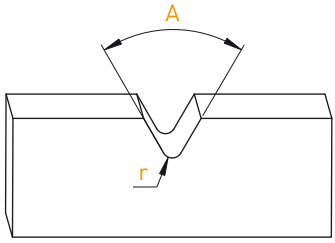
* tous les 0.01 mm
alle 0.01 mm
every 0.01 mm

** tous les 0.05 mm
alle 0.05 mm
every 0.05 mm

E300-R

Fraises à graver à rayon
Gravierfräser mit Radius
Engraving mills with radius





MD
VHM
HM

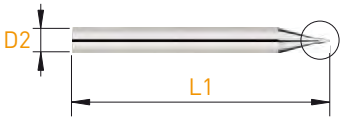
A	r	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
20°	0.04-0.10* / 0.10-0.30**	3.00	33	**E320-R-_(r)**	●	●	●	●	●
30°	0.04-0.10* / 0.10-0.30**	3.00	33	**E330-R-_(r)**	●	●	●	●	●
35°	0.04-0.10* / 0.10-0.30**	3.00	33	**E335-R-_(r)**	●	●	●	●	●
40°	0.04-0.10* / 0.10-0.30**	3.00	33	**E340-R-_(r)**	●	●	●	●	●
45°	0.04-0.10* / 0.10-0.30**	3.00	33	**E345-R-_(r)**	●	●	●	●	●
50°	0.04-0.10* / 0.10-0.30**	3.00	33	**E350-R-_(r)**	●	●	●	●	●
55°	0.04-0.10* / 0.10-0.30**	3.00	33	**E355-R-_(r)**	●	●	●	●	●
60°	0.04-0.10* / 0.10-0.30**	3.00	33	**E360-R-_(r)**	●	●	●	●	●
65°	0.04-0.10* / 0.10-0.30**	3.00	33	**E365-R-_(r)**	●	●	●	●	●
70°	0.04-0.10* / 0.10-0.30**	3.00	33	**E370-R-_(r)**	●	●	●	●	●
90°	0.04-0.10* / 0.10-0.30**	3.00	33	**E390-R-_(r)**	●	●	●	●	●

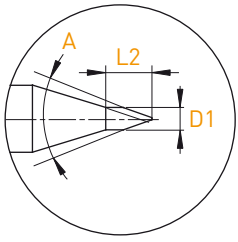
* tous les 0.01 mm
alle 0.01 mm
every 0.01 mm

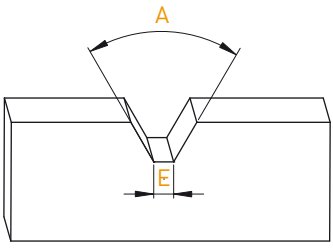
** tous les 0.05 mm
alle 0.05 mm
every 0.05 mm

Fraises à graver renforcées
Verstärkte Gravierfräser
Reinforced engraving mills

E900-P







MD
VHM
HM

A	E	D1	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
20°	0.04-0.10* / 0.10-0.30**	0.60	1.80	3.00	33	**E920-P-_(E)**	●	●	●	●	●
30°	0.04-0.10* / 0.10-0.30**	0.60	1.80	3.00	33	**E930-P-_(E)**	●	●	●	●	●
35°	0.04-0.10* / 0.10-0.30**	0.60	1.80	3.00	33	**E935-P-_(E)**	●	●	●	●	●
40°	0.04-0.10* / 0.10-0.30**	0.60	1.80	3.00	33	**E940-P-_(E)**	●	●	●	●	●
45°	0.04-0.10* / 0.10-0.30**	1.00	1.80	3.00	33	**E945-P-_(E)**	●	●	●	●	●
50°	0.04-0.10* / 0.10-0.30**	1.00	2.00	3.00	33	**E950-P-_(E)**	●	●	●	●	●
55°	0.04-0.10* / 0.10-0.30**	1.00	2.00	3.00	33	**E955-P-_(E)**	●	●	●	●	●
60°	0.04-0.10* / 0.10-0.30**	1.20	2.00	3.00	33	**E960-P-_(E)**	●	●	●	●	●
65°	0.04-0.10* / 0.10-0.30**	1.20	2.00	3.00	33	**E965-P-_(E)**	●	●	●	●	●
70°	0.04-0.10* / 0.10-0.30**	1.20	2.00	3.00	33	**E970-P-_(E)**	●	●	●	●	●
90°	0.04-0.10* / 0.10-0.30**	1.20	2.00	3.00	33	**E990-P-_(E)**	●	●	●	●	●

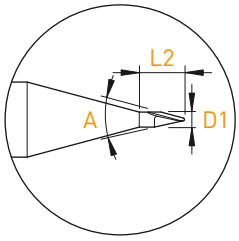
* tous les 0.01 mm
alle 0.01 mm
every 0.01 mm

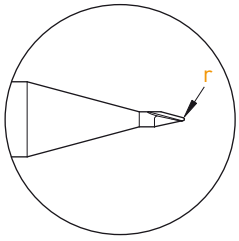
** tous les 0.05 mm
alle 0.05 mm
every 0.05 mm

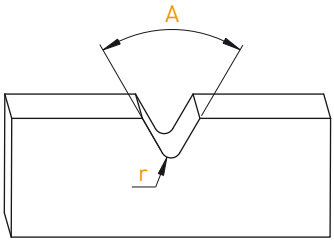
Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

E900-R

Fraises à graver renforcées à rayon
Verstärkte Gravierfräser mit Radius
Reinforced engraving mills with radius







MD
VHM
HM

A	r	D1	L2	D2 h4	L1	Art. N°	N	TiAlN	STF	TiCN	DLC
20°	0.04-0.10* / 0.10-0.20**	0.60	1.80	3.00	33	**E920-R-_(E)**	●	●	●	●	●
30°	0.04-0.10* / 0.10-0.20**	0.60	1.80	3.00	33	**E930-R-_(E)**	●	●	●	●	●
35°	0.04-0.10* / 0.10-0.20**	0.60	1.80	3.00	33	**E935-R-_(E)**	●	●	●	●	●
40°	0.04-0.10* / 0.10-0.20**	0.60	1.80	3.00	33	**E940-R-_(E)**	●	●	●	●	●
45°	0.04-0.10* / 0.10-0.30**	1.00	1.80	3.00	33	**E945-R-_(E)**	●	●	●	●	●
50°	0.04-0.10* / 0.10-0.30**	1.00	2.00	3.00	33	**E950-R-_(E)**	●	●	●	●	●
55°	0.04-0.10* / 0.10-0.30**	1.00	2.00	3.00	33	**E955-R-_(E)**	●	●	●	●	●
60°	0.04-0.10* / 0.10-0.30**	1.20	2.00	3.00	33	**E960-R-_(E)**	●	●	●	●	●
65°	0.04-0.10* / 0.10-0.30**	1.20	2.00	3.00	33	**E965-R-_(E)**	●	●	●	●	●
70°	0.04-0.10* / 0.10-0.30**	1.20	2.00	3.00	33	**E970-R-_(E)**	●	●	●	●	●
90°	0.04-0.10* / 0.10-0.30**	1.20	2.00	3.00	33	**E990-R-_(E)**	●	●	●	●	●

* tous les 0.01 mm
alle 0.01 mm
every 0.01 mm

** tous les 0.05 mm
alle 0.05 mm
every 0.05 mm

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data
> 16.116

Micro-forets et forets à centrer
Mikrobohrer und Zentrierbohrer
Micro drills and centering drills

Point angle	λ	L2	D1	D2	Type	Page
60°	25°	Div.	Ø 2.00 - 6.00	D1 = D2	**2680-60**	> 16.118
90°	25°	Div.	Ø 0.50 - 20.00	Ø 2.0 - 20.0 h5	**2680-90**	> 16.119
90°	25°	Div.	Ø 2.00 - 16.00	D1 = D2	**1680-90**	> 16.119
120°	25°	Div.	Ø 0.50 - 20.00	Ø 2.0 - 20.0 h5	**2680-120**	> 16.120
120°	25°	Div.	Ø 2.00 - 12.00	D1 = D2	**1680-120**	> 16.120

Micro-forets de préperçage
Mikro Pilotbohrer
Micro pilot drill

Z	Point angle	λ	L2	D1	D2	Type	Page
Z2	90°	25° - 32°	Div.	Ø 0.50 - 3.00	Ø2 h5 Ø3 h4	**2690**	> 16.121
Z2	130°	30°	~ 2 x D1	Ø 0.10 - 2.00	Ø3 h6	**2020**	> 16.126

Micro-forets avec affûtage à facettes
Mikrobohrer mit Facettenschliff
Micro drills with faceted drill point

Z	Point angle	λ	L2	D1	D2	Type	Page
Z2	118°	25°	~ 5-10 x D1	Ø 0.50 - 6.00	D1 = D2	**1010**	> 16.122
Z2	118°	25°/35°	~ 5-10 x D1	Ø 0.50 - 6.00	D1 = D2	**2010**	> 16.123
Z2	120°	30°	~ 2 x D1	Ø 0.80 - 2.00	Ø2 h6	**2011**	> 16.124
Z2	120°	24°	~ 3 x D1	Ø 0.50 - 2.40	Ø1.5 - 3.0 h6	**2012**	> 16.124
Z2	120°	35°	~ 8 x D1	Ø 0.40 - 1.90	Ø1.0 - 2.0 h6	**2013**	> 16.125
Z2	120°	30°	~ 12 x D1	Ø 0.50 - 1.95	Ø1.5 - 2.0 h6	**2014**	> 16.125
Z2	130°	35°	6 x D1	Ø 0.10 - 3.00	Ø3 h6	**2023**	> 16.128
Z2	130°	35°	12 x D1	Ø 0.20 - 2.00	Ø3 h6	**2026**	> 16.131
Z3	140°	35°	5 x D1	Ø 0.20 - 2.99	Ø3 h6	**2030**	> 16.133

Forets à centrer
Zentrierbohrer
Centering drills

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

Matière Werkstoff Material	VC (m/min)	f (mm)	N	TiAlN	STF
Acier de décolletage Automatenstahl Free-cutting steel (P)	60	D1/55	★★	★★★	★★★
Acier Stahl < 600 N/mm² (P) Steel	55	D1/55	★★	★★★	★★★
Acier Stahl < 800 N/mm² (P) Steel	55	D1/55	★★	★★★	★★★
Acier Stahl > 800 N/mm² (P) Steel	55	D1/55	★★	★★★	★★★
Acier trempé Gehärteter Stahl -55HRC (H) Hardened steel	10	D1/100	-	★★★	★★★
Acier trempé Gehärteter Stahl +55HRC (H) Hardened steel	-	-	-	-	-
Inox Rostfreistahl (M) Stainless steel	30	D1/85	★★	★★★	★★★
Aluminium (N)	100 - 180	D1/50	★★★	★★	★★
Cuivre, laiton, bronze Kupfer, Messing, Bronze (N) Copper, brass, bronze	60 - 90	D1/60	★★★	★★	★★
Matière synthétique Synthetisches Material (N) Synthetic material	350 - 700	D1/60	★★★	★★	★★
Métaux précieux Edelmetalle (N) Precious metals	50 - 80	D1/100	★★★	★★	★★
Titane Titan (S) Titanium	30	D1/115	★★	★★★	★★★
Alliage de nickel Nickel-Legierung (S) Nickel alloy	15 - 20	D1/120	★★	★★★	★★★
Matière exotique Exotisches material (O) Exotic material	10	D1/100	★★	★★★	★★★

Avec revêtement, augmenter les valeurs de 20-30%
Mit Beschichtung, Daten um 20-30% erhöhen
With coating, increase data by 20-30%

★ Bien / Gut / Good
★★ Très bien / Sehr gut / Very good
★★★ Excellent / Ausgezeichnet / Excellent

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

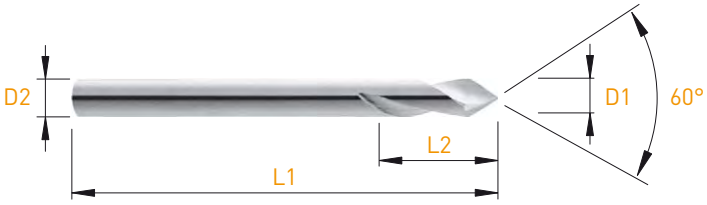
Forets
Bohrer
Drills

Matière Werkstoff Material			VC (m/min)	f (mm)	Débourrage Entspannvorgang Pecking
Acier de décolletage Automatenstahl Free-cutting steel		P	60 - 90	D1/70	1.5xØ
Acier Stahl Steel	< 600 N/mm²	P	50 - 80	D1/70	1.5xØ
Acier Stahl Steel	< 800 N/mm²	P	50 - 80	D1/70	1.5xØ
Acier Stahl Steel	> 800 N/mm²	P	50 - 80	D1/70	1.5xØ
Acier trempé Gehärteter Stahl Hardened steel	-55HRC	H	-	-	-
Acier trempé Gehärteter Stahl Hardened steel	+55HRC	H	-	-	-
Inox Rostfreistahl Stainless steel		M	20 - 30	D1/70	3xØ
Aluminium		N	100 - 180	D1/40	2xØ
Cuivre, laiton, bronze Kupfer, Messing, Bronze Copper, brass, bronze		N	50 - 85	D1/120	1xØ
Matière synthétique Synthetisches Material Synthetic material		N	350 - 750	D1/40	2xØ
Métaux précieux Edelmetalle Precious metals		N	60 - 90	D1/100	0.85xØ
Titane Titan Titanium		S	20 - 40	D1/120	1.3xØ
Alliage de nickel Nickel-Legierung Nickel alloy		S	20	D1/120	1xØ
Matière exotique Exotisches material Exotic material		O	5 - 10	D1/100	1xØ

Avec revêtement, augmenter les valeurs de 20-30%
Mit Beschichtung, Daten um 20-30% erhöhen
With coating, increase data by 20-30%

2680-60

Forets à centrer
Zentrierbohrer
Centering drills

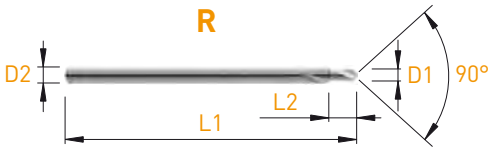


MD VHM HM	λ 25°	60°

D1 h6	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
2.00	8.00	2.00	39	**2680-2.00-60**	●	●	●
3.00	10.00	3.00	39	**2680-3.00-60**	●	●	●
4.00	12.00	4.00	50	**2680-4.00-60**	●	●	●
5.00	14.00	5.00	50	**2680-5.00-60**	●	●	●
6.00	16.00	6.00	50	**2680-6.00-60**	●	●	●

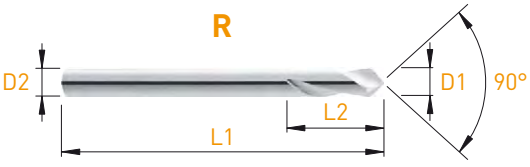
Forets à centrer
Zentrierbohrer
Centering drills

1680-90° / 2680-90°



MD VHM HM | λ 25° | 90°

R					
D1 h6	L2	D2 h5	L1	Art. N°	N
0.50	1.50	2.00	39	**2680-0.50-90**	●
0.60	1.50	2.00	39	**2680-0.60-90**	●
0.70	1.50	2.00	39	**2680-0.70-90**	●
0.80	1.50	2.00	39	**2680-0.80-90**	●
0.90	1.50	2.00	39	**2680-0.90-90**	●
1.00	3.00	2.00	39	**2680-1.00-90**	●
1.10	3.00	2.00	39	**2680-1.10-90**	●
1.20	3.00	2.00	39	**2680-1.20-90**	●
1.30	3.00	2.00	39	**2680-1.30-90**	●
1.40	3.00	2.00	39	**2680-1.40-90**	●
1.50	4.00	2.00	39	**2680-1.50-90**	●
1.60	4.00	2.00	39	**2680-1.60-90**	●
1.70	4.00	2.00	39	**2680-1.70-90**	●
1.80	4.00	2.00	39	**2680-1.80-90**	●
1.90	4.00	2.00	39	**2680-1.90-90**	●



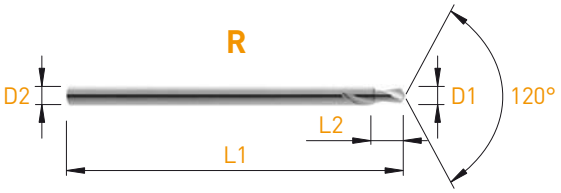
MD VHM HM | λ 25° | 90°

L		R				HSS	R	
D1 h6	L2	D2 h5	L1	Art. N°	N	Art. N°	N	TiAlN	STF		Art. N°	N
2.00	8.00	2.00	39	**1680-2.00-90**	●	**2680-2.00-90**	●	●	●		-	
2.50	8.00	2.50	39	**1680-2.50-90**	●	**2680-2.50-90**	●	●	●		-	
3.00	10.00	3.00	39	**1680-3.00-90**	●	**2680-3.00-90**	●	●	●		**2680-3.00-90-HSS**	●
4.00	12.00	4.00	50	**1680-4.00-90**	●	**2680-4.00-90**	●	●	●		**2680-4.00-90-HSS**	●
5.00	15.00	5.00	50	**1680-5.00-90**	●	**2680-5.00-90**	●	●	●		**2680-5.00-90-HSS**	●
6.00	16.00	6.00	57	**1680-6.00-90**	●	**2680-6.00-90**	●	●	●		**2680-6.00-90-HSS**	●
8.00	20.00	8.00	63	**1680-8.00-90**	●	**2680-8.00-90**	●				**2680-8.00-90-HSS**	●
10.00	22.00	10.00	72	**1680-10.00-90**	●	**2680-10.00-90**	●				**2680-10.00-90-HSS**	●
12.00	24.00	12.00	73	**1680-12.00-90**	●	**2680-12.00-90**	●				**2680-12.00-90-HSS**	●
16.00	26.00	16.00	82	**1680-16.00-90**	●	**2680-16.00-90**	●				-	
20.00	30.00	20.00	92	-		**2680-20.00-90**	●				-	

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

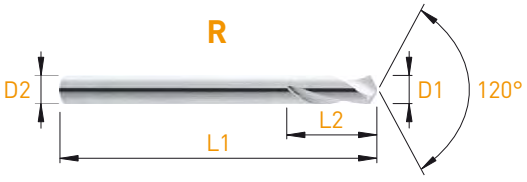
1680-120° / 2680-120°

Forets à centrer
Zentrierbohrer
Centering drills



MD VHM HM | λ 25° | 120°

D1 h6	L2	D2 h5	L1	R Art. N°	R N
0.50	1.50	2.00	39	**2680-0.50-120**	●
0.60	1.50	2.00	39	**2680-0.60-120**	●
0.70	1.50	2.00	39	**2680-0.70-120**	●
0.80	1.50	2.00	39	**2680-0.80-120**	●
0.90	1.50	2.00	39	**2680-0.90-120**	●
1.00	3.00	2.00	39	**2680-1.00-120**	●
1.10	3.00	2.00	39	**2680-1.10-120**	●
1.20	3.00	2.00	39	**2680-1.20-120**	●
1.30	3.00	2.00	39	**2680-1.30-120**	●
1.40	3.00	2.00	39	**2680-1.40-120**	●
1.50	4.00	2.00	39	**2680-1.50-120**	●
1.60	4.00	2.00	39	**2680-1.60-120**	●
1.70	4.00	2.00	39	**2680-1.70-120**	●
1.80	4.00	2.00	39	**2680-1.80-120**	●
1.90	4.00	2.00	39	**2680-1.90-120**	●

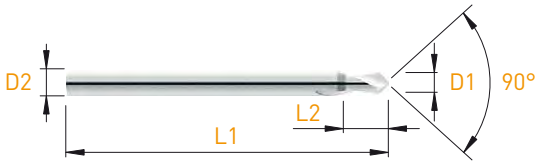


MD VHM HM | λ 25° | 120°

D1 h6	L2	D2 h5	L1	L Art. N°	L N	R Art. N°	R N	R TiAlN	R STF
2.00	8.00	2.00	39	**1680-2.00-120**	●	**2680-2.00-120**	●	●	●
2.50	8.00	2.50	39	**1680-2.50-120**	●	**2680-2.50-120**	●	●	●
3.00	10.00	3.00	39	**1680-3.00-120**	●	**2680-3.00-120**	●	●	●
4.00	12.00	4.00	50	**1680-4.00-120**	●	**2680-4.00-120**	●	●	●
5.00	15.00	5.00	50	**1680-5.00-120**	●	**2680-5.00-120**	●	●	●
6.00	16.00	6.00	57	**1680-6.00-120**	●	**2680-6.00-120**	●	●	●
8.00	20.00	8.00	63	**1680-8.00-120**	●	**2680-8.00-120**	●		
10.00	22.00	10.00	72	**1680-10.00-120**	●	**2680-10.00-120**	●		
12.00	24.00	12.00	73	**1680-12.00-120**	●	**2680-12.00-120**	●		
16.00	26.00	16.00	82	-		**2680-16.00-120**	●		
20.00	30.00	20.00	92	-		**2680-20.00-120**	●		

Micro-forets de préperçage
Mikro Pilotbohrer
Micro pilot drills

2690



MD
VHM
HM
λ 32° * λ 25° 90°

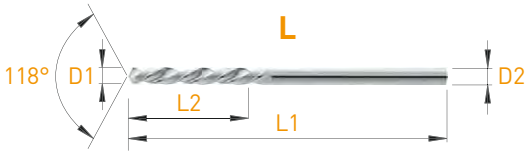
D1 h5	L2	D2 h5	L1	Art. N°	N	TiAlN	STF
0.50*	2.50	2.00	39	**2690-0.50**	●		
0.60*	2.50	2.00	39	**2690-0.60**	●		
0.70*	2.50	2.00	39	**2690-0.70**	●		
0.80*	2.50	2.00	39	**2690-0.80**	●		
0.90*	2.50	2.00	39	**2690-0.90**	●		
1.00	3.00	2.00	39	**2690-1.00**	●		
1.10	3.00	2.00	39	**2690-1.10**	●		
1.20	3.00	2.00	39	**2690-1.20**	●		
1.30	3.00	2.00	39	**2690-1.30**	●		
1.40	3.00	2.00	39	**2690-1.40**	●		
1.50	3.50	2.00	39	**2690-1.50**	●		
1.60	3.50	2.00	39	**2690-1.60**	●		
1.70	3.50	2.00	39	**2690-1.70**	●		
1.80	3.50	2.00	39	**2690-1.80**	●		
1.90	3.50	2.00	39	**2690-1.90**	●		
2.00	-	2.00	39	**2690-2.00**	●	●	●
2.10	4.00	3.00	39	**2690-2.10**	●	●	●
2.20	4.00	3.00	39	**2690-2.20**	●	●	●
2.30	4.00	3.00	39	**2690-2.30**	●	●	●
2.40	4.00	3.00	39	**2690-2.40**	●	●	●
2.50	4.00	3.00	39	**2690-2.50**	●	●	●
2.60	4.00	3.00	39	**2690-2.60**	●	●	●
2.70	4.00	3.00	39	**2690-2.70**	●	●	●
2.80	4.00	3.00	39	**2690-2.80**	●	●	●
2.90	4.00	3.00	39	**2690-2.90**	●	●	●
3.00	-	3.00	50	**2690-3.00**	●	●	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

1010

Coupe à gauche
Linksschneidend
Left hand cut

Forets cylindriques
Zylindrische Bohrer
Cylindrical drills



MD
VHM
HM

λ 25°

Z=2

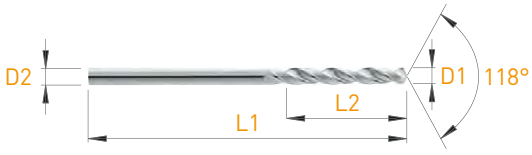
118°

D1 h6 D2 h6	L1	L2	L Art. N°	z
0.50	30	5.00	**1010-0.50**	●
0.55	30	5.00	**1010-0.55**	●
0.60	30	5.00	**1010-0.60**	●
0.65	30	6.00	**1010-0.65**	●
0.70	30	6.00	**1010-0.70**	●
0.75	30	8.00	**1010-0.75**	●
0.80	30	8.00	**1010-0.80**	●
0.85	30	9.00	**1010-0.85**	●
0.90	30	9.00	**1010-0.90**	●
0.95	30	10.00	**1010-0.95**	●
1.00	30	10.00	**1010-1.00**	●
1.05	30	10.00	**1010-1.05**	●
1.10	30	10.00	**1010-1.10**	●
1.15	30	12.00	**1010-1.15**	●
1.20	30	12.00	**1010-1.20**	●
1.25	30	12.00	**1010-1.25**	●
1.30	30	12.00	**1010-1.30**	●
1.35	30	12.00	**1010-1.35**	●
1.40	30	12.00	**1010-1.40**	●
1.45	30	12.00	**1010-1.45**	●
1.50	30	12.00	**1010-1.50**	●
1.55	40	16.00	**1010-1.55**	●
1.60	40	16.00	**1010-1.60**	●
1.65	40	16.00	**1010-1.65**	●
1.70	40	16.00	**1010-1.70**	●
1.75	40	16.00	**1010-1.75**	●
1.80	40	16.00	**1010-1.80**	●
1.85	40	16.00	**1010-1.85**	●
1.90	40	16.00	**1010-1.90**	●
1.95	40	16.00	**1010-1.95**	●
2.00	40	16.00	**1010-2.00**	●
2.05	40	18.00	**1010-2.05**	●
2.10	40	18.00	**1010-2.10**	●
2.15	40	18.00	**1010-2.15**	●
2.20	40	18.00	**1010-2.20**	●
2.25	40	18.00	**1010-2.25**	●
2.30	40	18.00	**1010-2.30**	●
2.35	40	18.00	**1010-2.35**	●
2.40	40	18.00	**1010-2.40**	●
2.45	40	18.00	**1010-2.45**	●
2.50	40	18.00	**1010-2.50**	●

D1 h6 D2 h6	L1	L2	L Art. N°	z
2.55	45	18.00	**1010-2.55**	●
2.60	45	18.00	**1010-2.60**	●
2.65	45	18.00	**1010-2.65**	●
2.70	45	18.00	**1010-2.70**	●
2.75	45	18.00	**1010-2.75**	●
2.80	45	18.00	**1010-2.80**	●
2.85	45	18.00	**1010-2.85**	●
2.90	45	18.00	**1010-2.90**	●
2.95	45	18.00	**1010-2.95**	●
3.00	45	18.00	**1010-3.00**	●
3.10	50	20.00	**1010-3.10**	●
3.20	50	20.00	**1010-3.20**	●
3.30	50	20.00	**1010-3.30**	●
3.40	50	20.00	**1010-3.40**	●
3.50	50	20.00	**1010-3.50**	●
3.60	50	20.00	**1010-3.60**	●
3.70	50	20.00	**1010-3.70**	●
3.80	50	20.00	**1010-3.80**	●
3.90	50	20.00	**1010-3.90**	●
4.00	50	20.00	**1010-4.00**	●
4.10	50	25.00	**1010-4.10**	●
4.20	50	25.00	**1010-4.20**	●
4.30	50	25.00	**1010-4.30**	●
4.40	50	25.00	**1010-4.40**	●
4.50	50	25.00	**1010-4.50**	●
4.60	50	25.00	**1010-4.60**	●
4.70	50	25.00	**1010-4.70**	●
4.80	50	25.00	**1010-4.80**	●
4.90	50	25.00	**1010-4.90**	●
5.00	50	25.00	**1010-5.00**	●
5.10	50	25.00	**1010-5.10**	●
5.20	50	25.00	**1010-5.20**	●
5.30	50	25.00	**1010-5.30**	●
5.40	50	25.00	**1010-5.40**	●
5.50	50	25.00	**1010-5.50**	●
5.60	50	25.00	**1010-5.60**	●
5.70	50	25.00	**1010-5.70**	●
5.80	50	25.00	**1010-5.80**	●
5.90	50	25.00	**1010-5.90**	●
6.00	50	25.00	**1010-6.00**	●

Forets cylindriques
Zylindrische Bohrer
Cylindrical drills

2010



MD
VHM
HM

λ 25°/35°

Z=2

118°

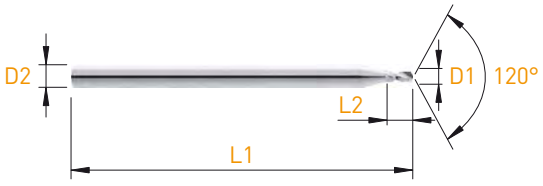
D1 h6 D2 h6	L1	L2	Art. N°	z
0.50	30	5.00	**2010-0.50**	●
0.55	30	5.00	**2010-0.55**	●
0.60	30	5.00	**2010-0.60**	●
0.65	30	6.00	**2010-0.65**	●
0.70	30	6.00	**2010-0.70**	●
0.75	30	8.00	**2010-0.75**	●
0.80	30	8.00	**2010-0.80**	●
0.85	30	9.00	**2010-0.85**	●
0.90	30	9.00	**2010-0.90**	●
0.95	30	10.00	**2010-0.95**	●
1.00	30	10.00	**2010-1.00**	●
1.05	30	10.00	**2010-1.05**	●
1.10	30	10.00	**2010-1.10**	●
1.15	30	12.00	**2010-1.15**	●
1.20	30	12.00	**2010-1.20**	●
1.25	30	12.00	**2010-1.25**	●
1.30	30	12.00	**2010-1.30**	●
1.35	30	12.00	**2010-1.35**	●
1.40	30	12.00	**2010-1.40**	●
1.45	30	12.00	**2010-1.45**	●
1.50	30	12.00	**2010-1.50**	●
1.55	40	16.00	**2010-1.55**	●
1.60	40	16.00	**2010-1.60**	●
1.65	40	16.00	**2010-1.65**	●
1.70	40	16.00	**2010-1.70**	●
1.75	40	16.00	**2010-1.75**	●
1.80	40	16.00	**2010-1.80**	●
1.85	40	16.00	**2010-1.85**	●
1.90	40	16.00	**2010-1.90**	●
1.95	40	16.00	**2010-1.95**	●
2.00	40	16.00	**2010-2.00**	●
2.05	40	18.00	**2010-2.05**	●
2.10	40	18.00	**2010-2.10**	●
2.15	40	18.00	**2010-2.15**	●
2.20	40	18.00	**2010-2.20**	●
2.25	40	18.00	**2010-2.25**	●
2.30	40	18.00	**2010-2.30**	●
2.35	40	18.00	**2010-2.35**	●
2.40	40	18.00	**2010-2.40**	●
2.45	40	18.00	**2010-2.45**	●
2.50	40	18.00	**2010-2.50**	●

D1 h6 D2 h6	L1	L2	Art. N°	z
2.55	45	18.00	**2010-2.55**	●
2.60	45	18.00	**2010-2.60**	●
2.65	45	18.00	**2010-2.65**	●
2.70	45	18.00	**2010-2.70**	●
2.75	45	18.00	**2010-2.75**	●
2.80	45	18.00	**2010-2.80**	●
2.85	45	18.00	**2010-2.85**	●
2.90	45	18.00	**2010-2.90**	●
2.95	45	18.00	**2010-2.95**	●
3.00	45	18.00	**2010-3.00**	●
3.10	50	20.00	**2010-3.10**	●
3.20	50	20.00	**2010-3.20**	●
3.30	50	20.00	**2010-3.30**	●
3.40	50	20.00	**2010-3.40**	●
3.50	50	20.00	**2010-3.50**	●
3.60	50	20.00	**2010-3.60**	●
3.70	50	20.00	**2010-3.70**	●
3.80	50	20.00	**2010-3.80**	●
3.90	50	20.00	**2010-3.90**	●
4.00	50	20.00	**2010-4.00**	●
4.10	50	25.00	**2010-4.10**	●
4.20	50	25.00	**2010-4.20**	●
4.30	50	25.00	**2010-4.30**	●
4.40	50	25.00	**2010-4.40**	●
4.50	50	25.00	**2010-4.50**	●
4.60	50	25.00	**2010-4.60**	●
4.70	50	25.00	**2010-4.70**	●
4.80	50	25.00	**2010-4.80**	●
4.90	50	25.00	**2010-4.90**	●
5.00	50	25.00	**2010-5.00**	●
5.10	50	25.00	**2010-5.10**	●
5.20	50	25.00	**2010-5.20**	●
5.30	50	25.00	**2010-5.30**	●
5.40	50	25.00	**2010-5.40**	●
5.50	50	25.00	**2010-5.50**	●
5.60	50	25.00	**2010-5.60**	●
5.70	50	25.00	**2010-5.70**	●
5.80	50	25.00	**2010-5.80**	●
5.90	50	25.00	**2010-5.90**	●
6.00	50	25.00	**2010-6.00**	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

2011 / 2012

Micro-forets
Mikrobohrer
Micro drills



MD
VHM
HM

λ 30°

Z=2

120°

D1 h6	L2	D2 h6	L1	Art. N°	Z
0.80	2.50	2.00	30	**2011-0.80**	●
0.90	2.50	2.00	30	**2011-0.90**	●
1.00	2.50	2.00	30	**2011-1.00**	●
1.10	2.50	2.00	30	**2011-1.10**	●
1.20	2.50	2.00	30	**2011-1.20**	●
1.30	2.50	2.00	30	**2011-1.30**	●
1.40	2.50	2.00	30	**2011-1.40**	●
1.50	2.50	2.00	30	**2011-1.50**	●
2.00	2.50	2.00	30	**2011-2.00**	●

MD
VHM
HM

λ 24°

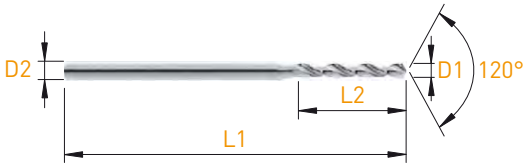
Z=2

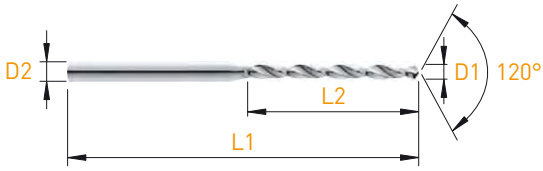
120°

D1 h6	L2	D2 Ø1.5h6 Ø2h6 Ø3h5	L1	Art. N°	Z
0.50	1.70	1.50	30	**2012-0.50**	●
0.55	1.90	1.50	30	**2012-0.55**	●
0.60	1.90	1.50	30	**2012-0.60**	●
0.65	1.90	1.50	30	**2012-0.65**	●
0.70	2.40	1.50	30	**2012-0.70**	●
0.75	2.40	1.50	30	**2012-0.75**	●
0.80	2.60	1.50	30	**2012-0.80**	●
0.85	2.60	1.50	30	**2012-0.85**	●
0.90	3.00	1.50	30	**2012-0.90**	●
0.95	3.00	1.50	30	**2012-0.95**	●
1.00	3.40	1.50	30	**2012-1.00**	●
1.10	3.80	1.50	30	**2012-1.10**	●
1.20	4.20	1.50	30	**2012-1.20**	●
1.30	4.20	1.50	30	**2012-1.30**	●
1.40	4.70	1.50	30	**2012-1.40**	●
1.50	4.70	2.00	38	**2012-1.50**	●
1.60	5.40	2.00	38	**2012-1.60**	●
1.70	5.40	2.00	38	**2012-1.70**	●
1.80	6.50	2.00	38	**2012-1.80**	●
1.90	6.50	2.00	38	**2012-1.90**	●
2.00	6.50	3.00	38	**2012-2.00**	●
2.10	6.50	3.00	38	**2012-2.10**	●
2.20	6.50	3.00	38	**2012-2.20**	●
2.30	6.50	3.00	38	**2012-2.30**	●
2.40	6.50	3.00	38	**2012-2.40**	●

Micro-forets
Mikrobohrer
Micro drills

2013 / 2014





MD VHM HM | λ 35° | Z=2 | 120°

D1 h6	L2	D2 h6	L1	Art. N°	N
0.40	3.60	1.00	25	**2013-0.40**	●
0.45	3.60	1.00	25	**2013-0.45**	●
0.50	4.00	1.00	25	**2013-0.50**	●
0.55	4.50	1.00	25	**2013-0.55**	●
0.60	4.50	1.50	30	**2013-0.60**	●
0.65	5.00	1.50	30	**2013-0.65**	●
0.70	5.60	1.50	30	**2013-0.70**	●
0.75	5.60	1.50	30	**2013-0.75**	●
0.80	6.30	1.50	30	**2013-0.80**	●
0.85	6.30	1.50	30	**2013-0.85**	●
0.90	7.10	1.50	30	**2013-0.90**	●
0.95	7.10	1.50	30	**2013-0.95**	●
1.00	8.00	1.50	30	**2013-1.00**	●
1.05	8.00	1.50	30	**2013-1.05**	●
1.10	9.00	1.50	30	**2013-1.10**	●
1.15	9.00	1.50	30	**2013-1.15**	●
1.20	10.00	1.50	30	**2013-1.20**	●
1.25	10.00	1.50	30	**2013-1.25**	●
1.30	10.00	1.50	30	**2013-1.30**	●
1.35	11.20	1.50	30	**2013-1.35**	●
1.40	11.20	1.50	30	**2013-1.40**	●
1.45	11.20	1.50	30	**2013-1.45**	●
1.50	12.00	2.00	38	**2013-1.50**	●
1.60	12.00	2.00	38	**2013-1.60**	●
1.70	12.00	2.00	38	**2013-1.70**	●
1.80	12.00	2.00	38	**2013-1.80**	●
1.90	12.00	2.00	38	**2013-1.90**	●

MD VHM HM | λ 30° | Z=2 | 120°

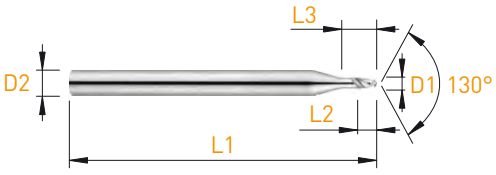
D1 h6	L2	D2 h6	L1	Art. N°	N
0.50	6.00	1.50	30	**2014-0.50**	●
0.55	6.50	1.50	30	**2014-0.55**	●
0.60	6.50	1.50	30	**2014-0.60**	●
0.65	7.50	1.50	30	**2014-0.65**	●
0.70	8.50	1.50	30	**2014-0.70**	●
0.75	8.50	1.50	30	**2014-0.75**	●
0.80	9.50	1.50	30	**2014-0.80**	●
0.85	9.50	1.50	30	**2014-0.85**	●
0.90	10.50	1.50	30	**2014-0.90**	●
0.95	10.50	1.50	30	**2014-0.95**	●
1.00	12.00	1.50	38	**2014-1.00**	●
1.05	12.00	1.50	38	**2014-1.05**	●
1.10	13.50	1.50	38	**2014-1.10**	●
1.15	13.50	1.50	38	**2014-1.15**	●
1.20	15.00	1.50	38	**2014-1.20**	●
1.25	15.00	1.50	38	**2014-1.25**	●
1.30	17.00	1.50	38	**2014-1.30**	●
1.35	17.00	1.50	38	**2014-1.35**	●
1.40	17.00	1.50	38	**2014-1.40**	●
1.45	17.00	1.50	38	**2014-1.45**	●
1.50	18.00	2.00	38	**2014-1.50**	●
1.55	18.00	2.00	38	**2014-1.55**	●
1.60	18.00	2.00	38	**2014-1.60**	●
1.65	18.00	2.00	38	**2014-1.65**	●
1.70	18.00	2.00	38	**2014-1.70**	●
1.75	18.00	2.00	38	**2014-1.75**	●
1.80	18.00	2.00	38	**2014-1.80**	●
1.85	18.00	2.00	38	**2014-1.85**	●
1.90	18.00	2.00	38	**2014-1.90**	●
1.95	18.00	2.00	38	**2014-1.95**	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

2020

Ø 0.10 - Ø 0.99 mm

Micro-forets de préperçage
Mikro Pilotbohrer
Micro pilot drills



MD VHM HM	λ 30°	2xD1	Z=2	130°	

D1 +0.005 / 0	L2	L3	D2 h6	L1	Art. N°	z
0.10	0.35	0.55	3.00	38	**2020-0.10**	●
0.11	0.35	0.55	3.00	38	**2020-0.11**	●
0.12	0.35	0.55	3.00	38	**2020-0.12**	●
0.13	0.40	0.60	3.00	38	**2020-0.13**	●
0.14	0.40	0.60	3.00	38	**2020-0.14**	●
0.15	0.40	0.60	3.00	38	**2020-0.15**	●
0.16	0.40	0.60	3.00	38	**2020-0.16**	●
0.17	0.50	0.70	3.00	38	**2020-0.17**	●
0.18	0.50	0.70	3.00	38	**2020-0.18**	●
0.19	0.50	0.70	3.00	38	**2020-0.19**	●
0.20	0.55	0.75	3.00	38	**2020-0.20**	●
0.21	0.55	0.75	3.00	38	**2020-0.21**	●
0.22	0.60	0.80	3.00	38	**2020-0.22**	●
0.23	0.60	0.80	3.00	38	**2020-0.23**	●
0.24	0.60	0.80	3.00	38	**2020-0.24**	●
0.25	0.70	0.90	3.00	38	**2020-0.25**	●
0.26	0.70	0.90	3.00	38	**2020-0.26**	●
0.27	0.70	0.90	3.00	38	**2020-0.27**	●
0.28	0.80	1.00	3.00	38	**2020-0.28**	●
0.29	0.80	1.00	3.00	38	**2020-0.29**	●
0.30	0.90	1.20	3.00	38	**2020-0.30**	●
0.31	0.90	1.20	3.00	38	**2020-0.31**	●
0.32	0.90	1.20	3.00	38	**2020-0.32**	●
0.33	0.90	1.20	3.00	38	**2020-0.33**	●
0.34	0.90	1.35	3.00	38	**2020-0.34**	●
0.35	0.90	1.35	3.00	38	**2020-0.35**	●
0.36	0.95	1.35	3.00	38	**2020-0.36**	●
0.37	0.95	1.35	3.00	38	**2020-0.37**	●
0.38	0.95	1.50	3.00	38	**2020-0.38**	●
0.39	0.95	1.50	3.00	38	**2020-0.39**	●
0.40	0.80	1.60	3.00	38	**2020-0.40**	●
0.41	0.82	1.60	3.00	38	**2020-0.41**	●
0.42	0.84	1.60	3.00	38	**2020-0.42**	●
0.43	0.86	1.60	3.00	38	**2020-0.43**	●
0.44	0.88	1.60	3.00	38	**2020-0.44**	●
0.45	0.90	1.60	3.00	38	**2020-0.45**	●
0.46	0.92	1.70	3.00	38	**2020-0.46**	●
0.47	0.94	1.70	3.00	38	**2020-0.47**	●
0.48	0.96	1.70	3.00	38	**2020-0.48**	●
0.49	0.98	1.70	3.00	38	**2020-0.49**	●
0.50	1.00	1.70	3.00	38	**2020-0.50**	●
0.51	1.02	1.80	3.00	38	**2020-0.51**	●
0.52	1.04	1.80	3.00	38	**2020-0.52**	●
0.53	1.06	1.80	3.00	38	**2020-0.53**	●
0.54	1.08	1.80	3.00	38	**2020-0.54**	●
0.55	1.10	1.80	3.00	38	**2020-0.55**	●
0.56	1.12	1.90	3.00	38	**2020-0.56**	●
0.57	1.14	1.90	3.00	38	**2020-0.57**	●
0.58	1.16	1.90	3.00	38	**2020-0.58**	●
0.59	1.18	1.90	3.00	38	**2020-0.59**	●
0.60	1.20	1.90	3.00	38	**2020-0.60**	●
0.61	1.22	2.00	3.00	38	**2020-0.61**	●
0.62	1.24	2.00	3.00	38	**2020-0.62**	●
0.63	1.26	2.00	3.00	38	**2020-0.63**	●
0.64	1.28	2.00	3.00	38	**2020-0.64**	●
0.65	1.30	2.00	3.00	38	**2020-0.65**	●
0.66	1.32	2.10	3.00	38	**2020-0.66**	●
0.67	1.34	2.10	3.00	38	**2020-0.67**	●
0.68	1.36	2.10	3.00	38	**2020-0.68**	●
0.69	1.38	2.10	3.00	38	**2020-0.69**	●
0.70	1.40	2.10	3.00	38	**2020-0.70**	●
0.71	1.42	2.20	3.00	38	**2020-0.71**	●
0.72	1.44	2.20	3.00	38	**2020-0.72**	●
0.73	1.46	2.20	3.00	38	**2020-0.73**	●
0.74	1.48	2.20	3.00	38	**2020-0.74**	●
0.75	1.50	2.20	3.00	38	**2020-0.75**	●
0.76	1.52	2.30	3.00	38	**2020-0.76**	●
0.77	1.54	2.30	3.00	38	**2020-0.77**	●
0.78	1.56	2.30	3.00	38	**2020-0.78**	●
0.79	1.58	2.30	3.00	38	**2020-0.79**	●
0.80	1.60	2.30	3.00	38	**2020-0.80**	●
0.81	1.62	2.40	3.00	38	**2020-0.81**	●
0.82	1.64	2.40	3.00	38	**2020-0.82**	●
0.83	1.66	2.40	3.00	38	**2020-0.83**	●
0.84	1.68	2.40	3.00	38	**2020-0.84**	●
0.85	1.70	2.40	3.00	38	**2020-0.85**	●
0.86	1.72	2.50	3.00	38	**2020-0.86**	●
0.87	1.74	2.50	3.00	38	**2020-0.87**	●
0.88	1.76	2.50	3.00	38	**2020-0.88**	●
0.89	1.78	2.50	3.00	38	**2020-0.89**	●
0.90	1.80	2.50	3.00	38	**2020-0.90**	●
0.91	1.82	2.60	3.00	38	**2020-0.91**	●
0.92	1.84	2.60	3.00	38	**2020-0.92**	●
0.93	1.86	2.60	3.00	38	**2020-0.93**	●
0.94	1.88	2.60	3.00	38	**2020-0.94**	●
0.95	1.90	2.60	3.00	38	**2020-0.95**	●
0.96	1.92	2.70	3.00	38	**2020-0.96**	●
0.97	1.94	2.70	3.00	38	**2020-0.97**	●
0.98	1.96	2.70	3.00	38	**2020-0.98**	●
0.99	1.98	2.70	3.00	38	**2020-0.99**	●

Micro-forets de préperçage
Mikro Pilotbohrer
Micro pilot drills

Ø 1.00 - Ø 2.00 mm

2020

D1 +0.005 / 0	L2	L3	D2 h6	L1	Art. N°	z
1.00	2.00	2.70	3.00	38	**2020-1.00**	●
1.01	2.02	3.50	3.00	38	**2020-1.01**	●
1.02	2.04	3.50	3.00	38	**2020-1.02**	●
1.03	2.06	3.50	3.00	38	**2020-1.03**	●
1.04	2.08	3.50	3.00	38	**2020-1.04**	●
1.05	2.10	3.50	3.00	38	**2020-1.05**	●
1.06	2.12	3.60	3.00	38	**2020-1.06**	●
1.07	2.14	3.60	3.00	38	**2020-1.07**	●
1.08	2.16	3.60	3.00	38	**2020-1.08**	●
1.09	2.18	3.60	3.00	38	**2020-1.09**	●
1.10	2.20	3.60	3.00	38	**2020-1.10**	●
1.11	2.22	3.70	3.00	38	**2020-1.11**	●
1.12	2.24	3.70	3.00	38	**2020-1.12**	●
1.13	2.26	3.70	3.00	38	**2020-1.13**	●
1.14	2.28	3.70	3.00	38	**2020-1.14**	●
1.15	2.30	3.70	3.00	38	**2020-1.15**	●
1.16	2.32	3.80	3.00	38	**2020-1.16**	●
1.17	2.34	3.80	3.00	38	**2020-1.17**	●
1.18	2.36	3.80	3.00	38	**2020-1.18**	●
1.19	2.38	3.80	3.00	38	**2020-1.19**	●
1.20	2.40	3.80	3.00	38	**2020-1.20**	●
1.21	2.42	4.20	3.00	38	**2020-1.21**	●
1.22	2.44	4.20	3.00	38	**2020-1.22**	●
1.23	2.46	4.20	3.00	38	**2020-1.23**	●
1.24	2.48	4.20	3.00	38	**2020-1.24**	●
1.25	2.50	4.20	3.00	38	**2020-1.25**	●
1.26	2.52	4.30	3.00	38	**2020-1.26**	●
1.27	2.54	4.30	3.00	38	**2020-1.27**	●
1.28	2.56	4.30	3.00	38	**2020-1.28**	●
1.29	2.58	4.30	3.00	38	**2020-1.29**	●
1.30	2.60	4.30	3.00	38	**2020-1.30**	●
1.31	2.62	4.40	3.00	38	**2020-1.31**	●
1.32	2.64	4.40	3.00	38	**2020-1.32**	●
1.33	2.66	4.40	3.00	38	**2020-1.33**	●
1.34	2.68	4.40	3.00	38	**2020-1.34**	●
1.35	2.70	4.40	3.00	38	**2020-1.35**	●
1.36	2.72	4.50	3.00	38	**2020-1.36**	●
1.37	2.74	4.50	3.00	38	**2020-1.37**	●
1.38	2.76	4.50	3.00	38	**2020-1.38**	●
1.39	2.78	4.50	3.00	38	**2020-1.39**	●
1.40	2.80	4.50	3.00	38	**2020-1.40**	●
1.41	2.82	4.60	3.00	38	**2020-1.41**	●
1.42	2.84	4.60	3.00	38	**2020-1.42**	●
1.43	2.86	4.60	3.00	38	**2020-1.43**	●
1.44	2.88	4.60	3.00	38	**2020-1.44**	●
1.45	2.90	4.60	3.00	38	**2020-1.45**	●
1.46	2.92	4.70	3.00	38	**2020-1.46**	●
1.47	2.94	4.70	3.00	38	**2020-1.47**	●
1.48	2.96	4.70	3.00	38	**2020-1.48**	●
1.49	2.98	4.70	3.00	38	**2020-1.49**	●
1.50	3.00	4.70	3.00	38	**2020-1.50**	●

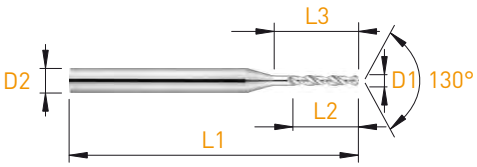
D1 +0.005 / 0	L2	L3	D2 h6	L1	Art. N°	z
1.51	3.02	5.10	3.00	38	**2020-1.51**	●
1.52	3.04	5.10	3.00	38	**2020-1.52**	●
1.53	3.06	5.10	3.00	38	**2020-1.53**	●
1.54	3.08	5.10	3.00	38	**2020-1.54**	●
1.55	3.10	5.10	3.00	38	**2020-1.55**	●
1.56	3.12	5.20	3.00	38	**2020-1.56**	●
1.57	3.14	5.20	3.00	38	**2020-1.57**	●
1.58	3.16	5.20	3.00	38	**2020-1.58**	●
1.59	3.18	5.20	3.00	38	**2020-1.59**	●
1.60	3.20	5.20	3.00	38	**2020-1.60**	●
1.61	3.22	5.30	3.00	38	**2020-1.61**	●
1.62	3.24	5.30	3.00	38	**2020-1.62**	●
1.63	3.26	5.30	3.00	38	**2020-1.63**	●
1.64	3.28	5.30	3.00	38	**2020-1.64**	●
1.65	3.30	5.30	3.00	38	**2020-1.65**	●
1.66	3.32	5.40	3.00	38	**2020-1.66**	●
1.67	3.34	5.40	3.00	38	**2020-1.67**	●
1.68	3.36	5.40	3.00	38	**2020-1.68**	●
1.69	3.38	5.40	3.00	38	**2020-1.69**	●
1.70	3.40	5.40	3.00	38	**2020-1.70**	●
1.71	3.42	5.50	3.00	38	**2020-1.71**	●
1.72	3.44	5.50	3.00	38	**2020-1.72**	●
1.73	3.46	5.50	3.00	38	**2020-1.73**	●
1.74	3.48	5.50	3.00	38	**2020-1.74**	●
1.75	3.50	5.50	3.00	38	**2020-1.75**	●
1.76	3.52	5.60	3.00	38	**2020-1.76**	●
1.77	3.54	5.60	3.00	38	**2020-1.77**	●
1.78	3.56	5.60	3.00	38	**2020-1.78**	●
1.79	3.58	5.60	3.00	38	**2020-1.79**	●
1.80	3.60	5.60	3.00	38	**2020-1.80**	●
1.81	3.62	5.70	3.00	38	**2020-1.81**	●
1.82	3.64	5.70	3.00	38	**2020-1.82**	●
1.83	3.66	5.70	3.00	38	**2020-1.83**	●
1.84	3.68	5.70	3.00	38	**2020-1.84**	●
1.85	3.70	5.70	3.00	38	**2020-1.85**	●
1.86	3.72	5.80	3.00	38	**2020-1.86**	●
1.87	3.74	5.80	3.00	38	**2020-1.87**	●
1.88	3.76	5.80	3.00	38	**2020-1.88**	●
1.89	3.78	5.80	3.00	38	**2020-1.89**	●
1.90	3.80	5.80	3.00	38	**2020-1.90**	●
1.91	3.82	5.90	3.00	38	**2020-1.91**	●
1.92	3.84	5.90	3.00	38	**2020-1.92**	●
1.93	3.86	5.90	3.00	38	**2020-1.93**	●
1.94	3.88	5.90	3.00	38	**2020-1.94**	●
1.95	3.90	5.90	3.00	38	**2020-1.95**	●
1.96	3.92	6.00	3.00	38	**2020-1.96**	●
1.97	3.94	6.00	3.00	38	**2020-1.97**	●
1.98	3.96	6.00	3.00	38	**2020-1.98**	●
1.99	3.98	6.00	3.00	38	**2020-1.99**	●
2.00	4.00	6.00	3.00	38	**2020-2.00**	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

2023

Ø 0.10 - Ø 0.99 mm

Micro-forets
Mikrobohrer
Micro drills



MD VHM HM	λ 35°	6xD1	Z=2	130°	

D1 0 / -0.004	L2	L3	D2 h6	L1	Art. N°	z
0.10	0.50	0.70	3.00	38	**2023-0.10**	●
0.11	0.50	0.70	3.00	38	**2023-0.11**	●
0.12	0.50	0.70	3.00	38	**2023-0.12**	●
0.13	0.80	1.00	3.00	38	**2023-0.13**	●
0.14	0.80	1.00	3.00	38	**2023-0.14**	●
0.15	0.80	1.00	3.00	38	**2023-0.15**	●
0.16	1.10	1.40	3.00	38	**2023-0.16**	●
0.17	1.10	1.40	3.00	38	**2023-0.17**	●
0.18	1.10	1.40	3.00	38	**2023-0.18**	●
0.19	1.10	1.40	3.00	38	**2023-0.19**	●
0.20	1.50	1.80	3.00	38	**2023-0.20**	●
0.21	1.50	1.80	3.00	38	**2023-0.21**	●
0.22	1.50	1.80	3.00	38	**2023-0.22**	●
0.23	1.50	1.80	3.00	38	**2023-0.23**	●
0.24	1.50	1.80	3.00	38	**2023-0.24**	●
0.25	1.90	2.20	3.00	38	**2023-0.25**	●
0.26	1.90	2.20	3.00	38	**2023-0.26**	●
0.27	1.90	2.20	3.00	38	**2023-0.27**	●
0.28	1.90	2.20	3.00	38	**2023-0.28**	●
0.29	1.90	2.20	3.00	38	**2023-0.29**	●
0.30	1.80	2.40	3.00	38	**2023-0.30**	●
0.31	1.80	2.40	3.00	38	**2023-0.31**	●
0.32	1.80	2.40	3.00	38	**2023-0.32**	●
0.33	1.80	2.40	3.00	38	**2023-0.33**	●
0.34	1.80	2.40	3.00	38	**2023-0.34**	●
0.35	2.20	2.80	3.00	38	**2023-0.35**	●
0.36	2.20	2.80	3.00	38	**2023-0.36**	●
0.37	2.20	2.80	3.00	38	**2023-0.37**	●
0.38	2.20	2.80	3.00	38	**2023-0.38**	●
0.39	2.70	3.60	3.00	38	**2023-0.39**	●
0.40	2.70	3.60	3.00	38	**2023-0.40**	●
0.41	2.70	3.60	3.00	38	**2023-0.41**	●
0.42	2.70	3.60	3.00	38	**2023-0.42**	●
0.43	2.70	3.60	3.00	38	**2023-0.43**	●
0.44	2.70	3.60	3.00	38	**2023-0.44**	●
0.45	2.70	3.60	3.00	38	**2023-0.45**	●
0.46	2.70	3.60	3.00	38	**2023-0.46**	●
0.47	2.70	3.60	3.00	38	**2023-0.47**	●
0.48	2.70	3.60	3.00	38	**2023-0.48**	●
0.49	3.20	4.00	3.00	38	**2023-0.49**	●
0.50	3.20	4.00	3.00	38	**2023-0.50**	●
0.51	3.20	4.00	3.00	38	**2023-0.51**	●
0.52	3.20	4.00	3.00	38	**2023-0.52**	●
0.53	3.20	4.00	3.00	38	**2023-0.53**	●
0.54	3.60	4.50	3.00	38	**2023-0.54**	●
0.55	3.60	4.50	3.00	38	**2023-0.55**	●
0.56	3.60	4.50	3.00	38	**2023-0.56**	●
0.57	3.60	4.50	3.00	38	**2023-0.57**	●
0.58	3.60	4.50	3.00	38	**2023-0.58**	●
0.59	3.60	4.50	3.00	38	**2023-0.59**	●
0.60	3.60	4.50	3.00	38	**2023-0.60**	●
0.61	3.90	5.00	3.00	38	**2023-0.61**	●
0.62	3.90	5.00	3.00	38	**2023-0.62**	●
0.63	3.90	5.00	3.00	38	**2023-0.63**	●
0.64	3.90	5.00	3.00	38	**2023-0.64**	●
0.65	3.90	5.00	3.00	38	**2023-0.65**	●
0.66	3.90	5.00	3.00	38	**2023-0.66**	●
0.67	3.90	5.00	3.00	38	**2023-0.67**	●
0.68	4.50	5.60	3.00	38	**2023-0.68**	●
0.69	4.50	5.60	3.00	38	**2023-0.69**	●
0.70	4.50	5.60	3.00	38	**2023-0.70**	●
0.71	4.50	5.60	3.00	38	**2023-0.71**	●
0.72	4.50	5.60	3.00	38	**2023-0.72**	●
0.73	4.50	5.60	3.00	38	**2023-0.73**	●
0.74	4.50	5.60	3.00	38	**2023-0.74**	●
0.75	4.50	5.60	3.00	38	**2023-0.75**	●
0.76	5.00	6.30	3.00	38	**2023-0.76**	●
0.77	5.00	6.30	3.00	38	**2023-0.77**	●
0.78	5.00	6.30	3.00	38	**2023-0.78**	●
0.79	5.00	6.30	3.00	38	**2023-0.79**	●
0.80	5.00	6.30	3.00	38	**2023-0.80**	●
0.81	5.00	6.30	3.00	38	**2023-0.81**	●
0.82	5.00	6.30	3.00	38	**2023-0.82**	●
0.83	5.00	6.30	3.00	38	**2023-0.83**	●
0.84	5.00	6.30	3.00	38	**2023-0.84**	●
0.85	5.00	6.30	3.00	38	**2023-0.85**	●
0.86	5.70	7.10	3.00	38	**2023-0.86**	●
0.87	5.70	7.10	3.00	38	**2023-0.87**	●
0.88	5.70	7.10	3.00	38	**2023-0.88**	●
0.89	5.70	7.10	3.00	38	**2023-0.89**	●
0.90	5.70	7.10	3.00	38	**2023-0.90**	●
0.91	5.70	7.10	3.00	38	**2023-0.91**	●
0.92	5.70	7.10	3.00	38	**2023-0.92**	●
0.93	5.70	7.10	3.00	38	**2023-0.93**	●
0.94	5.70	7.10	3.00	38	**2023-0.94**	●
0.95	5.70	7.10	3.00	38	**2023-0.95**	●
0.96	6.50	8.00	3.00	38	**2023-0.96**	●
0.97	6.50	8.00	3.00	38	**2023-0.97**	●
0.98	6.50	8.00	3.00	38	**2023-0.98**	●
0.99	6.50	8.00	3.00	38	**2023-0.99**	●

Micro-forets
Mikrobohrer
Micro drills

Ø 1.00 - Ø 2.00 mm

2023

D1 0 / -0.004	L2	L3	D2 h6	L1	Art. N°	z
1.00	6.50	8.00	3.00	38	**2023-1.00**	●
1.01	6.50	8.00	3.00	38	**2023-1.01**	●
1.02	6.50	8.00	3.00	38	**2023-1.02**	●
1.03	6.50	8.00	3.00	38	**2023-1.03**	●
1.04	6.50	8.00	3.00	38	**2023-1.04**	●
1.05	6.50	8.00	3.00	38	**2023-1.05**	●
1.06	7.30	9.00	3.00	38	**2023-1.06**	●
1.07	7.30	9.00	3.00	38	**2023-1.07**	●
1.08	7.30	9.00	3.00	38	**2023-1.08**	●
1.09	7.30	9.00	3.00	38	**2023-1.09**	●
1.10	7.30	9.00	3.00	38	**2023-1.10**	●
1.11	7.30	9.00	3.00	38	**2023-1.11**	●
1.12	7.30	9.00	3.00	38	**2023-1.12**	●
1.13	7.30	9.00	3.00	38	**2023-1.13**	●
1.14	7.30	9.00	3.00	38	**2023-1.14**	●
1.15	7.30	9.00	3.00	38	**2023-1.15**	●
1.16	8.20	10.00	3.00	38	**2023-1.16**	●
1.17	8.20	10.00	3.00	38	**2023-1.17**	●
1.18	8.20	10.00	3.00	38	**2023-1.18**	●
1.19	8.20	10.00	3.00	38	**2023-1.19**	●
1.20	8.20	10.00	3.00	38	**2023-1.20**	●
1.21	8.20	10.00	3.00	38	**2023-1.21**	●
1.22	8.20	10.00	3.00	38	**2023-1.22**	●
1.23	8.20	10.00	3.00	38	**2023-1.23**	●
1.24	8.20	10.00	3.00	38	**2023-1.24**	●
1.25	8.20	10.00	3.00	38	**2023-1.25**	●
1.26	8.20	10.00	3.00	38	**2023-1.26**	●
1.27	8.20	10.00	3.00	38	**2023-1.27**	●
1.28	8.20	10.00	3.00	38	**2023-1.28**	●
1.29	8.20	10.00	3.00	38	**2023-1.29**	●
1.30	8.20	10.00	3.00	38	**2023-1.30**	●
1.31	9.20	11.20	3.00	38	**2023-1.31**	●
1.32	9.20	11.20	3.00	38	**2023-1.32**	●
1.33	9.20	11.20	3.00	38	**2023-1.33**	●
1.34	9.20	11.20	3.00	38	**2023-1.34**	●
1.35	9.20	11.20	3.00	38	**2023-1.35**	●
1.36	9.20	11.20	3.00	38	**2023-1.36**	●
1.37	9.20	11.20	3.00	38	**2023-1.37**	●
1.38	9.20	11.20	3.00	38	**2023-1.38**	●
1.39	9.20	11.20	3.00	38	**2023-1.39**	●
1.40	9.20	11.20	3.00	38	**2023-1.40**	●
1.41	9.20	11.20	3.00	38	**2023-1.41**	●
1.42	9.20	11.20	3.00	38	**2023-1.42**	●
1.43	9.20	11.20	3.00	38	**2023-1.43**	●
1.44	9.20	11.20	3.00	38	**2023-1.44**	●
1.45	9.20	11.20	3.00	38	**2023-1.45**	●
1.46	9.20	11.20	3.00	38	**2023-1.46**	●
1.47	9.20	11.20	3.00	38	**2023-1.47**	●
1.48	9.20	11.20	3.00	38	**2023-1.48**	●
1.49	9.20	11.20	3.00	38	**2023-1.49**	●
1.50	9.20	11.20	3.00	38	**2023-1.50**	●

D1 0 / -0.004	L2	L3	D2 h6	L1	Art. N°	z
1.51	11.20	13.40	3.00	38	**2023-1.51**	●
1.52	11.20	13.40	3.00	38	**2023-1.52**	●
1.53	11.20	13.40	3.00	38	**2023-1.53**	●
1.54	11.20	13.40	3.00	38	**2023-1.54**	●
1.55	11.20	13.40	3.00	38	**2023-1.55**	●
1.56	11.20	13.40	3.00	38	**2023-1.56**	●
1.57	11.20	13.40	3.00	38	**2023-1.57**	●
1.58	11.20	13.40	3.00	38	**2023-1.58**	●
1.59	11.20	13.40	3.00	38	**2023-1.59**	●
1.60	11.20	13.40	3.00	38	**2023-1.60**	●
1.61	11.20	13.40	3.00	38	**2023-1.61**	●
1.62	11.20	13.40	3.00	38	**2023-1.62**	●
1.63	11.20	13.40	3.00	38	**2023-1.63**	●
1.64	11.20	13.40	3.00	38	**2023-1.64**	●
1.65	11.20	13.40	3.00	38	**2023-1.65**	●
1.66	11.20	13.40	3.00	38	**2023-1.66**	●
1.67	11.20	13.40	3.00	38	**2023-1.67**	●
1.68	11.20	13.40	3.00	38	**2023-1.68**	●
1.69	11.20	13.40	3.00	38	**2023-1.69**	●
1.70	11.20	13.40	3.00	38	**2023-1.70**	●
1.71	11.20	13.40	3.00	38	**2023-1.71**	●
1.72	11.20	13.40	3.00	38	**2023-1.72**	●
1.73	11.20	13.40	3.00	38	**2023-1.73**	●
1.74	11.20	13.40	3.00	38	**2023-1.74**	●
1.75	11.20	13.40	3.00	38	**2023-1.75**	●
1.76	11.20	13.40	3.00	38	**2023-1.76**	●
1.77	11.20	13.40	3.00	38	**2023-1.77**	●
1.78	11.20	13.40	3.00	38	**2023-1.78**	●
1.79	11.20	13.40	3.00	38	**2023-1.79**	●
1.80	11.20	13.40	3.00	38	**2023-1.80**	●
1.81	11.20	13.40	3.00	38	**2023-1.81**	●
1.82	11.20	13.40	3.00	38	**2023-1.82**	●
1.83	11.20	13.40	3.00	38	**2023-1.83**	●
1.84	11.20	13.40	3.00	38	**2023-1.84**	●
1.85	11.20	13.40	3.00	38	**2023-1.85**	●
1.86	11.20	13.40	3.00	38	**2023-1.86**	●
1.87	11.20	13.40	3.00	38	**2023-1.87**	●
1.88	11.20	13.40	3.00	38	**2023-1.88**	●
1.89	11.20	13.40	3.00	38	**2023-1.89**	●
1.90	11.20	13.40	3.00	38	**2023-1.90**	●
1.91	11.20	13.40	3.00	38	**2023-1.91**	●
1.92	11.20	13.40	3.00	38	**2023-1.92**	●
1.93	11.20	13.40	3.00	38	**2023-1.93**	●
1.94	11.20	13.40	3.00	38	**2023-1.94**	●
1.95	11.20	13.40	3.00	38	**2023-1.95**	●
1.96	11.20	13.40	3.00	38	**2023-1.96**	●
1.97	11.20	13.40	3.00	38	**2023-1.97**	●
1.98	11.20	13.40	3.00	38	**2023-1.98**	●
1.99	11.20	13.40	3.00	38	**2023-1.99**	●
2.00	11.20	13.40	3.00	38	**2023-2.00**	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

2023

Ø 2.01 - Ø 3.00 mm

Micro-forets
Mikrobohrer
Micro drills

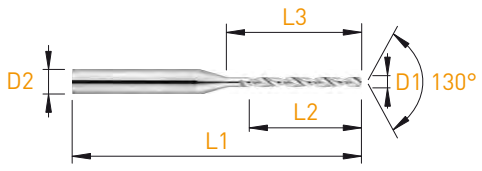
D1 0 / -0.004	L2	L3	D2 h6	L1	Art. N°	z
2.01	12.50	14.00	3.00	38	**2023-2.01**	●
2.02	12.50	14.00	3.00	38	**2023-2.02**	●
2.03	12.50	14.00	3.00	38	**2023-2.03**	●
2.04	12.50	14.00	3.00	38	**2023-2.04**	●
2.05	12.50	14.00	3.00	38	**2023-2.05**	●
2.06	12.50	14.00	3.00	38	**2023-2.06**	●
2.07	12.50	14.00	3.00	38	**2023-2.07**	●
2.08	12.50	14.00	3.00	38	**2023-2.08**	●
2.09	12.50	14.00	3.00	38	**2023-2.09**	●
2.10	12.50	14.00	3.00	38	**2023-2.10**	●
2.11	12.50	14.00	3.00	38	**2023-2.11**	●
2.12	12.50	14.00	3.00	38	**2023-2.12**	●
2.13	12.50	14.00	3.00	38	**2023-2.13**	●
2.14	12.50	14.00	3.00	38	**2023-2.14**	●
2.15	12.50	14.00	3.00	38	**2023-2.15**	●
2.16	12.50	14.00	3.00	38	**2023-2.16**	●
2.17	12.50	14.00	3.00	38	**2023-2.17**	●
2.18	12.50	14.00	3.00	38	**2023-2.18**	●
2.19	12.50	14.00	3.00	38	**2023-2.19**	●
2.20	12.50	14.00	3.00	38	**2023-2.20**	●
2.21	12.50	14.00	3.00	38	**2023-2.21**	●
2.22	12.50	14.00	3.00	38	**2023-2.22**	●
2.23	12.50	14.00	3.00	38	**2023-2.23**	●
2.24	12.50	14.00	3.00	38	**2023-2.24**	●
2.25	12.50	14.00	3.00	38	**2023-2.25**	●
2.26	12.50	14.00	3.00	38	**2023-2.26**	●
2.27	12.50	14.00	3.00	38	**2023-2.27**	●
2.28	12.50	14.00	3.00	38	**2023-2.28**	●
2.29	12.50	14.00	3.00	38	**2023-2.29**	●
2.30	12.50	14.00	3.00	38	**2023-2.30**	●
2.31	12.50	14.00	3.00	38	**2023-2.31**	●
2.32	12.50	14.00	3.00	38	**2023-2.32**	●
2.33	12.50	14.00	3.00	38	**2023-2.33**	●
2.34	12.50	14.00	3.00	38	**2023-2.34**	●
2.35	12.50	14.00	3.00	38	**2023-2.35**	●
2.36	12.50	14.00	3.00	38	**2023-2.36**	●
2.37	12.50	14.00	3.00	38	**2023-2.37**	●
2.38	12.50	14.00	3.00	38	**2023-2.38**	●
2.39	12.50	14.00	3.00	38	**2023-2.39**	●
2.40	12.50	14.00	3.00	38	**2023-2.40**	●
2.41	12.50	14.00	3.00	38	**2023-2.41**	●
2.42	12.50	14.00	3.00	38	**2023-2.42**	●
2.43	12.50	14.00	3.00	38	**2023-2.43**	●
2.44	12.50	14.00	3.00	38	**2023-2.44**	●
2.45	12.50	14.00	3.00	38	**2023-2.45**	●
2.46	12.50	14.00	3.00	38	**2023-2.46**	●
2.47	12.50	14.00	3.00	38	**2023-2.47**	●
2.48	12.50	14.00	3.00	38	**2023-2.48**	●
2.49	12.50	14.00	3.00	38	**2023-2.49**	●
2.50	14.00	17.00	3.00	38	**2023-2.50**	●

D1 0 / -0.004	L2	L3	D2 h6	L1	Art. N°	z
2.51	14.00	17.00	3.00	38	**2023-2.51**	●
2.52	14.00	17.00	3.00	38	**2023-2.52**	●
2.53	14.00	17.00	3.00	38	**2023-2.53**	●
2.54	14.00	17.00	3.00	38	**2023-2.54**	●
2.55	14.00	17.00	3.00	38	**2023-2.55**	●
2.56	14.00	17.00	3.00	38	**2023-2.56**	●
2.57	14.00	17.00	3.00	38	**2023-2.57**	●
2.58	14.00	17.00	3.00	38	**2023-2.58**	●
2.59	14.00	17.00	3.00	38	**2023-2.59**	●
2.60	14.00	17.00	3.00	38	**2023-2.60**	●
2.61	14.00	17.00	3.00	38	**2023-2.61**	●
2.62	14.00	17.00	3.00	38	**2023-2.62**	●
2.63	14.00	17.00	3.00	38	**2023-2.63**	●
2.64	14.00	17.00	3.00	38	**2023-2.64**	●
2.65	14.00	17.00	3.00	38	**2023-2.65**	●
2.66	14.00	17.00	3.00	38	**2023-2.66**	●
2.67	14.00	17.00	3.00	38	**2023-2.67**	●
2.68	14.00	17.00	3.00	38	**2023-2.68**	●
2.69	14.00	17.00	3.00	38	**2023-2.69**	●
2.70	14.00	17.00	3.00	38	**2023-2.70**	●
2.71	14.00	17.00	3.00	38	**2023-2.71**	●
2.72	14.00	17.00	3.00	38	**2023-2.72**	●
2.73	14.00	17.00	3.00	38	**2023-2.73**	●
2.74	14.00	17.00	3.00	38	**2023-2.74**	●
2.75	14.00	17.00	3.00	38	**2023-2.75**	●
2.76	14.00	17.00	3.00	38	**2023-2.76**	●
2.77	14.00	17.00	3.00	38	**2023-2.77**	●
2.78	14.00	17.00	3.00	38	**2023-2.78**	●
2.79	14.00	17.00	3.00	38	**2023-2.79**	●
2.80	14.00	17.00	3.00	38	**2023-2.80**	●
2.81	14.00	17.00	3.00	38	**2023-2.81**	●
2.82	14.00	17.00	3.00	38	**2023-2.82**	●
2.83	14.00	17.00	3.00	38	**2023-2.83**	●
2.84	14.00	17.00	3.00	38	**2023-2.84**	●
2.85	14.00	17.00	3.00	38	**2023-2.85**	●
2.86	14.00	17.00	3.00	38	**2023-2.86**	●
2.87	14.00	17.00	3.00	38	**2023-2.87**	●
2.88	14.00	17.00	3.00	38	**2023-2.88**	●
2.89	14.00	17.00	3.00	38	**2023-2.89**	●
2.90	14.00	17.00	3.00	38	**2023-2.90**	●
2.91	14.00	17.00	3.00	38	**2023-2.91**	●
2.92	14.00	17.00	3.00	38	**2023-2.92**	●
2.93	14.00	17.00	3.00	38	**2023-2.93**	●
2.94	14.00	17.00	3.00	38	**2023-2.94**	●
2.95	14.00	17.00	3.00	38	**2023-2.95**	●
2.96	14.00	17.00	3.00	38	**2023-2.96**	●
2.97	14.00	17.00	3.00	38	**2023-2.97**	●
2.98	14.00	17.00	3.00	38	**2023-2.98**	●
2.99	14.00	17.00	3.00	38	**2023-2.99**	●
3.00	14.00	17.00	3.00	38	**2023-3.00**	●

Micro-forets
Mikrobohrer
Micro drills

Ø 0.20 - Ø 1.09 mm

2026



MD VHM HM	λ 25°	Z=2	12xD1	130°	

D1 h6	L2	L3	D2 h6	L1	Art. N°	z
0.20	2.40	3.50	3.00	38	**2026-0.20**	●
0.21	2.50	3.50	3.00	38	**2026-0.21**	●
0.22	2.70	3.50	3.00	38	**2026-0.22**	●
0.23	2.80	3.50	3.00	38	**2026-0.23**	●
0.24	2.90	4.00	3.00	38	**2026-0.24**	●
0.25	3.00	4.00	3.00	38	**2026-0.25**	●
0.26	3.10	4.00	3.00	38	**2026-0.26**	●
0.27	3.30	4.00	3.00	38	**2026-0.27**	●
0.28	3.40	4.50	3.00	38	**2026-0.28**	●
0.29	3.50	4.50	3.00	38	**2026-0.29**	●
0.30	3.60	4.50	3.00	38	**2026-0.30**	●
0.31	3.70	4.50	3.00	38	**2026-0.31**	●
0.32	3.90	5.00	3.00	38	**2026-0.32**	●
0.33	4.00	5.00	3.00	38	**2026-0.33**	●
0.34	4.10	5.00	3.00	38	**2026-0.34**	●
0.35	4.20	5.00	3.00	38	**2026-0.35**	●
0.36	4.30	5.50	3.00	38	**2026-0.36**	●
0.37	4.50	5.50	3.00	38	**2026-0.37**	●
0.38	4.60	5.50	3.00	38	**2026-0.38**	●
0.39	4.70	5.50	3.00	38	**2026-0.39**	●
0.40	4.80	6.00	3.00	38	**2026-0.40**	●
0.41	4.90	6.00	3.00	38	**2026-0.41**	●
0.42	5.10	6.00	3.00	38	**2026-0.42**	●
0.43	5.20	6.00	3.00	38	**2026-0.43**	●
0.44	5.30	6.50	3.00	38	**2026-0.44**	●
0.45	5.40	6.50	3.00	38	**2026-0.45**	●
0.46	5.50	6.50	3.00	38	**2026-0.46**	●
0.47	5.70	6.50	3.00	38	**2026-0.47**	●
0.48	5.80	7.00	3.00	38	**2026-0.48**	●
0.49	5.90	7.00	3.00	38	**2026-0.49**	●
0.50	6.00	7.00	3.00	38	**2026-0.50**	●
0.51	6.10	7.00	3.00	38	**2026-0.51**	●
0.52	6.30	7.50	3.00	38	**2026-0.52**	●
0.53	6.40	7.50	3.00	38	**2026-0.53**	●
0.54	6.50	7.50	3.00	38	**2026-0.54**	●
0.55	6.60	7.50	3.00	38	**2026-0.55**	●
0.56	6.70	8.00	3.00	38	**2026-0.56**	●
0.57	6.90	8.00	3.00	38	**2026-0.57**	●
0.58	7.00	8.00	3.00	38	**2026-0.58**	●
0.59	7.10	8.00	3.00	38	**2026-0.59**	●
0.60	7.20	9.00	3.00	38	**2026-0.60**	●
0.61	7.30	9.00	3.00	38	**2026-0.61**	●
0.62	7.50	9.00	3.00	38	**2026-0.62**	●
0.63	7.60	9.00	3.00	38	**2026-0.63**	●
0.64	7.70	9.50	3.00	38	**2026-0.64**	●
0.65	7.80	9.50	3.00	38	**2026-0.65**	●
0.66	7.90	9.50	3.00	38	**2026-0.66**	●
0.67	8.10	9.50	3.00	38	**2026-0.67**	●
0.68	8.20	10.00	3.00	38	**2026-0.68**	●
0.69	8.30	10.00	3.00	38	**2026-0.69**	●
0.70	8.40	10.00	3.00	38	**2026-0.70**	●
0.71	8.50	10.00	3.00	38	**2026-0.71**	●
0.72	8.70	10.50	3.00	38	**2026-0.72**	●
0.73	8.80	10.50	3.00	38	**2026-0.73**	●
0.74	8.90	10.50	3.00	38	**2026-0.74**	●
0.75	9.00	10.50	3.00	38	**2026-0.75**	●
0.76	9.10	11.00	3.00	38	**2026-0.76**	●
0.77	9.30	11.00	3.00	38	**2026-0.77**	●
0.78	9.40	11.00	3.00	38	**2026-0.78**	●
0.79	9.50	11.00	3.00	38	**2026-0.79**	●
0.80	9.60	11.50	3.00	38	**2026-0.80**	●
0.81	9.70	11.50	3.00	38	**2026-0.81**	●
0.82	9.90	11.50	3.00	38	**2026-0.82**	●
0.83	10.00	11.50	3.00	38	**2026-0.83**	●
0.84	10.10	12.00	3.00	38	**2026-0.84**	●
0.85	10.20	12.00	3.00	38	**2026-0.85**	●
0.86	10.30	12.00	3.00	38	**2026-0.86**	●
0.87	10.50	12.00	3.00	38	**2026-0.87**	●
0.88	10.60	12.50	3.00	38	**2026-0.88**	●
0.89	10.70	12.50	3.00	38	**2026-0.89**	●
0.90	10.80	12.50	3.00	38	**2026-0.90**	●
0.91	10.90	12.50	3.00	38	**2026-0.91**	●
0.92	11.10	13.00	3.00	38	**2026-0.92**	●
0.93	11.20	13.00	3.00	38	**2026-0.93**	●
0.94	11.30	13.00	3.00	38	**2026-0.94**	●
0.95	11.40	13.00	3.00	38	**2026-0.95**	●
0.96	11.50	13.50	3.00	38	**2026-0.96**	●
0.97	11.70	13.50	3.00	38	**2026-0.97**	●
0.98	11.80	13.50	3.00	38	**2026-0.98**	●
0.99	11.90	13.50	3.00	38	**2026-0.99**	●
1.00	12.00	14.50	3.00	38	**2026-1.00**	●
1.01	12.10	14.50	3.00	38	**2026-1.01**	●
1.02	12.30	14.50	3.00	38	**2026-1.02**	●
1.03	12.40	14.50	3.00	38	**2026-1.03**	●
1.04	12.50	15.00	3.00	38	**2026-1.04**	●
1.05	12.60	15.00	3.00	38	**2026-1.05**	●
1.06	12.70	15.00	3.00	38	**2026-1.06**	●
1.07	12.90	15.00	3.00	38	**2026-1.07**	●
1.08	13.00	15.50	3.00	38	**2026-1.08**	●
1.09	13.10	15.50	3.00	38	**2026-1.09**	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

2026

Ø 1.10 - Ø 2.00 mm

Micro-forets
Mikrobohrer
Micro drills

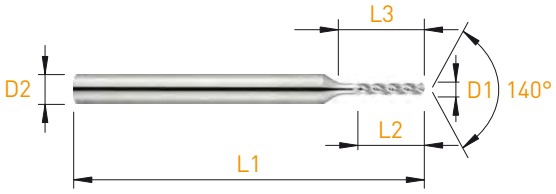
D1 h6	L2	L3	D2 h6	L1	Art. N°	z
1.10	13.20	15.50	3.00	38	**2026-1.10**	●
1.11	13.30	15.50	3.00	38	**2026-1.11**	●
1.12	13.50	16.00	3.00	38	**2026-1.12**	●
1.13	13.60	16.00	3.00	38	**2026-1.13**	●
1.14	13.70	16.00	3.00	38	**2026-1.14**	●
1.15	13.80	16.00	3.00	38	**2026-1.15**	●
1.16	13.90	16.50	3.00	38	**2026-1.16**	●
1.17	14.10	16.50	3.00	38	**2026-1.17**	●
1.18	14.20	16.50	3.00	38	**2026-1.18**	●
1.19	14.30	16.50	3.00	38	**2026-1.19**	●
1.20	14.40	17.00	3.00	38	**2026-1.20**	●
1.21	14.50	17.00	3.00	38	**2026-1.21**	●
1.22	14.70	17.00	3.00	38	**2026-1.22**	●
1.23	14.80	17.00	3.00	38	**2026-1.23**	●
1.24	14.90	17.50	3.00	38	**2026-1.24**	●
1.25	15.00	17.50	3.00	38	**2026-1.25**	●
1.26	15.10	17.50	3.00	50	**2026-1.26**	●
1.27	15.30	17.50	3.00	50	**2026-1.27**	●
1.28	15.40	18.00	3.00	50	**2026-1.28**	●
1.29	15.50	18.00	3.00	50	**2026-1.29**	●
1.30	15.60	18.00	3.00	50	**2026-1.30**	●
1.31	15.70	18.00	3.00	50	**2026-1.31**	●
1.32	15.90	18.50	3.00	50	**2026-1.32**	●
1.33	16.00	18.50	3.00	50	**2026-1.33**	●
1.34	16.10	18.50	3.00	50	**2026-1.34**	●
1.35	16.20	18.50	3.00	50	**2026-1.35**	●
1.36	16.30	19.00	3.00	50	**2026-1.36**	●
1.37	16.50	19.00	3.00	50	**2026-1.37**	●
1.38	16.60	19.00	3.00	50	**2026-1.38**	●
1.39	16.70	19.00	3.00	50	**2026-1.39**	●
1.40	16.80	19.50	3.00	50	**2026-1.40**	●
1.41	16.90	19.50	3.00	50	**2026-1.41**	●
1.42	17.10	19.50	3.00	50	**2026-1.42**	●
1.43	17.20	19.50	3.00	50	**2026-1.43**	●
1.44	17.30	20.00	3.00	50	**2026-1.44**	●
1.45	17.40	20.00	3.00	50	**2026-1.45**	●
1.46	17.50	20.00	3.00	50	**2026-1.46**	●
1.47	17.70	20.00	3.00	50	**2026-1.47**	●
1.48	17.80	20.50	3.00	50	**2026-1.48**	●
1.49	17.90	20.50	3.00	50	**2026-1.49**	●
1.50	18.00	21.00	3.00	50	**2026-1.50**	●
1.51	18.10	21.00	3.00	50	**2026-1.51**	●
1.52	18.30	21.00	3.00	50	**2026-1.52**	●
1.53	18.40	21.00	3.00	50	**2026-1.53**	●
1.54	18.50	21.50	3.00	50	**2026-1.54**	●
1.55	18.60	21.50	3.00	50	**2026-1.55**	●
1.56	18.70	21.50	3.00	50	**2026-1.56**	●
1.57	18.90	21.50	3.00	50	**2026-1.57**	●
1.58	19.00	22.00	3.00	50	**2026-1.58**	●
1.59	19.10	22.00	3.00	50	**2026-1.59**	●
1.60	19.20	22.00	3.00	50	**2026-1.60**	●

D1 h6	L2	L3	D2 h6	L1	Art. N°	z
1.61	19.30	22.00	3.00	50	**2026-1.61**	●
1.62	19.40	22.50	3.00	50	**2026-1.62**	●
1.63	19.60	22.50	3.00	50	**2026-1.63**	●
1.64	19.70	22.50	3.00	50	**2026-1.64**	●
1.65	19.80	22.50	3.00	50	**2026-1.65**	●
1.66	19.90	23.00	3.00	50	**2026-1.66**	●
1.67	20.10	23.00	3.00	50	**2026-1.67**	●
1.68	20.20	23.00	3.00	50	**2026-1.68**	●
1.69	20.30	23.00	3.00	50	**2026-1.69**	●
1.70	20.40	23.50	3.00	50	**2026-1.70**	●
1.71	20.50	23.50	3.00	50	**2026-1.71**	●
1.72	20.70	23.50	3.00	50	**2026-1.72**	●
1.73	20.80	23.50	3.00	50	**2026-1.73**	●
1.74	20.90	24.00	3.00	50	**2026-1.74**	●
1.75	21.00	24.00	3.00	50	**2026-1.75**	●
1.76	21.10	24.00	3.00	50	**2026-1.76**	●
1.77	21.30	24.00	3.00	50	**2026-1.77**	●
1.78	21.40	24.50	3.00	50	**2026-1.78**	●
1.79	21.50	24.50	3.00	50	**2026-1.79**	●
1.80	21.60	25.00	3.00	50	**2026-1.80**	●
1.81	21.70	25.00	3.00	50	**2026-1.81**	●
1.82	21.90	25.00	3.00	50	**2026-1.82**	●
1.83	22.00	25.00	3.00	50	**2026-1.83**	●
1.84	22.10	25.50	3.00	50	**2026-1.84**	●
1.85	22.20	25.50	3.00	50	**2026-1.85**	●
1.86	22.30	25.50	3.00	50	**2026-1.86**	●
1.87	22.50	25.50	3.00	50	**2026-1.87**	●
1.88	22.60	26.00	3.00	50	**2026-1.88**	●
1.89	22.70	26.00	3.00	50	**2026-1.89**	●
1.90	22.80	26.00	3.00	50	**2026-1.90**	●
1.91	22.90	26.00	3.00	50	**2026-1.91**	●
1.92	23.10	26.50	3.00	50	**2026-1.92**	●
1.93	23.20	26.50	3.00	50	**2026-1.93**	●
1.94	23.30	26.50	3.00	50	**2026-1.94**	●
1.95	23.40	26.50	3.00	50	**2026-1.95**	●
1.96	23.50	27.00	3.00	50	**2026-1.96**	●
1.97	23.70	27.00	3.00	50	**2026-1.97**	●
1.98	23.80	27.00	3.00	50	**2026-1.98**	●
1.99	23.90	27.00	3.00	50	**2026-1.99**	●
2.00	24.00	27.00	3.00	50	**2026-2.00**	●

Micro-forets
Mikrobohrer
Micro drills

Ø 0.20 - Ø 1.09 mm

2030



MD VHM HM	λ 35°	5xD1	Z=3	140°	

D1 h6	L2	L3	D2 h6	L1	Art. N°	z
0.20	1.00	1.50	3.00	38	**2030-0.20**	●
0.21	1.05	1.50	3.00	38	**2030-0.21**	●
0.22	1.10	1.60	3.00	38	**2030-0.22**	●
0.23	1.15	1.60	3.00	38	**2030-0.23**	●
0.24	1.20	1.70	3.00	38	**2030-0.24**	●
0.25	1.25	1.70	3.00	38	**2030-0.25**	●
0.26	1.30	1.80	3.00	38	**2030-0.26**	●
0.27	1.35	1.80	3.00	38	**2030-0.27**	●
0.28	1.40	1.90	3.00	38	**2030-0.28**	●
0.29	1.45	1.90	3.00	38	**2030-0.29**	●
0.30	1.50	2.00	3.00	38	**2030-0.30**	●
0.31	1.55	2.00	3.00	38	**2030-0.31**	●
0.32	1.60	2.10	3.00	38	**2030-0.32**	●
0.33	1.65	2.10	3.00	38	**2030-0.33**	●
0.34	1.70	2.20	3.00	38	**2030-0.34**	●
0.35	1.75	2.20	3.00	38	**2030-0.35**	●
0.36	1.80	2.30	3.00	38	**2030-0.36**	●
0.37	1.85	2.30	3.00	38	**2030-0.37**	●
0.38	1.90	2.40	3.00	38	**2030-0.38**	●
0.39	1.95	2.40	3.00	38	**2030-0.39**	●
0.40	2.00	2.50	3.00	38	**2030-0.40**	●
0.41	2.05	2.50	3.00	38	**2030-0.41**	●
0.42	2.10	2.60	3.00	38	**2030-0.42**	●
0.43	2.15	2.60	3.00	38	**2030-0.43**	●
0.44	2.20	2.70	3.00	38	**2030-0.44**	●
0.45	2.25	2.70	3.00	38	**2030-0.45**	●
0.46	2.30	2.80	3.00	38	**2030-0.46**	●
0.47	2.35	2.80	3.00	38	**2030-0.47**	●
0.48	2.40	2.90	3.00	38	**2030-0.48**	●
0.49	2.45	2.90	3.00	38	**2030-0.49**	●
0.50	2.50	3.00	3.00	38	**2030-0.50**	●
0.51	2.55	3.00	3.00	38	**2030-0.51**	●
0.52	2.60	3.10	3.00	38	**2030-0.52**	●
0.53	2.65	3.10	3.00	38	**2030-0.53**	●
0.54	2.70	3.20	3.00	38	**2030-0.54**	●
0.55	2.75	3.20	3.00	38	**2030-0.55**	●
0.56	2.80	3.30	3.00	38	**2030-0.56**	●
0.57	2.85	3.30	3.00	38	**2030-0.57**	●
0.58	2.90	3.40	3.00	38	**2030-0.58**	●
0.59	2.95	3.40	3.00	38	**2030-0.59**	●
0.60	3.00	3.50	3.00	38	**2030-0.60**	●
0.61	3.05	3.50	3.00	38	**2030-0.61**	●
0.62	3.10	3.60	3.00	38	**2030-0.62**	●
0.63	3.15	3.60	3.00	38	**2030-0.63**	●
0.64	3.20	3.70	3.00	38	**2030-0.64**	●
0.65	3.25	3.70	3.00	38	**2030-0.65**	●
0.66	3.30	3.80	3.00	38	**2030-0.66**	●
0.67	3.35	3.80	3.00	38	**2030-0.67**	●
0.68	3.40	3.90	3.00	38	**2030-0.68**	●
0.69	3.45	3.90	3.00	38	**2030-0.69**	●
0.70	3.50	4.00	3.00	38	**2030-0.70**	●
0.71	3.55	4.00	3.00	38	**2030-0.71**	●
0.72	3.60	4.10	3.00	38	**2030-0.72**	●
0.73	3.65	4.10	3.00	38	**2030-0.73**	●
0.74	3.70	4.20	3.00	38	**2030-0.74**	●
0.75	3.75	4.20	3.00	38	**2030-0.75**	●
0.76	3.80	4.30	3.00	38	**2030-0.76**	●
0.77	3.85	4.30	3.00	38	**2030-0.77**	●
0.78	3.90	4.40	3.00	38	**2030-0.78**	●
0.79	3.95	4.40	3.00	38	**2030-0.79**	●
0.80	4.00	4.50	3.00	38	**2030-0.80**	●
0.81	4.05	4.50	3.00	38	**2030-0.81**	●
0.82	4.10	4.60	3.00	38	**2030-0.82**	●
0.83	4.15	4.60	3.00	38	**2030-0.83**	●
0.84	4.20	4.70	3.00	38	**2030-0.84**	●
0.85	4.25	4.70	3.00	38	**2030-0.85**	●
0.86	4.30	4.80	3.00	38	**2030-0.86**	●
0.87	4.35	4.80	3.00	38	**2030-0.87**	●
0.88	4.40	4.90	3.00	38	**2030-0.88**	●
0.89	4.45	4.90	3.00	38	**2030-0.89**	●
0.90	4.50	5.00	3.00	38	**2030-0.90**	●
0.91	4.55	5.00	3.00	38	**2030-0.91**	●
0.92	4.60	5.10	3.00	38	**2030-0.92**	●
0.93	4.65	5.10	3.00	38	**2030-0.93**	●
0.94	4.70	5.20	3.00	38	**2030-0.94**	●
0.95	4.75	5.20	3.00	38	**2030-0.95**	●
0.96	4.80	5.30	3.00	38	**2030-0.96**	●
0.97	4.85	5.30	3.00	38	**2030-0.97**	●
0.98	4.90	5.40	3.00	38	**2030-0.98**	●
0.99	4.95	5.40	3.00	38	**2030-0.99**	●
1.00	5.00	6.50	3.00	38	**2030-1.00**	●
1.01	5.05	6.50	3.00	38	**2030-1.01**	●
1.02	5.10	6.50	3.00	38	**2030-1.02**	●
1.03	5.15	6.50	3.00	38	**2030-1.03**	●
1.04	5.20	6.50	3.00	38	**2030-1.04**	●
1.05	5.25	6.50	3.00	38	**2030-1.05**	●
1.06	5.30	6.50	3.00	38	**2030-1.06**	●
1.07	5.35	7.50	3.00	38	**2030-1.07**	●
1.08	5.40	7.50	3.00	38	**2030-1.08**	●
1.09	5.45	7.50	3.00	38	**2030-1.09**	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

2030

Ø 1.10 - Ø 2.11 mm

Micro-forets
Mikrobohrer
Micro drills

D1 h6	L2	L3	D2 h6	L1	Art. N°	z
1.10	5.50	7.50	3.00	38	**2030-1.10**	●
1.11	5.55	7.50	3.00	38	**2030-1.11**	●
1.12	5.60	7.50	3.00	38	**2030-1.12**	●
1.13	5.65	7.50	3.00	38	**2030-1.13**	●
1.14	5.70	7.50	3.00	38	**2030-1.14**	●
1.15	5.75	7.50	3.00	38	**2030-1.15**	●
1.16	5.80	7.50	3.00	38	**2030-1.16**	●
1.17	5.85	7.50	3.00	38	**2030-1.17**	●
1.18	5.90	8.50	3.00	38	**2030-1.18**	●
1.19	5.95	8.50	3.00	38	**2030-1.19**	●
1.20	6.00	8.50	3.00	38	**2030-1.20**	●
1.21	6.05	8.50	3.00	38	**2030-1.21**	●
1.22	6.10	8.50	3.00	38	**2030-1.22**	●
1.23	6.15	8.50	3.00	38	**2030-1.23**	●
1.24	6.20	8.50	3.00	38	**2030-1.24**	●
1.25	6.25	8.50	3.00	38	**2030-1.25**	●
1.26	6.30	8.50	3.00	38	**2030-1.26**	●
1.27	6.35	8.50	3.00	38	**2030-1.27**	●
1.28	6.40	8.50	3.00	38	**2030-1.28**	●
1.29	6.45	8.50	3.00	38	**2030-1.29**	●
1.30	6.50	8.50	3.00	38	**2030-1.30**	●
1.31	6.55	8.50	3.00	38	**2030-1.31**	●
1.32	6.60	8.50	3.00	38	**2030-1.32**	●
1.33	6.65	9.50	3.00	38	**2030-1.33**	●
1.34	6.70	9.50	3.00	38	**2030-1.34**	●
1.35	6.75	9.50	3.00	38	**2030-1.35**	●
1.36	6.80	9.50	3.00	38	**2030-1.36**	●
1.37	6.85	9.50	3.00	38	**2030-1.37**	●
1.38	6.90	9.50	3.00	38	**2030-1.38**	●
1.39	6.95	9.50	3.00	38	**2030-1.39**	●
1.40	7.00	9.50	3.00	38	**2030-1.40**	●
1.41	7.05	9.50	3.00	38	**2030-1.41**	●
1.42	7.10	9.50	3.00	38	**2030-1.42**	●
1.43	7.15	9.50	3.00	38	**2030-1.43**	●
1.44	7.20	9.50	3.00	38	**2030-1.44**	●
1.45	7.25	9.50	3.00	38	**2030-1.45**	●
1.46	7.30	9.50	3.00	38	**2030-1.46**	●
1.47	7.35	9.50	3.00	38	**2030-1.47**	●
1.48	7.40	9.50	3.00	38	**2030-1.48**	●
1.49	7.45	9.50	3.00	38	**2030-1.49**	●
1.50	7.50	9.50	3.00	38	**2030-1.50**	●
1.51	7.55	10.50	3.00	38	**2030-1.51**	●
1.52	7.60	10.50	3.00	38	**2030-1.52**	●
1.53	7.65	10.50	3.00	38	**2030-1.53**	●
1.54	7.70	10.50	3.00	38	**2030-1.54**	●
1.55	7.75	10.50	3.00	38	**2030-1.55**	●
1.56	7.80	10.50	3.00	38	**2030-1.56**	●
1.57	7.85	10.50	3.00	38	**2030-1.57**	●
1.58	7.90	10.50	3.00	38	**2030-1.58**	●
1.59	7.95	10.50	3.00	38	**2030-1.59**	●
1.60	8.00	10.50	3.00	38	**2030-1.60**	●

D1 h6	L2	L3	D2 h6	L1	Art. N°	z
1.61	8.05	10.50	3.00	38	**2030-1.61**	●
1.62	8.10	10.50	3.00	38	**2030-1.62**	●
1.63	8.15	10.50	3.00	38	**2030-1.63**	●
1.64	8.20	10.50	3.00	38	**2030-1.64**	●
1.65	8.25	10.50	3.00	38	**2030-1.65**	●
1.66	8.30	10.50	3.00	38	**2030-1.66**	●
1.67	8.35	10.50	3.00	38	**2030-1.67**	●
1.68	8.40	10.50	3.00	38	**2030-1.68**	●
1.69	8.45	10.50	3.00	38	**2030-1.69**	●
1.70	8.50	10.50	3.00	38	**2030-1.70**	●
1.71	8.55	11.50	3.00	38	**2030-1.71**	●
1.72	8.60	11.50	3.00	38	**2030-1.72**	●
1.73	8.65	11.50	3.00	38	**2030-1.73**	●
1.74	8.70	11.50	3.00	38	**2030-1.74**	●
1.75	8.75	11.50	3.00	38	**2030-1.75**	●
1.76	8.80	11.50	3.00	38	**2030-1.76**	●
1.77	8.85	11.50	3.00	38	**2030-1.77**	●
1.78	8.90	11.50	3.00	38	**2030-1.78**	●
1.79	8.95	11.50	3.00	38	**2030-1.79**	●
1.80	9.00	11.50	3.00	38	**2030-1.80**	●
1.81	9.05	11.50	3.00	38	**2030-1.81**	●
1.82	9.10	11.50	3.00	38	**2030-1.82**	●
1.83	9.15	11.50	3.00	38	**2030-1.83**	●
1.84	9.20	11.50	3.00	38	**2030-1.84**	●
1.85	9.25	11.50	3.00	38	**2030-1.85**	●
1.86	9.30	11.50	3.00	38	**2030-1.86**	●
1.87	9.35	11.50	3.00	38	**2030-1.87**	●
1.88	9.40	11.50	3.00	38	**2030-1.88**	●
1.89	9.45	11.50	3.00	38	**2030-1.89**	●
1.90	9.50	11.50	3.00	38	**2030-1.90**	●
1.91	9.55	12.50	3.00	38	**2030-1.91**	●
1.92	9.60	12.50	3.00	38	**2030-1.92**	●
1.93	9.65	12.50	3.00	38	**2030-1.93**	●
1.94	9.70	12.50	3.00	38	**2030-1.94**	●
1.95	9.75	12.50	3.00	38	**2030-1.95**	●
1.96	9.80	12.50	3.00	38	**2030-1.96**	●
1.97	9.85	12.50	3.00	38	**2030-1.97**	●
1.98	9.90	12.50	3.00	38	**2030-1.98**	●
1.99	9.95	12.50	3.00	38	**2030-1.99**	●
2.00	10.00	12.50	3.00	38	**2030-2.00**	●
2.01	10.05	12.50	3.00	38	**2030-2.01**	●
2.02	10.10	12.50	3.00	38	**2030-2.02**	●
2.03	10.15	12.50	3.00	38	**2030-2.03**	●
2.04	10.20	12.50	3.00	38	**2030-2.04**	●
2.05	10.25	12.50	3.00	38	**2030-2.05**	●
2.06	10.30	12.50	3.00	38	**2030-2.06**	●
2.07	10.35	12.50	3.00	38	**2030-2.07**	●
2.08	10.40	12.50	3.00	38	**2030-2.08**	●
2.09	10.45	12.50	3.00	38	**2030-2.09**	●
2.10	10.50	12.50	3.00	38	**2030-2.10**	●
2.11	10.55	12.50	3.00	38	**2030-2.11**	●

Micro-forets
Mikrobohrer
Micro drills

Ø 2.12 - Ø 2.99 mm

2030

D1 h6	L2	L3	D2 h6	L1	Art. N°	z
2.12	10.60	12.50	3.00	38	**2030-2.12**	●
2.13	10.65	13.50	3.00	38	**2030-2.13**	●
2.14	10.70	13.50	3.00	38	**2030-2.14**	●
2.15	10.75	13.50	3.00	38	**2030-2.15**	●
2.16	10.80	13.50	3.00	38	**2030-2.16**	●
2.17	10.85	13.50	3.00	38	**2030-2.17**	●
2.18	10.90	13.50	3.00	38	**2030-2.18**	●
2.19	10.95	13.50	3.00	38	**2030-2.19**	●
2.20	11.00	13.50	3.00	38	**2030-2.20**	●
2.21	11.05	13.50	3.00	38	**2030-2.21**	●
2.22	11.10	13.50	3.00	38	**2030-2.22**	●
2.23	11.15	13.50	3.00	38	**2030-2.23**	●
2.24	11.20	13.50	3.00	38	**2030-2.24**	●
2.25	11.25	13.50	3.00	38	**2030-2.25**	●
2.26	11.30	13.50	3.00	38	**2030-2.26**	●
2.27	11.35	13.50	3.00	38	**2030-2.27**	●
2.28	11.40	13.50	3.00	38	**2030-2.28**	●
2.29	11.45	13.50	3.00	38	**2030-2.29**	●
2.30	11.50	13.50	3.00	38	**2030-2.30**	●
2.31	11.55	13.50	3.00	38	**2030-2.31**	●
2.32	11.60	13.50	3.00	38	**2030-2.32**	●
2.33	11.65	13.50	3.00	38	**2030-2.33**	●
2.34	11.70	13.50	3.00	38	**2030-2.34**	●
2.35	11.75	13.50	3.00	38	**2030-2.35**	●
2.36	11.80	13.50	3.00	38	**2030-2.36**	●
2.37	11.85	14.50	3.00	38	**2030-2.37**	●
2.38	11.90	14.50	3.00	38	**2030-2.38**	●
2.39	11.95	14.50	3.00	38	**2030-2.39**	●
2.40	12.00	14.50	3.00	38	**2030-2.40**	●
2.41	12.05	14.50	3.00	38	**2030-2.41**	●
2.42	12.10	14.50	3.00	38	**2030-2.42**	●
2.43	12.15	14.50	3.00	38	**2030-2.43**	●
2.44	12.20	14.50	3.00	38	**2030-2.44**	●
2.45	12.25	14.50	3.00	38	**2030-2.45**	●
2.46	12.30	14.50	3.00	38	**2030-2.46**	●
2.47	12.35	14.50	3.00	38	**2030-2.47**	●
2.48	12.40	14.50	3.00	38	**2030-2.48**	●
2.49	12.45	14.50	3.00	38	**2030-2.49**	●
2.50	12.50	14.50	3.00	38	**2030-2.50**	●
2.51	12.55	14.50	3.00	38	**2030-2.51**	●
2.52	12.60	14.50	3.00	38	**2030-2.52**	●
2.53	12.65	14.50	3.00	38	**2030-2.53**	●
2.54	12.70	14.50	3.00	38	**2030-2.54**	●
2.55	12.75	14.50	3.00	38	**2030-2.55**	●
2.56	12.80	14.50	3.00	38	**2030-2.56**	●
2.57	12.85	14.50	3.00	38	**2030-2.57**	●
2.58	12.90	14.50	3.00	38	**2030-2.58**	●
2.59	12.95	14.50	3.00	38	**2030-2.59**	●
2.60	13.00	14.50	3.00	38	**2030-2.60**	●
2.61	13.05	14.50	3.00	38	**2030-2.61**	●
2.62	13.10	14.50	3.00	38	**2030-2.62**	●

D1 h6	L2	L3	D2 h6	L1	Art. N°	z
2.63	13.15	14.50	3.00	38	**2030-2.63**	●
2.64	13.20	14.50	3.00	38	**2030-2.64**	●
2.65	13.25	14.50	3.00	38	**2030-2.65**	●
2.66	13.30	16.50	3.00	38	**2030-2.66**	●
2.67	13.35	16.50	3.00	38	**2030-2.67**	●
2.68	13.40	16.50	3.00	38	**2030-2.68**	●
2.69	13.45	16.50	3.00	38	**2030-2.69**	●
2.70	13.50	16.50	3.00	38	**2030-2.70**	●
2.71	13.55	16.55	3.00	38	**2030-2.71**	●
2.72	13.60	16.50	3.00	38	**2030-2.72**	●
2.73	13.65	16.50	3.00	38	**2030-2.73**	●
2.74	13.70	16.50	3.00	38	**2030-2.74**	●
2.75	13.75	16.50	3.00	38	**2030-2.75**	●
2.76	13.80	16.50	3.00	38	**2030-2.76**	●
2.77	13.85	16.50	3.00	38	**2030-2.77**	●
2.78	13.90	16.50	3.00	38	**2030-2.78**	●
2.79	13.95	16.50	3.00	38	**2030-2.79**	●
2.80	14.00	16.50	3.00	38	**2030-2.80**	●
2.81	14.05	16.50	3.00	38	**2030-2.81**	●
2.82	14.10	16.50	3.00	38	**2030-2.82**	●
2.83	14.15	16.50	3.00	38	**2030-2.83**	●
2.84	14.20	16.50	3.00	38	**2030-2.84**	●
2.85	14.25	16.50	3.00	38	**2030-2.85**	●
2.86	14.30	16.50	3.00	38	**2030-2.86**	●
2.87	14.35	16.50	3.00	38	**2030-2.87**	●
2.88	14.40	16.50	3.00	38	**2030-2.88**	●
2.89	14.45	16.50	3.00	38	**2030-2.89**	●
2.90	14.50	16.50	3.00	38	**2030-2.90**	●
2.91	14.55	16.50	3.00	38	**2030-2.91**	●
2.92	14.60	16.50	3.00	38	**2030-2.92**	●
2.93	14.65	16.50	3.00	38	**2030-2.93**	●
2.94	14.70	16.50	3.00	38	**2030-2.94**	●
2.95	14.75	16.50	3.00	38	**2030-2.95**	●
2.96	14.80	16.50	3.00	38	**2030-2.96**	●
2.97	14.85	16.50	3.00	38	**2030-2.97**	●
2.98	14.90	16.50	3.00	38	**2030-2.98**	●
2.99	14.95	16.50	3.00	38	**2030-2.99**	●

Autre revêtement sur demande / Andere Beschichtung auf Anfrage / Other coating on request

Informations techniques et symboles
Technische Informationen und Symbole
Technical information and symbols

60°
90°
120°
Angle
Winkel
Angle

λ 25°
Angle d'hélice
Spiralwinkel
Helix angle

λ 36°
λ 38°
λ 40°
Hélice différente
Unterschiedliche Spirale
Different helix

λ 35°/38°
Hélice progressive
Progressive Spirale
Progressive helix

Z
Nombre de dents
Anzahl der Zähne
Number of teeth

2xD1
Rapport longueur-diamètre
Länge-Durchmesser Verhältnis
Length to diameter ratio

Lèvres, affûtage à facettes
Schneiden, Facettenschärfen
Flutes, sharpening with facets

Taillage demi-lune
Kanonenbohrer Spitze
Gundrills tip

Taillage renforcé 3/4
3/4 genuteter Fräser
3/4 straight fluted

Usinage radial, diagonal et axial
Radiale, diagonale und axiale Bearbeitung
Radial, diagonal and axial machining

Usinage radial et axial
Radiale und axiale Bearbeitung
Radial and axial machining

Chanfrein
Fase
Chamfer

Sharp Corner
Coin vif
Scharfkantige Ecke
Sharp corner

Fraises hémisphériques
Radiusfräser
End mills with ball nose

Radius Corner
Rayon de coin
Eckradius
Corner radius

Dents avec coupe centrale
Zähne Zentrumschnitt
Teeth center cutting

Denture décalée
Versetzte Verzahnung
Alterned teeth

DHD
Denture à pas irrégulier, hélice différente
Ungleiche Teilung, unterschiedliche Spirale
Uneven tooth pitch, different helix

DHP
Denture à pas irrégulier, hélice progressive
Ungleiche Teilung, progressive Spirale
Uneven tooth pitch, progressive helix

Usinage torique
Torusbearbeitung
Toroidal machining

MD
VHM
HM
Métal dur
Vollhartmetall
Hard metal

Diamètre outil Werkzeugdurchmesser Tool diametre	D (mm)		
Nombre de dents Zähnezahl Number of teeth	Z		
Profondeur de coupe Schnitttiefe Cutting depth	ap (mm)		
Largeur de coupe Schnittbreite Cutting width	ae (mm)		
Vitesse de coupe Schnittgeschwindigkeit Cutting speed	(m/min)	**Vc =**	$\frac{D \times \pi \times n}{1000}$
Nombre de tours Umdrehungen Rotations	(U/min)	**n =**	$\frac{Vc \times 1000}{\pi \times D}$
Avance par dent Vorschub pro Zahn Cutting feed per teeth	(mm/tooth)	**fz =**	$\frac{Vf}{n \times Z}$
Vitesse d'avance Vorschubgeschwindigkeit Feed rate	(mm/min)	**Vf =**	**fz x Z x n**
Débit d'enlèvement de copeaux Spanvolumen Chip flow rate	(mm^3/min)	**Q =**	**ap x ae x Vf**
Avance par tour Vorschub pro Umdrehung Cutting feed per rotation	(mm/U)	**f =**	$\frac{Vf}{n}$

Nos propositions techniques s'appliquent à la plupart des utilisations courantes.
N'hésitez pas à nous contacter pour des conseils plus précis.

Diese technische Empfehlungen gelten für die Mehrzahl der Standardanwendungen.
Unsere Techniker beraten Sie gerne für spezifische Anliegen.

These technical propositions apply to the majority of standard usages.
Do not hesitate to contact us for more specific advices.

CIRCO-Line

APPLITEC
CUTTING TOOLS

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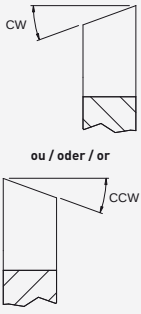
Fraises circulaires en métal dur - denture revêtue pour INOX VHM-Kreissägeblätter - Verzahnung beschichtet für INOX Solid carbide slitting saws - Teeth coated for INOX	1104		> 17.14
Fraises circulaires en métal dur avec un biais - CW-CCW VHM-Kreissägeblätter mit Schräge - CW-CCW Solid carbide angled slitting saws - CW-CCW	1105		> 17.16
Disques en métal dur rectifiés Fertig geschliffene VHM-Ronden Fully ground solid carbide discs	1106		> 17.18
Tasseaux porte-fraise avec serrage avant Fräsdorne mit vorderer Klemmung Milling arbors with front clamping	2810 / 2811 / 2815		> 17.22
Tasseaux porte-fraise avec serrage arrière Fräsdorne mit rückseitiger Klemmung Milling arbors with rear clamping	2820 / 1820		> 17.23
Pièces de rechange et accessoires Ersatzteile und Zubehöre Spare parts and accessories			> 17.24

1 1 0 1 - 15 / 5 - 0.25 Z20 - CW
ou / oder / or

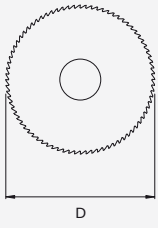
Nombre de dents
Zähnezahl
Number of teeth

Aucun biais
Ohne Fase
No angle

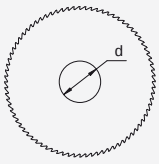
CW / CCW



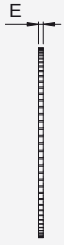
Diamètre extérieur
Aussendurchmesser
Outer diameter



Diamètre intérieur
Innendurchmesser
Inner diameter

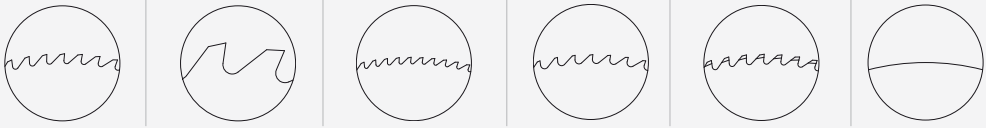


Épaisseur
Dicke
Thickness



Types de dentures
Verzahnungsarten
Types of toothings

1101	1102	1103	1104	1105	1106
Denture fine	**Denture grossière**	**Denture extra-fine**	**Denture INOX**	**Denture avec biais**	**Disque rectifié**
Feine Verzahnung	Grobe Verzahnung	Extra feine Verzahnung	INOX Verzahnung	Schrägverzahnung	Geschliffene
Fine teeth	Large teeth	Extra fine teeth	INOX teeth	Angled toothing	Ground disc



Applitec série 1100 Gamme de fraises circulaires de haute qualité
Applitec 1100 Serie Hochwertige Kreissägeblätter-Serie
Applitec 1100 series High quality slitting saws series

Définition du nombre de dents
Empfohlene Zähnezahl
Recommended number of teeth

Idéalement 2-3 dents en contact

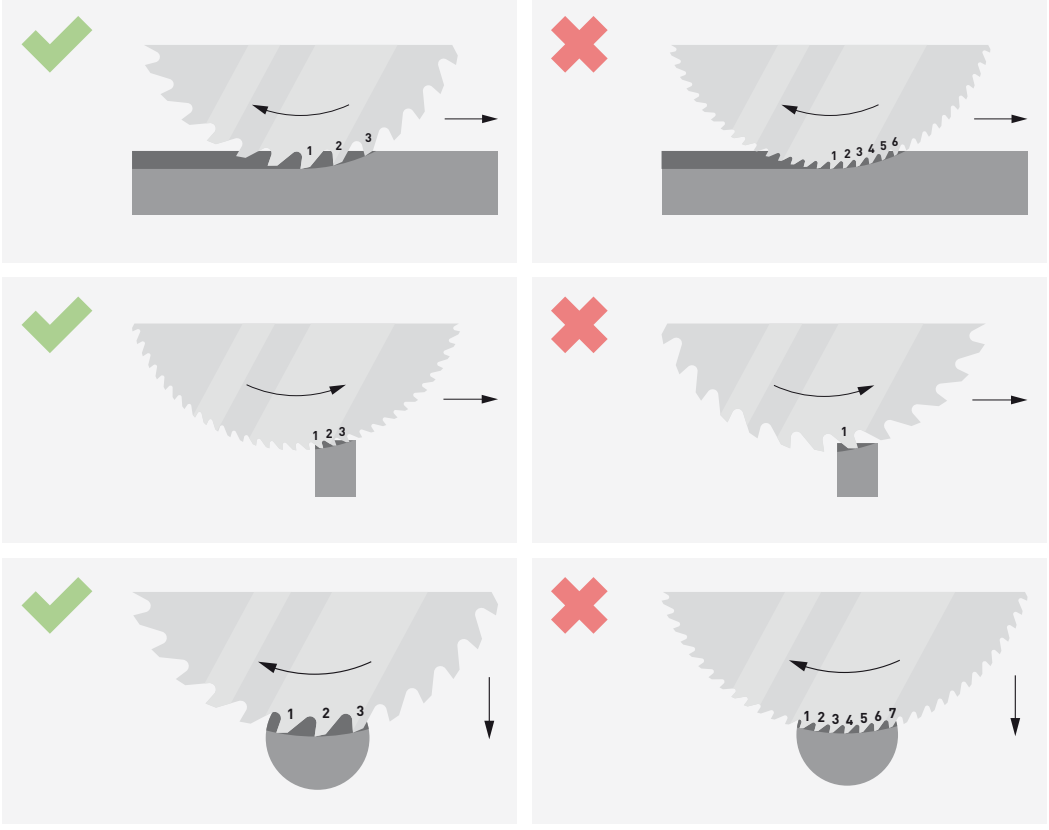
Im Idealfall 2-3 Zähne im Einsatz

Ideally 2-3 teeth in contact

Trop de dents = avance trop faible par dent / pas assez de place pour le copeau
Trop peu de dents = risque de vibration / usure prématurée

Zu viele Zähne = zu geringer Vorschub pro Zahn / zu kleiner Spanraum
Zu wenig Zähne = Vibrationen / Verschleissrisiko

Too many teeth = feed too low per tooth / not enough place for the chips
Not enough teeth = vibration / risk of quick wearout



En complément de l'offre présentée dans le catalogue, des réalisations spéciales peuvent également être effectuées sur demande.

Ergänzend zu unserem Katalogsortiment sind auf Anfrage auch Sonderanfertigungen möglich.

In addition to our catalog range, special executions can also be carried out upon request.

Alésage avec entrée de clavette

Bohrung mit Keilnute

Bore with keyway

Train de fraises

Spezielle Kreissägeblätter im Satz

Special slitting saws in set

Denture à rayon

Radiusfräser

Radius tooth

Denture forme B

Zahnform B

Tooth form B

Denture alternée forme W

Wechselverzahnung Form W

Alternate teeth form W

Denture isocèle

Prismenfräser

Biconical slitting saws

Denture hélicoïdale

Schrägverzahnung

Helical teeth

Revêtement sur demande

Beschichtung auf Anfrage

Coating on request

Denture conique 1 taille

Winkelfräser 1 Schnitt

Conical single cut saw

Denture conique 2 tailles

Winkelfräser 2 Schnitt

Conical double cut saw

Conseils d'utilisation
Anwendungsempfehlungen
Application recommendations

Matière Werkstoff Material		Fraises circulaires en métal dur VHM-Kreissägeblätter Solid carbide slitting saws Lubrifiant* Kühlung* Coolant*	VC (m/min)	Choix de la denture / avance Verzahnungswahl / Vorschub Teeth selection / cutting feed
Acier de décolletage Automatenstahl Free-cutting steel	P	O / E	120 - 240	**Type 1101 / 1104 / 1105** • Pour usinage peu profond ou longueur à fendre faible. Avance par dent : 0.005 - 0.05** • Für geringe Bearbeitungstiefen oder kurze Schlitzlängen. Vorschub pro Zahn : 0.005 - 0.05** • For low machining depth or short slots. Feed per tooth : 0.005 - 0.05**
Acier Stahl Steel	< 600 N/mm² P	O / E	100 - 200	
Acier Stahl Steel	< 800 N/mm² P	O / E	80 - 160	
Acier Stahl Steel	< 1000 N/mm² P	O / E	60 - 120	
Acier Stahl Steel	> 1000 N/mm² P	O / E	40 - 80	**Type 1102** • Pour usinage profond ou grande longueur à fendre. Avance par dent : 0.01 - 0.1** • Für grosse Bearbeitungstiefen oder grosse Schlitzlängen. Vorschub pro Zahn : 0.01 - 0.1** • For deep machining or long slots. Feed per tooth : 0.01 - 0.1**
Fonte Gusseisen Cast iron	K	A / E	60 - 120	
Acier inoxydable Rostfreistahl Stainless steel	M	O / E	50 - 100	
Aluminium Si < 12 %	N	O / E	150 - 600	**Type 1103** • Pour usinage de pièces fragiles ou fines. Avance par dent : 0.002 - 0.02** • Für die Bearbeitung von empfindlichen oder dünnwandigen Werkstücken. Vorschub pro Zahn : 0.002 - 0.02** • For machining of fragile or thin workpieces. Feed per tooth : 0.002 - 0.02**
Aluminium Si > 12 %	N	O /E	80 - 300	
Cuivre, laiton, bronze Kupfer, Messing, Bronze Copper, brass, bronze	N	A / O / E	80 - 300	
Thermoplastique Thermoplaste Thermoplastics	N	A	200 - 700	
Duroplastique Duroplaste Duroplastics	N	A	150 - 600	** selon la matière, l'épaisseur ainsi que la rigidité globale ** je nach Werkstoff, Dicke und Gesamtstarrheit ** according to material, thickness and global rigidity
Acier réfractaire Warmfester Stahl Heat resistant steel	S	O / E	25 - 60	
Titane Titan Titanium	S	O / E	30 - 60	

* O = huile de coupe / Schneidöl / cutting oil
* E = Emulsion
* A = sec (air comprimé) / Trocken (Pressluft) / dry (air)

avec revêtement, augmenter les valeurs de 20 %
mit Beschichtung, Daten um 20 % erhöhen
with coating, increase data by 20 %

MAXINOX

Revêtement PVD
PVD Beschichtung
PVD coating

TF F **M** E

P ★★★★☆
M ★★★★★
N ★☆☆☆☆
S ★★☆☆☆

- 1er choix pour l'usinage des aciers inoxydables
- recommandé également pour les aciers alliés contenant : chrome nickel, vanadium, molybdène, ...

- erste Wahl für die Bearbeitung von rostfreiem Stahl
- auch empfohlen für legierte Stähle mit Chrom-Nickel, Vanadium, Molybdän, ...

- first choice for stainless machining
- also recommended for alloy steels with : Chrome-Nickel, Vanadium, Molybdenum, ...

Denture fine
Feine Verzahnung
Fine teeth

DIN 1837

- Pour usinage peu profond ou longueur à fendre faible
- Avance par dent : 0.005 - 0.05 mm
- Revêtement sur demande

- Für geringe Bearbeitungstiefen oder kurze Schlitzlängen
- Vorschub pro Zahn : 0.005 - 0.05 mm
- Beschichtung auf Anfrage

- For low machining depth or short slots
- Feed per tooth : 0.005 - 0.05 mm
- Coating on request

Fraises circulaires en métal dur
VHM-Kreissägeblätter
Solid carbide slitting saws

MD
VHM
HM

Art. N° ex :
1101-20/5-1.7 Z32

Denture fine
Feine Verzahnung
Fine teeth

DIN 1837

D js12	**15**	**20**	**25**	**30**	**40**	**50**	**63**	**80**	**100**	**125**	**160**	**D js12**
d H7	5	5	8	8	10	13	16	22	22	22	32	d H7
Epaisseur Dicke Thickness E ±0.01	Z = Nombre de dents Zähnezahl Number of teeth											**Epaisseur** Dicke Thickness E ±0.01
0.10	64	80	80	100	128							**0.10**
0.15	64	80	80	100	128							**0.15**
0.20	64	80	80	100	128	128	160					**0.20**
0.25	64	64	80	100	100	128	128					**0.25**
0.30	64	64	80	80	100	128	128	160				**0.30**
0.35	64	64	64	80	100	100	128	160				**0.35**
0.40	64	64	64	80	100	100	128	160				**0.40**
0.45	48	48	64	80	80	100	128	128				**0.45**
0.50	48	48	64	80	80	100	128	128	160			**0.50**
0.60	48	48	64	64	80	100	100	128	160	160		**0.60**
0.70	48	48	48	64	80	80	100	128	128	160		**0.70**
0.80	40	40	48	64	80	80	100	128	128	160		**0.80**
0.90	40	40	48	64	64	80	100	100	128	160		**0.90**
1.00	40	40	48	64	64	80	100	100	128	160	160	**1.00**
1.10	40	40	48	48	64	80	80	100	128	128		**1.10**
1.20	40	40	48	48	64	80	80	100	128	128	160	**1.20**
1.30	40	40	40	48	64	64	80	100	100			**1.30**
1.40	40	40	40	48	64	64	80	100	100	128		**1.40**
1.50	40	40	40	48	64	64	80	100	100	128	160	**1.50**
1.60	40	40	40	48	64	64	80	100	100	128	160	**1.60**
1.70	40	32	40	48	48	64	80	80	100			**1.70**
1.80	40	32	40	48	48	64	80	80	100	128	128	**1.80**
1.90	40	32	40	48	48	64	80	80	100			**1.90**
2.00	40	32	40	48	48	64	80	80	100	128	128	**2.00**
2.50	40	32	40	40	48	64	64	80	100	100	128	**2.50**
3.00	40	32	32	40	48	48	64	80	80	100	128	**3.00**
3.50	24	24	32	40	40	48	64	64	80	100		**3.50**
4.00	24	24	32	40	40	48	64	64	80	100		**4.00**
5.00	24	24	32	32	40	48	48	64	80	100		**5.00**
6.00	24	24	24	32	40	40	48	64	64	100		**6.00**

Denture grossière
Grobe Verzahnung
Large teeth

DIN 1838

- Pour usinage profond ou grande longueur à fendre
- Avance par dent : 0.01 - 0.1 mm
- Revêtement sur demande

- Für grosse Bearbeitungstiefen oder grosse Schlitzlängen
- Vorschub pro Zahn : 0.01 - 0.1 mm
- Beschichtung auf Anfrage

- For deep machining or long slots
- Feed per tooth : 0.01 - 0.1 mm
- Coating on request

Fraises circulaires en métal dur
VHM-Kreissägeblätter
Solid carbide slitting saws

1102

MD
VHM
HM

Art. N° ex :
1102-40/10-0.8 Z32

Denture grossière
Grobe Verzahnung
Large teeth

DIN 1838

D js12	**15**	**20**	**25**	**30**	**40**	**50**	**63**	**80**	**100**	**125**	**160**	**D js12**
d H7	5	5	8	8	10	13	16	22	22	22	32	d H7
Epaisseur Dicke Thickness E ±0.01	Z = Nombre de dents Zähnezahl Number of teeth											**Epaisseur** Dicke Thickness E ±0.01
0.20	20	20	20	30	40							**0.20**
0.25	20	20	20	30	40							**0.25**
0.30	20	20	20	30	40		64					**0.30**
0.40	20	20	20	30	40	48	64					**0.40**
0.50	20	20	20	30	40	48	64					**0.50**
0.60	20	20	20	30	40	48	48	64	80			**0.60**
0.70	20	20	20	30	40	40	48	64	64			**0.70**
0.80	20	20	20	24	32	40	48	64	64	80		**0.80**
0.90	20	20	20	24	32	40	48	48	64	80		**0.90**
1.00	20	20	20	24	32	40	48	48	64	80	80	**1.00**
1.20	20	20	20	24	32	40	40	48	64	64	80	**1.20**
1.50	20	20	20	24	32	32	40	48	48	64	80	**1.50**
1.60	20	20	20	24	32	32	40	48	48	64		**1.60**
1.80	20	20	20	24	24	32	40	40	48	64		**1.80**
2.00	20	20	20	24	24	32	40	40	48	64	80	**2.00**
2.50	20	20	20	24	24	32	32	40	48	48	80	**2.50**
3.00	20	20	20	24	24	24	32	40	40	48	64	**3.00**
4.00	20	20	20	24	20	24	32	32	40	48		**4.00**
5.00	20	20	20	24	20	24	24	32	40	40		**5.00**
6.00	20	20	20	24	20	20	24	32	32	40		**6.00**

Denture extra-fine
Extra feine Verzahnung
Extra fine teeth

- Pour usinage de pièces fragiles ou fines
- Avance par dent : 0.002 - 0.03 mm
- Idéal pour le décolletage
- Revêtement sur demande
- Für die Bearbeitung von empfindlichen oder dünnwandigen Werkstücken
- Vorschub pro Zahn : 0.002 - 0.03 mm
- Für Langdrehautomaten besonders empfehlenswert
- Beschichtung auf Anfrage
- For machining of fragile or thin workpieces
- Feed per tooth : 0.002 - 0.03 mm
- Recommended on automatic lathes
- Coating on request

MD
VHM
HM

Art. N° ex :
1103-15/5-0.2 Z80

Denture extra-fine
Extra feine Verzahnung
Extra fine teeth

D js12	**8**	**10**	**12**	**15**	**D js12**
d H7	3	3	5	5	d H7
Epaisseur Dicke Thickness E ±0.005	Z = Nombre de dents Zähnezahl Number of teeth				**Epaisseur** Dicke Thickness E ±0.005
0.10	48	64	64	80	**0.10**
0.11	48	64	64	80	**0.11**
0.12	48	64	64	80	**0.12**
0.13	48	64	64	80	**0.13**
0.14	48	64	64	80	**0.14**
0.15	48	64	64	80	**0.15**
0.16	48	64	64	80	**0.16**
0.17	48	64	64	80	**0.17**
0.18	48	64	64	80	**0.18**
0.19	48	64	64	80	**0.19**
0.20	48	64	64	80	**0.20**

Fraises circulaires en métal dur
VHM-Kreissägeblätter
Solid carbide slitting saws

1103

Denture extra-fine
Extra feine Verzahnung
Extra fine teeth

D js12	8	10	12	15	20	20	20	25	25	25	30	32	D js12
d H7	3	3	5	5	5	5	6	5	6	8	8	8	d H7
Epaisseur Dicke Thickness E ±0.01	Z = Nombre de dents Zähnezahl Number of teeth												**Epaisseur** Dicke Thickness E ±0.01
0.10	**	**	**	**	*	100	80	80			*		**0.10**
0.15	**	**	**	**	*	100	80	80	100	100	*	80	**0.15**
0.20	**	**	**	**	*	100	80	80	100	100	*	80	**0.20**
0.25	48	64	64	80	80	100	80	80	100	100	*	80	**0.25**
0.30	48	64	64	80	80	100	80	80	100	100	100	80	**0.30**
0.35	48	64	64	80	80		80	80	100	100	100	80	**0.35**
0.40	48	64	64	80	80	100	80	80	100	100	100	80	**0.40**
0.50	48	64	64	80	80	100	80	80	100	100	100	80	**0.50**
0.60	48	64	64	80	80		80	80	100	100	100	80	**0.60**
0.70	48	64	64	80	80		80	80	100	100	100	80	**0.70**
0.80	48	64	64	80	80		80	80	100	100	100	80	**0.80**
0.90	48	64	64	80	80		80	80	100	100	100	80	**0.90**
1.00	48	64	64	80	80		80	80	100	100	100	80	**1.00**
1.20				80	80		80	80	100	100	100	80	**1.20**
1.50				80	80		80	80	100	100	100	80	**1.50**
2.00				80	80		80	80	100	100	100	80	**2.00**
2.50				80	80		80	80	100	100	100	80	**2.50**
3.00				80	80		80	80	100	100	100	80	**3.00**

D js12	35	40	40	40	40	45	45	50	50	63	80	D js12
d H7	8	8	8	10	10	8	8	10	13	16	16	d H7
0.10												**0.10**
0.15	96	100	160	100	160	100	160					**0.15**
0.20	96	100	160	100	160	100	160	100				**0.20**
0.25	96	100	160	*	160	100	160	100	120	120		**0.25**
0.30	96	100	160	*	160	100	160	100	120	120		**0.30**
0.35	96	100	160	*	160	100	160	100	120	120		**0.35**
0.40	96	100	160	*	160	100	160	100	120	120		**0.40**
0.50	96	100	160	100	160	100	160	100	120	120	128	**0.50**
0.60	96	100	160	100	160	100	160	100	120	120	128	**0.60**
0.70	96	100	160	100	160	100	160	100	120	120	128	**0.70**
0.80	96	100	160	100	160	100	160	100	120	120	128	**0.80**
0.90	96	100	160	100	160	100	160	100	120	120	128	**0.90**
1.00	96	100	160	100	160	100	160	100	120	120	128	**1.00**
1.20	96	100	160	100	160	100	160	100	120	120	128	**1.20**
1.50	96	100	160	100	160	100	160	100	120	120	128	**1.50**
2.00	96	100	160	100	160	100	160	100	120	120	128	**2.00**
2.50	96	100	160	100	160	100	160	100	120	120	128	**2.50**
3.00	96	100	160	100	160	100	160	100	120	120	128	**3.00**

** voir page 17.12 / siehe Seite 17.12 / see page 17.12
* voir type 1101 / siehe Typ 1101 / see type 1101

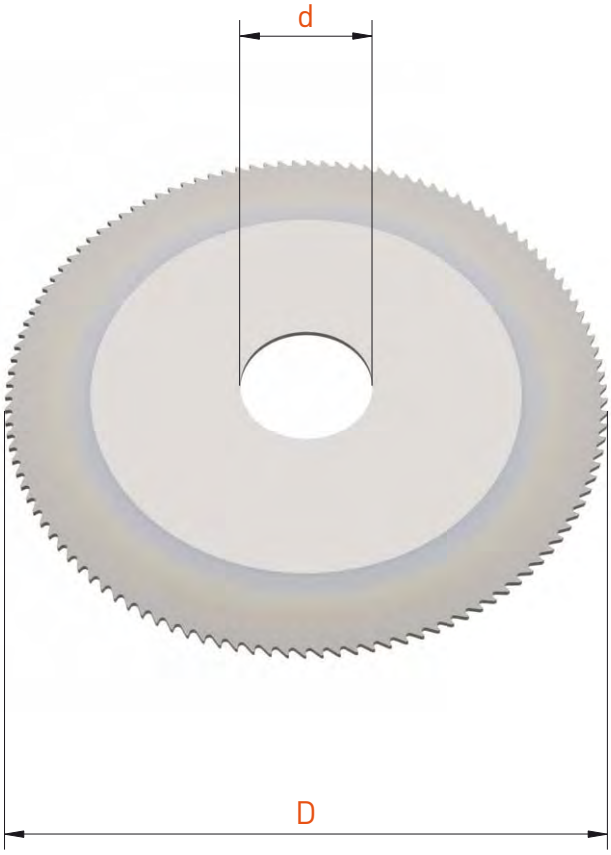
1104

Fraises circulaires en métal dur optimisées pour INOX
VHM-Kreissägeblätter mit optimierter INOX-Verzahnung
Solid carbide slitting saws with optimized INOX teeth

Denture fine
Feine Verzahnung
Fine teeth

DIN 1837

- Pour usinage peu profond ou longueur à fendre faible
- Avance par dent : 0.005 - 0.05 mm
- Für geringe Bearbeitungstiefen oder kurze Schlitzlängen
- Vorschub pro Zahn : 0.005 - 0.05 mm
- For low machining depth or short slots
- Feed per tooth : 0.005 - 0.05 mm



Fraises circulaires en métal dur optimisées pour INOX
VHM-Kreissägeblätter mit optimierter INOX-Verzahnung
Solid carbide slitting saws with optimized INOX teeth

MD
VHM
HM

Art. N° ex :
1104-63/16-0.8 Z80-MAXINOX

		Denture fine Feine Verzahnung Fine teeth		DIN 1837	
D js12	**63**	**80**	**100**	**D js12**	
d H7	16	22	22	d H7	
Epaisseur Dicke Thickness E ±0.01	Z = Nombre de dents Zähnezahl Number of teeth			**Epaisseur** Dicke Thickness E ±0.01	MAXINOX
0.80	80	100	120	**0.80**	●
1.00	80	100	120	**1.00**	●

Fraises circulaires en métal dur avec un biais - CW-CCW
VHM-Kreissägeblätter mit Schräge - CW-CCW
Solid carbide angled slitting saws - CW-CCW

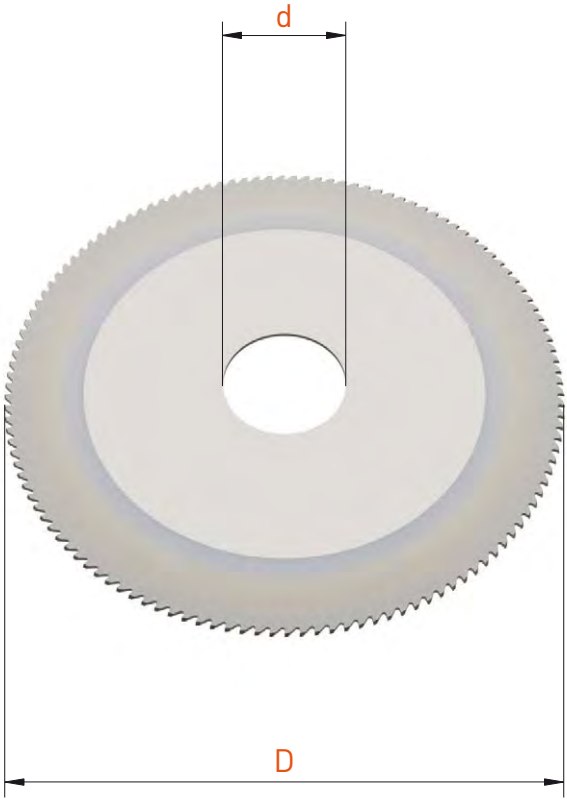
Denture fine
Feine Verzahnung
Fine teeth

DIN 1837

- Pour usinage peu profond ou longueur à fendre faible
- Avance par dent : 0.005 - 0.05 mm
- Autre revêtement sur demande

- Für geringe Bearbeitungstiefen oder kurze Schlitzlängen
- Vorschub pro Zahn : 0.005 - 0.05 mm
- Andere Beschichtung auf Anfrage

- For low machining depth or short slots
- Feed per tooth : 0.005 - 0.05 mm
- Other coating on request

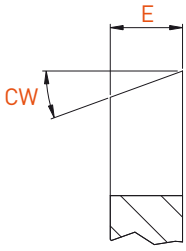


Fraises circulaires en métal dur avec un biais - CW-CCW
VHM-Kreissägeblätter mit Schräge - CW-CCW
Solid carbide angled slitting saws - CW-CCW

MD
VHM
HM

CW

Art. N° ex :
1105-100/22-0.6-CW20 Z160-N

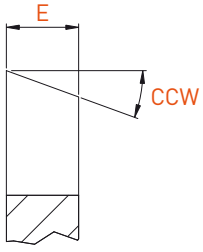


	Denture fine Feine Verzahnung Fine teeth			DIN 1837	
D js12	**63**	**80**	**100**		
d H7	16	22	22		
CW	20°	20°	20°		
Epaisseur Dicke Thickness E ±0.01	Z = Nombre de dents Zähnezahl Number of teeth			N	MAXINOX
0.60	100	128	160	●	●
0.80	100	128	128	●	●
1.00	100	100	128	●	●
1.20	80	100	128	●	●

MD
VHM
HM

CCW

Art. N° ex :
1105-100/22-0.6-CCW20 Z160-N



	Denture fine Feine Verzahnung Fine teeth			DIN 1837	
D js12	**63**	**80**	**100**		
d H7	16	22	22		
CCW	20°	20°	20°		
Epaisseur Dicke Thickness E ±0.01	Z = Nombre de dents Zähnezahl Number of teeth			N	MAXINOX
0.60	100	128	160	●	●
0.80	100	128	128	●	●
1.00	100	100	128	●	●
1.20	80	100	128	●	●

1106

Disques en métal dur rectifiés
Fertig geschliffene VHM-Ronden
Fully ground solid carbide discs

Prêt pour le taillage de la denture
Bereit zum Verzahnen
Ready for teeth grinding

- Finition poli miroir des deux faces avec dépouille
- Alésage tolérance H7
- Diamètre surdimensionné ~0.15 mm

- Hochglanzpoliert beidseitig mit Hohlschliff
- H7 Bohrung Toleranz
- Aussendurchmesser mit ~0.15 mm Übermass

- Mirror finish on both sides with clearance
- Bore with H7 tolerance
- Outside diameter with ~0.15 mm oversize

Disques en métal dur rectifiés
Fertig geschliffene VHM-Ronden
Fully ground solid carbide discs

Ø 8-35 mm

1106

MD
VHM
HM

Art. N° ex:
1106-20/6-0.8

Prêt pour le taillage de la denture
Bereit zum Verzahnen
Ready for teeth grinding

D +0.20/+0.10	8	10	12	15	20	20	25	25	25	30	32	35	D +0.20/+0.10
d H7	3	3	5	5	5	6	5	6	8	8	8	8	d H7
Epaisseur Dicke Thickness E ±0.01	**Epaisseurs et alésages spéciaux sur demande** Andere Dicken und Bohrungen auf Anfrage Other thicknesses and bores on request												**Epaisseur** Dicke Thickness E ±0.01
0.10	●	●	●	●	●	●	●	●	●	●			**0.10**
0.15	●	●	●	●	●	●	●	●	●	●	●	●	**0.15**
0.20	●	●	●	●	●	●	●	●	●	●	●	●	**0.20**
0.25	●	●	●	●	●	●	●	●	●	●	●	●	**0.25**
0.30	●	●	●	●	●	●	●	●	●	●	●	●	**0.30**
0.35	●	●	●	●	●	●	●	●	●	●	●	●	**0.35**
0.40	●	●	●	●	●	●	●	●	●	●	●	●	**0.40**
0.45				●	●	●	●	●	●	●		●	**0.45**
0.50	●	●	●	●	●	●	●	●	●	●	●	●	**0.50**
0.60	●	●	●	●	●	●	●	●	●	●	●	●	**0.60**
0.70	●	●	●	●	●	●	●	●	●	●	●	●	**0.70**
0.80	●	●	●	●	●	●	●	●	●	●	●	●	**0.80**
0.90	●	●	●	●	●	●	●	●	●	●	●	●	**0.90**
1.00	●	●	●	●	●	●	●	●	●	●	●	●	**1.00**
1.10				●	●				●	●			**1.10**
1.20				●	●	●	●	●	●	●	●	●	**1.20**
1.30				●	●				●	●			**1.30**
1.40				●	●				●	●			**1.40**
1.50			●	●	●	●	●	●	●	●	●	●	**1.50**
1.60				●	●				●	●			**1.60**
1.70				●	●				●	●			**1.70**
1.80				●	●				●	●			**1.80**
1.90				●	●				●	●			**1.90**
2.00				●	●	●	●	●	●	●	●	●	**2.00**
2.50				●	●	●	●	●	●	●	●	●	**2.50**
3.00				●	●	●	●	●	●	●	●	●	**3.00**
3.50													**3.50**
4.00													**4.00**
5.00													**5.00**
6.00													**6.00**

1106

Disques en métal dur rectifiés
Fertig geschliffene VHM-Ronden
Fully ground solid carbide discs

Prêt pour le taillage de la denture
Bereit zum Verzahnen
Ready for teeth grinding

- Finition poli miroir des deux faces avec dépouille
- Alésage tolérance H7
- Diamètre surdimensionné ~0.15 mm

- Hochglanzpoliert beidseitig mit Hohlschliff
- H7 Bohrung Toleranz
- Aussendurchmesser mit ~0.15 mm Übermass

- Mirror finish on both sides with clearance
- Bore with H7 tolerance
- Outside diameter with ~0.15 mm oversize

Disques en métal dur rectifiés
Fertig geschliffene VHM-Ronden
Fully ground solid carbide discs

Ø 40-160 mm

1106

MD
VHM
HM

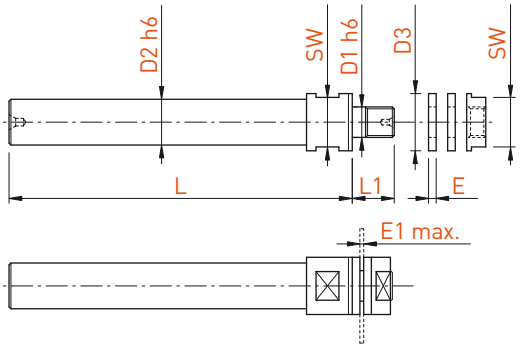
Art. N° ex:
1106-63/16-0.35

Prêt pour le taillage de la denture
Bereit zum Verzahnen
Ready for teeth grinding

D +0.20/+0.10	40	40	45	50	50	63	80	80	100	125	160	160	D +0.20/+0.10
d H7	8	10	8	10	13	16	16	22	22	22	22	32	d H7
Epaisseur Dicke Thickness E ±0.01	**Epaisseurs et alésages spéciaux sur demande** Andere Dicken und Bohrungen auf Anfrage Other thicknesses and bores on request												**Epaisseur** Dicke Thickness E ±0.01
0.10		●											**0.10**
0.15	●	●	●										**0.15**
0.20	●	●	●	●	●	●							**0.20**
0.25	●	●	●	●	●	●							**0.25**
0.30	●	●	●	●	●	●		●					**0.30**
0.35	●	●	●	●	●	●		●					**0.35**
0.40	●	●	●	●	●	●		●					**0.40**
0.45	●	●		●	●	●		●					**0.45**
0.50	●	●	●	●	●	●	●	●					**0.50**
0.60	●	●	●	●	●	●	●	●					**0.60**
0.70	●	●	●	●	●	●	●	●					**0.70**
0.80	●	●	●	●	●	●	●	●					**0.80**
0.90	●	●	●	●	●	●	●	●					**0.90**
1.00	●	●	●	●	●	●	●	●					**1.00**
1.10		●			●	●		●					**1.10**
1.20	●	●	●	●	●	●	●	●					**1.20**
1.30	●	●			●	●		●					**1.30**
1.40	●	●			●	●		●					**1.40**
1.50	●	●	●	●	●	●	●	●					**1.50**
1.60		●			●	●							**1.60**
1.70		●			●	●							**1.70**
1.80		●			●	●							**1.80**
1.90		●			●	●							**1.90**
2.00	●	●	●	●	●	●							**2.00**
2.50	●	●	●	●	●	●							**2.50**
3.00	●	●	●	●	●	●							**3.00**
3.50													**3.50**
4.00													**4.00**
5.00													**5.00**
6.00													**6.00**

2810 / 2811 / 2815

Tasseaux porte-fraise avec serrage avant
Fräsdorne mit vorderer Klemmung
Milling arbors with front clamping



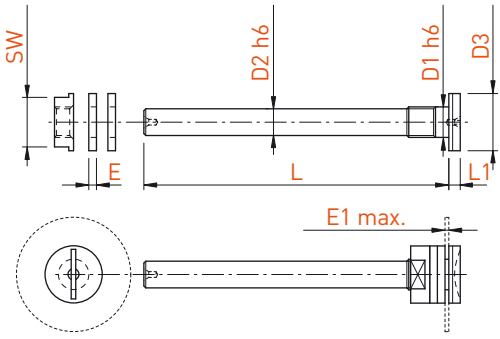
Type 2810	Rotation à droite (filet à droite) Drehrichtung rechts (Rechtsgewinde) Right hand rotation (right hand thread)							
D1 h6	D2 h6	D3	L	L1	E	SW	E1 max.	**Art. N°**
5.0	6.0	10.0	70	9.0	2.0	8.0	6.0	**2810-5-6**
5.0	10.0	10.0	80	9.0	2.0	8.0	6.0	**2810-5-10**
6.0	10.0	12.0	80	9.5	2.0	10.0	6.0	**2810-6-10**
8.0	10.0	15.0	80	10.0	2.0	13.0	6.0	**2810-8-10**
8.0	12.0	15.0	90	10.0	2.0	13.0	6.0	**2810-8-12**
10.0	6.0	18.0	80	10.5	2.0	15.0	6.0	**2810-10-6**
10.0	10.0	18.0	80	10.5	2.0	15.0	6.0	**2810-10-10**
10.0	16.0	18.0	100	10.5	2.0	15.0	6.0	**2810-10-16**
13.0	16.0	22.0	110	11.0	2.0	19.0	6.0	**2810-13-16**
16.0	20.0	26.0	120	12.0	2.0	22.0	6.0	**2810-16-20**
22.0	16.0	32.0	120	12.0	2.0	27.0	6.0	**2810-22-16**

Type 2811	Rotation à droite (filet à droite) Drehrichtung rechts (Rechtsgewinde) Right hand rotation (right hand thread)							
D1 h6	D2 h6	D3	L	L1	E	SW	E1 max.	**Art. N°**
16.0	10.0	22.0	80	8.0	2.0	19.0	3.0	**2811-16-10**

Type 2815	Pour petites fraises circulaires (filet à droite) Für kleine Kreissägeblätter (Rechtsgewinde) For small slitting saws (right hand thread)							
D1 h6	D2 h6	D3	L	L1	E	SW	E1 max.	**Art. N°**
3.0	5.0	5.0	60	7.0	1.0	4.0	3.0	**2815-3-5**
5.0	6.0	7.5	70	7.0	1.0	6.0	3.0	**2815-5-6**

Tasseaux porte-fraise avec serrage arrière
Fräsdorne mit rückseitiger Klemmung
Milling arbors with rear clamping

2820 / 1820

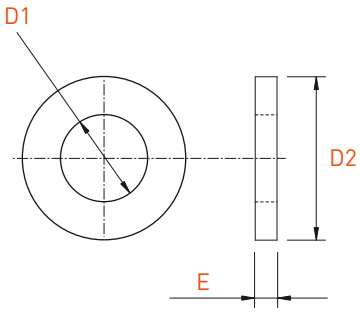


Type 2820	Rotation à droite (filet à gauche) Drehrichtung rechts (Linksgewinde) Right hand rotation (left hand thread)							
D1 h6	D2 h6	D3	L	L1	E	SW	E1 max.	**Art. N°**
5.0	4.0	10.0	50	3.0	2.0	8.0	6.0	**2820-5-4**
6.0	5.0	12.0	60	3.0	2.0	10.0	6.0	**2820-6-5**
8.0	6.0	15.0	80	3.0	2.0	13.0	6.0	**2820-8-6**
8.0	7.0	15.0	80	3.0	2.0	13.0	6.0	**2820-8-7**
10.0	6.0	18.0	70	3.5	2.0	15.0	6.0	**2820-10-6**
10.0	8.0	18.0	90	3.5	2.0	15.0	6.0	**2820-10-8**
13.0	10.0	22.0	110	3.5	2.0	19.0	6.0	**2820-13-10**
16.0	12.0	26.0	120	3.5	2.0	22.0	6.0	**2820-16-12**

Type 1820	Rotation à gauche (filet à droite) Drehrichtung links (Rechtsgewinde) Left hand rotation (right hand thread)							
D1 h6	D2 h6	D3	L	L1	E	SW	E1 max.	**Art. N°**
5.0	4.0	10.0	50	3.0	2.0	8.0	6.0	**1820-5-4**
6.0	5.0	12.0	60	3.0	2.0	10.0	6.0	**1820-6-5**
8.0	6.0	15.0	70	3.0	2.0	13.0	6.0	**1820-8-6**
10.0	6.0	18.0	70	3.5	2.0	15.0	6.0	**1820-10-6**

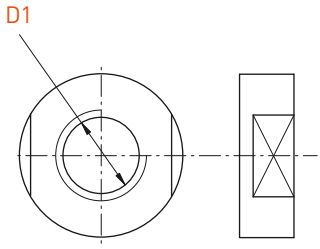
Chaque tasseau est livré avec 2 entretoises et 1 écrou
Jeder Fräsdorn wird mit 2 Abstandsringen und 1 Mutter geliefert
2 distance rings and 1 nut are included with each arbor

Entretoise Abstandsring Ring				
Correspondance tasseaux Passende Fräsdorne Matching milling arbors				
Type	D1	E	D2	**Art. N°**
1820	5	1.0	10.0	**1820-5-A1**
		2.0		**1820-5-A2**
	6	1.0	12.0	**1820-6-A1**
		2.0		**1820-6-A2**
	8	1.0	15.0	**1820-8-A1**
		2.0		**1820-8-A2**
	10	1.0	18.0	**1820-10-A1**
		2.0		**1820-10-A2**
2810	5	1.0	10.0	**2810-5-A1**
		2.0		**2810-5-A2**
	6	1.0	12.0	**2810-6-A1**
		2.0		**2810-6-A2**
	8	1.0	15.0	**2810-8-A1**
		2.0		**2810-8-A2**
	10	1.0	18.0	**2810-10-A1**
		2.0		**2810-10-A2**
	13	1.0	22.0	**2810-13-A1**
		2.0		**2810-13-A2**
	16	1.0	26.0	**2810-16-A1**
		2.0		**2810-16-A2**
	22	1.0	32.0	**2810-22-A1**
		2.0		**2810-22-A2**
2811	16	1.0	22.0	**2811-16-A1**
		2.0		**2811-16-A2**
2815	3	1.0	5.0	**2815-3-A1**
	5		7.5	**2815-5-A1**
2820	5	1.0	10.0	**2820-5-A1**
		2.0		**2820-5-A2**
	6	1.0	12.0	**2820-6-A1**
		2.0		**2820-6-A2**
	8	1.0	15.0	**2820-8-A1**
		2.0		**2820-8-A2**
	10	1.0	18.0	**2820-10-A1**
		2.0		**2820-10-A2**
	13	1.0	22.0	**2820-13-A1**
		2.0		**2820-13-A2**
	16	1.0	26.0	**2820-16-A1**
		2.0		**2820-16-A2**



Pièces de rechange et accessoires
Ersatzteile und Zubehöre
Spare parts and accessories

18-B / 28-B



Écrou Mutter Nut			
Correspondance tasseaux Passende Fräsdorne Matching milling arbors			
Type	D1	M	**Art. N°**
1820	5.0	M5x0.5	**1820-5-B**
	6.0	M6x0.5	**1820-6-B**
	8.0	M8x0.75	**1820-8-B**
	10.0	M10x0.75	**1820-10-B**
2810	5.0	M5x0.5	**2810-5-B**
	6.0	M6x0.5	**2810-6-B**
	8.0	M8x0.75	**2810-8-B**
	10.0	M10x0.75	**2810-10-B**
	13.0	M13x1	**2810-13-B**
	16.0	M16x1	**2810-16-B**
	22.0	M22x1	**2810-22-B**
2811	16.0	M16x1	**2811-16-B**
2815	3.0	M3x0.5	**2815-3-B**
	5.0	M5x0.5	**2815-5-B**
2820	5.0	M5x0.5	**2820-5-B**
	6.0	M6x0.5	**2820-6-B**
	8.0	M8x0.75	**2820-8-B**
	10.0	M10x0.75	**2820-10-B**
	13.0	M13x1	**2820-13-B**
	16.0	M16x1	**2820-16-B**

JET-Line

APPLITEC
CUTTING TOOLS

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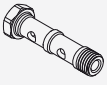
JEB-DUO	Vis Banjo doubles Hohlschrauben doppelt Double banjo screws		> **18.34**
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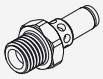
JWM	Fiches de connexion fixes mâles Aussengewindestecker mit Verdrehsicherung Male positionning connection plugs		> **18.38**
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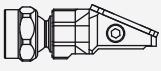
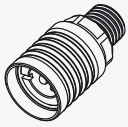
JKIT-CU	Kits tubes en cuivre avec buse d'arrosage Kits Kupferrohr mit Kühlungsdüse Kit copper tubes with coolant nozzle		> **18.43**
JAR	Systèmes articulés Gelenksysteme Articulated systems		> **18.44**
JRMM-AR	Connecteurs mâles/mâles Anschlüsse Außengewinde Male connectors		> **18.45**
JJ-AR	Buses Düse Nozzle		> **18.46**
JJ-AR6	Buses plates Flachdüse Flat nozzle		> **18.47**
Accessoires Zubehöre Accessories			> **18.48**

Changement rapide
Schnellwechselsystem
Quick change

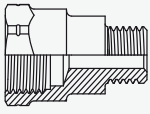


Réduit le temps de préparation et garantit le repositionnement des sorties de liquide de refroidissement
Verkürzung der Rüstzeiten bei gleicher Position der Kühlmittelauslässe
Reduces set-up time and ensures repositioning of coolant outlets

Refroidissement à haute pression
Hochdruckkühlung
High-pressure cooling

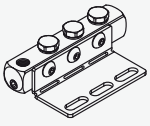
Tuyaux flexibles renforcés garantis jusqu'à 220 bar
Verstärkte Schläuche bis 220 bar garantiert
Reinforced flexible hoses guaranteed up to 220 bar

Facilité d'adaptation
Einfache Anpassungsmöglichkeiten
Easy to adapt



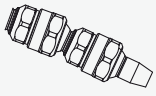
Adaptateurs disponibles pour filetage M5, M6, M8X1 et BSP1/8
Adapter für M5, M6, M8X1 und BSP1/8 erhältlich
Adaptors available for M5, M6, M8X1, and BSP1/8 thread

Multiples possibilités de connexion
Vielfältige Anschlussoptionen
Large range of connection possibilites



Vaste gamme de connecteurs pour tous les types de machines
Grosse Auswahl von Anschlüsse für alle Machinentypen
Huge range of possible coolant connections to suit all machine types

Système articulé
Gelenksystem
Articulated system



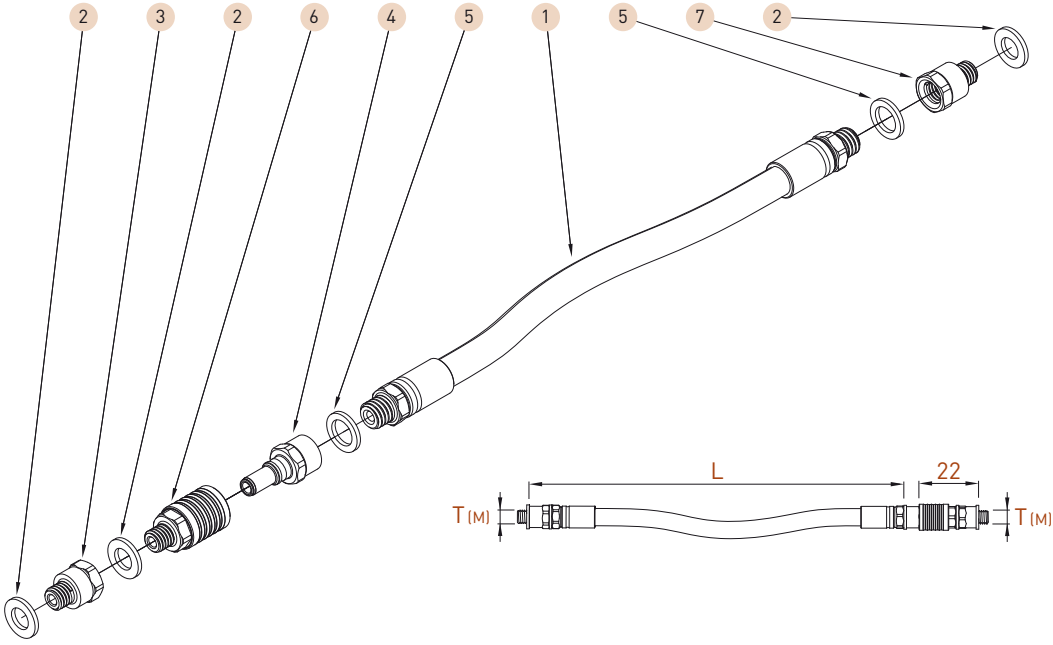
Module flexible d'arrosage en acier pour une meilleure stabilité
Flexibler Stahlkühlmittelmodul für eine bessere Stabilität
Flexible steel coolant unit for better stability

Durée de vie prolongée et performance de coupe optimisée par la maîtrise du flux de copeaux
Verlängerte Werkzeugstandzeit und optimierte Schnittleistung durch kontrollierten Spanflus
Extended tool life and optimized cutting performance through controlled chip flow

JKIT-M5-D4-...-QF

M5
Quick / Fix

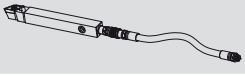
Kits de connexion
Verbindungskits
Connection kits



Ref	Qty	Composition du kit Zusammensetzung Kit Kit composition
1	1	JTX-AC-M6-L...
2	3	JO-M5
3	1	JRMF-M5-M5-L6.5
4	1	JVF-M6-D4
5	2	JO-M6
6	1	-M5-D4
7	1	JRMF-M5-M6-L7.5

D	T (M)	L	Art. N°
4	M5	102	**JKIT-M5-D4-102-QF**
		203	**JKIT-M5-D4-203-QF**
		305	**JKIT-M5-D4-305-QF**
		406	**JKIT-M5-D4-406-QF**

Compatibilité
Kompatibilität
Compatibility



Porte-outil/Halter/Holder M5

ISO-Line 8X10
MODU-Line
TOP-Line 8X10
TURN-Line 8X10

Options

Art. N°

JK-M5-1010-4T

voir page 18.39
siehe Seite 18.39
see page 18.39

Art. N°

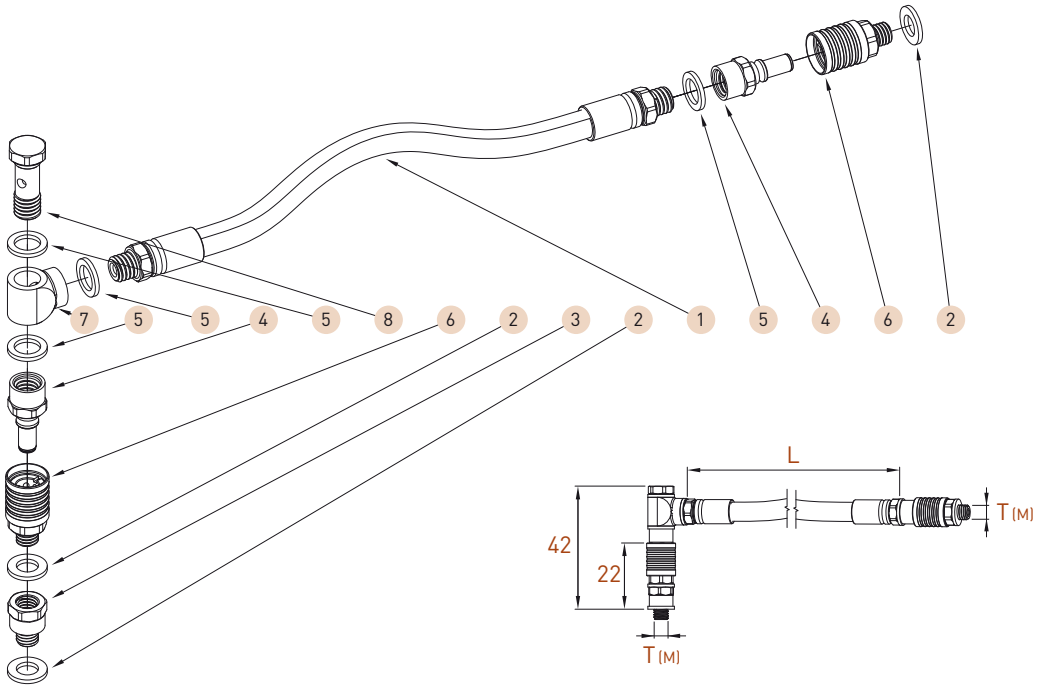
C-SW8-E2.5

voir page 18.51
siehe Seite 18.51
see page 18.51

Kits de connexion
Verbindungskits
Connection kits

M5
Quick / Quick

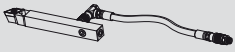
JKIT-M5-D4-...-QQ



Ref	Qty	Composition du kit Zusammensetzung Kit Kit composition
1	1	JTX-AC-M6-L...
2	3	JO-M5
3	1	JRMF-M5-M5-L6.5
4	2	JVF-M6-D4
5	4	JO-M6
6	2	JS-M5-D4
7	1	JCBF-Ø6-M6
8	1	JEB-M6-L19

D	T (M)	L	Art. N°
4	M5	102	**JKIT-M5-D4-102-QQ**
		203	**JKIT-M5-D4-203-QQ**
		305	**JKIT-M5-D4-305-QQ**
		406	**JKIT-M5-D4-406-QQ**

Compatibilité
Kompatibilität
Compatibility



Porte-outil/Halter/Holder M5

ISO-Line 8X10
MODU-Line
TOP-Line 8X10
TURN-Line 8X10

Options

Art. N°

JK-M5-1010-4T

voir page 18.39
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see page 18.39

Art. N°

C-SW8-E2.5

voir page 18.51
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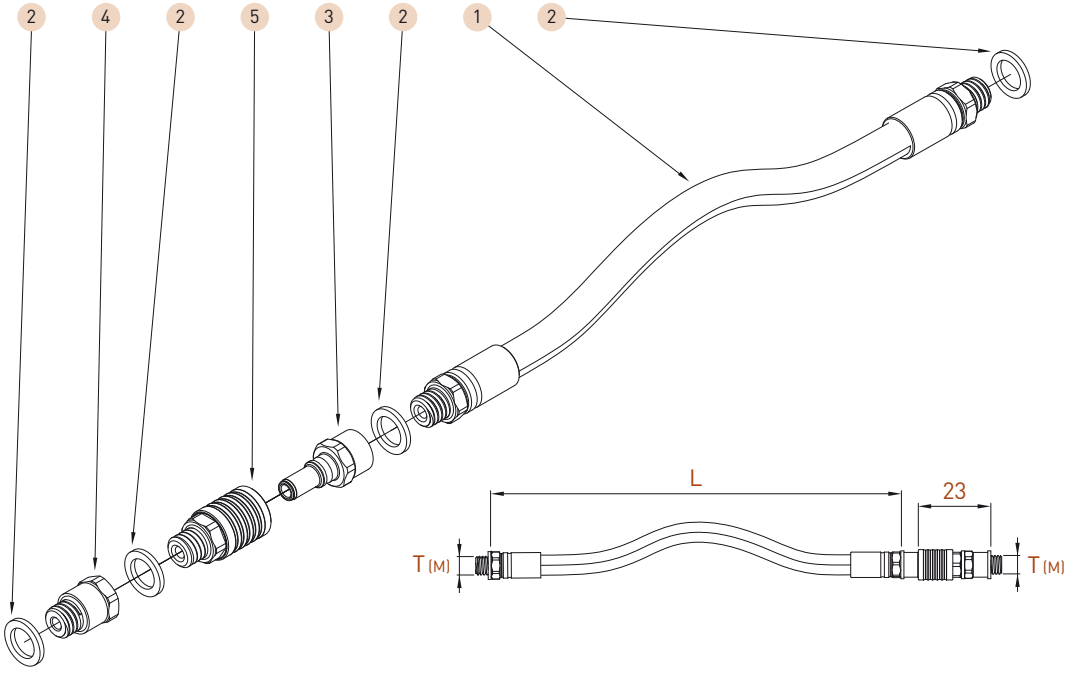
JKIT-M6-D4-...-QF

M6
Quick / Fix

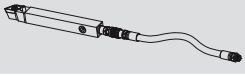
Kits de connexion
Verbindungskits
Connection kits



Ref	Qty	Composition du kit Zusammensetzung Kit Kit composition
1	1	JTX-AC-M6-L...
2	4	JO-M6
3	1	JVF-M6-D4
4	1	JRMF-M6-M6-L7.5
5	1	JS-M6-D4

D	T (M)	L	Art. N°
4	M6	102	**JKIT-M6-D4-102-QF**
		203	**JKIT-M6-D4-203-QF**
		305	**JKIT-M6-D4-305-QF**
		406	**JKIT-M6-D4-406-QF**

Compatibilité
Kompatibilität
Compatibility



Porte-outil/Halter/Holder M6

Options

Art. N°

JK-M6-1010-4T

voir page 18.39
siehe Seite 18.39
see page 18.39

Art. N°

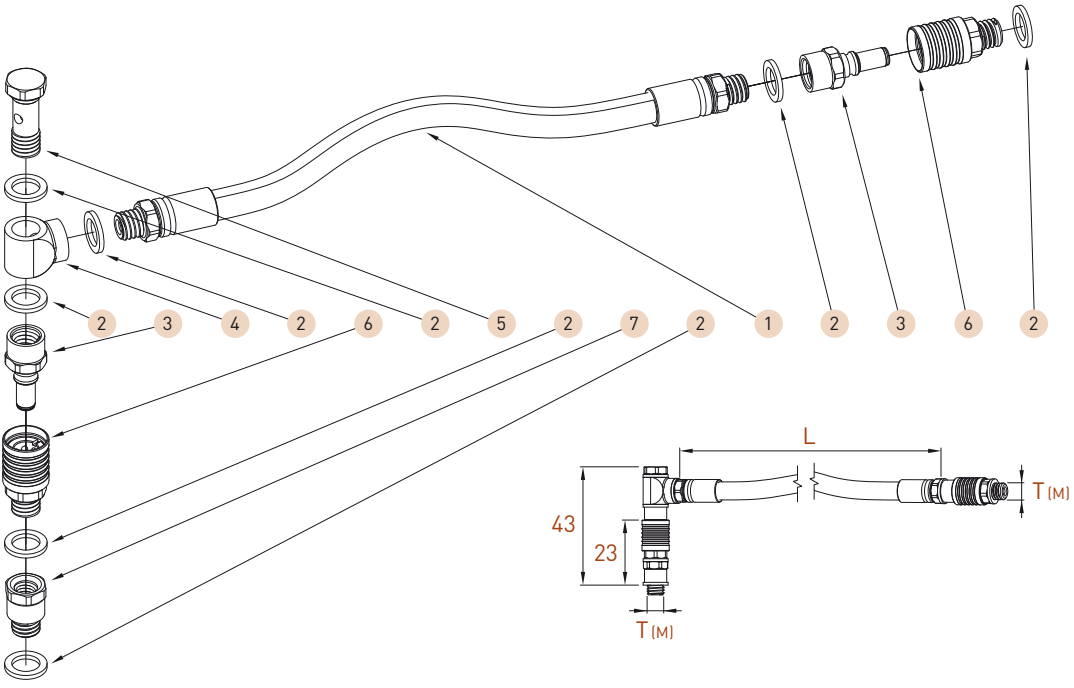
C-SW8-E2.5

voir page 18.51
siehe Seite 18.51
see page 18.51

Kits de connexion
Verbindungskits
Connection kits

M6
Quick / Quick

JKIT-M6-D4-...-QQ



Ref	Qty	Composition du kit Zusammensetzung Kit Kit composition
1	1	JTX-AC-M6-L...
2	7	JO-M6
3	2	JVF-M6-D4
4	1	JCBF-Ø6-M6
5	1	JEB-M6-L19
6	2	JS-M6-D4
7	1	JRMF-M6-M6-L7.5

D	T (M)	L	Art. N°
4	M6	102	**JKIT-M6-D4-102-QQ**
		203	**JKIT-M6-D4-203-QQ**
		305	**JKIT-M6-D4-305-QQ**
		406	**JKIT-M6-D4-406-QQ**

Compatibilité
Kompatibilität
Compatibility

Porte-outil/Halter/Holder M6

Options

Art. N°	Art. N°
JK-M6-1010-4T	**C-SW8-E2.5**
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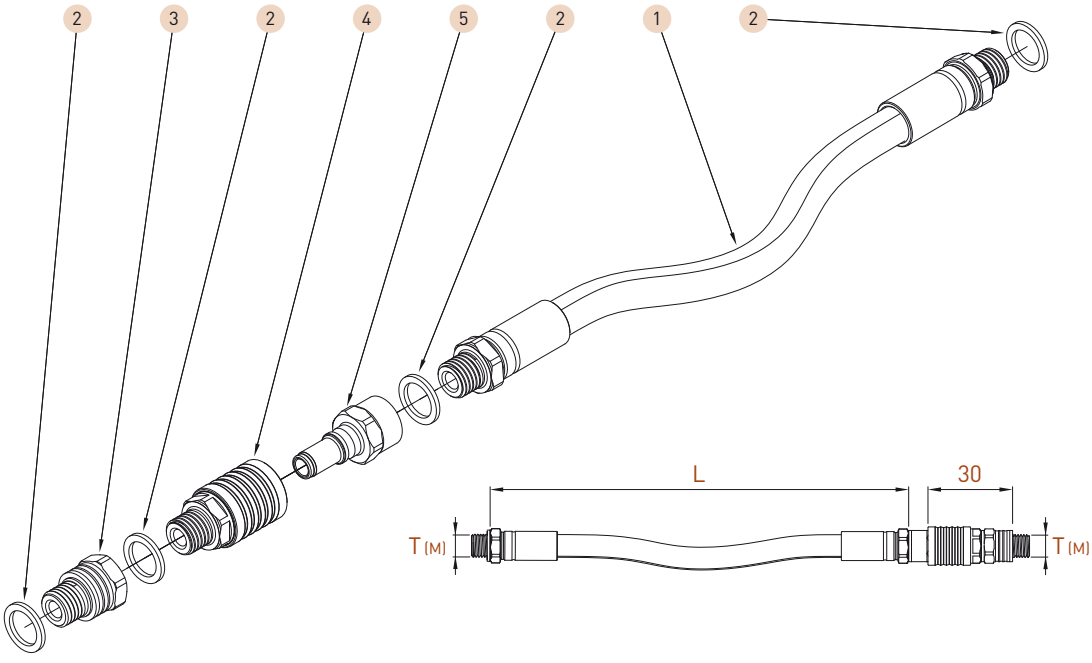
JKIT-M8X1-D6-...-QF

M8X1
Quick / Fix

Kits de connexion
Verbindungskits
Connection kits



Ref	Qty	Composition du kit Zusammensetzung Kit Kit composition
1	1	JTX-AC-M8X1-L...
2	4	JO-M8X1
3	1	JRMF-M8X1-M8X1-L9.5
4	1	JS-M8X1-D6
5	1	JVF-M8X1-D6

D	T (M)	L	Art. N°
6	M8X1	102	**JKIT-M8X1-D6-102-QF**
		203	**JKIT-M8X1-D6-203-QF**
		305	**JKIT-M8X1-D6-305-QF**
		406	**JKIT-M8X1-D6-406-QF**

Compatibilité
Kompatibilität
Compatibility

Porte-outil/Halter/Holder M8X1

CUT-Line 16X16 - 25X25
ECO-Line 10X12 - 20X20
EVOCUT-Line 10X12 - 20X20
IN-Line Ø12 - Ø28
ISO-Line 10X10 - 20X20
MODU-Line
PRO-Line 10X12 - 20X20
TOP-Line 10X12 - 20X20
TURN-Line 10X12 - 20X20

Options

Art. N°

JK-M8X1-1515-4T

voir page 18.39
siehe Seite 18.39
see page 18.39

Art. N°

C-SW11-E3.7

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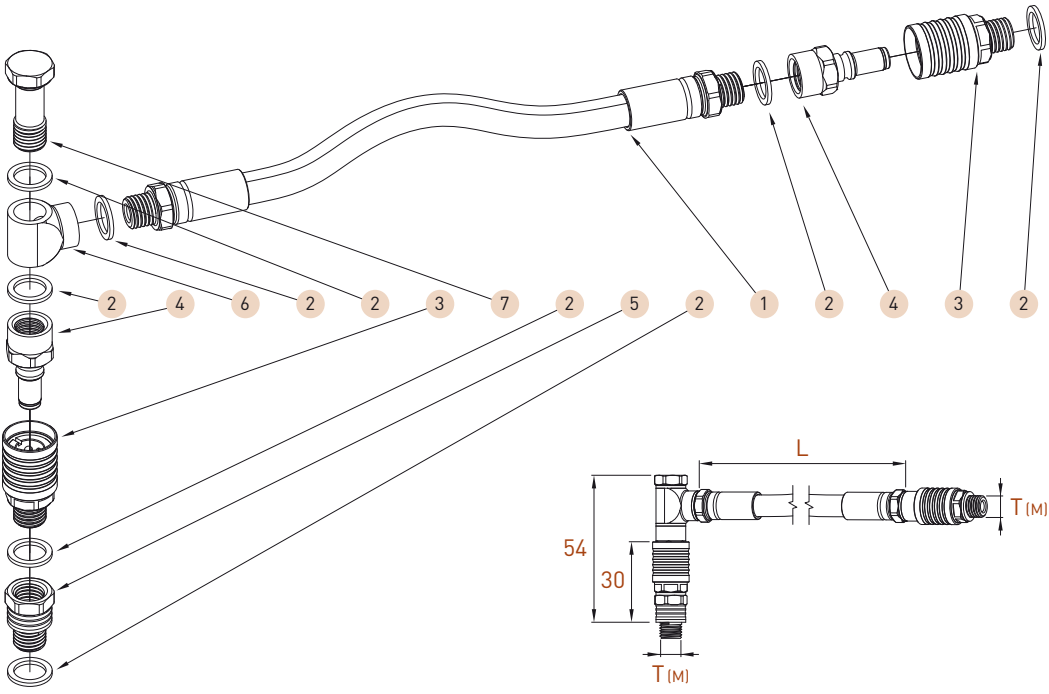
siehe Seite 18.51
see page 18.51

Kits de connexion
Verbindungskits
Connection kits

M8X1
Quick / Quick

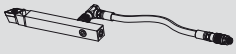
JKIT-M8X1-D6-...-QQ



Ref	Qty	Composition du kit Zusammensetzung Kit Kit composition
1	1	JTX-AC-M8X1-L...
2	7	JO-M8X1
3	2	JS-M8X1-D6
4	2	JVF-M8X1-D6
5	1	JRMF-M8X1-M8X1-L9.5
6	1	JCBF-Ø8-M8X1
7	1	JEB-M8X1-L24

D	T (M)	L	Art. N°
6	M8X1	102	**JKIT-M8X1-D6-102-QQ**
		203	**JKIT-M8X1-D6-203-QQ**
		305	**JKIT-M8X1-D6-305-QQ**
		406	**JKIT-M8X1-D6-406-QQ**

Compatibilité
Kompatibilität
Compatibility



Porte-outil/Halter/Holder M8X1

CUT-Line 16X16 - 25X25
ECO-Line 10X12 - 20X20
EVOCUT-Line 10X12 - 20X20
IN-Line Ø12 - Ø28
ISO-Line 10X10 - 20X20
MODU-Line
PRO-Line 10X12 - 20X20
TOP-Line 10X12 - 20X20
TURN-Line 10X12 - 20X20

Options

Art. N°

JK-M8X1-1515-4T

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siehe Seite 18.39
see page 18.39

Art. N°

C-SW11-E3.7

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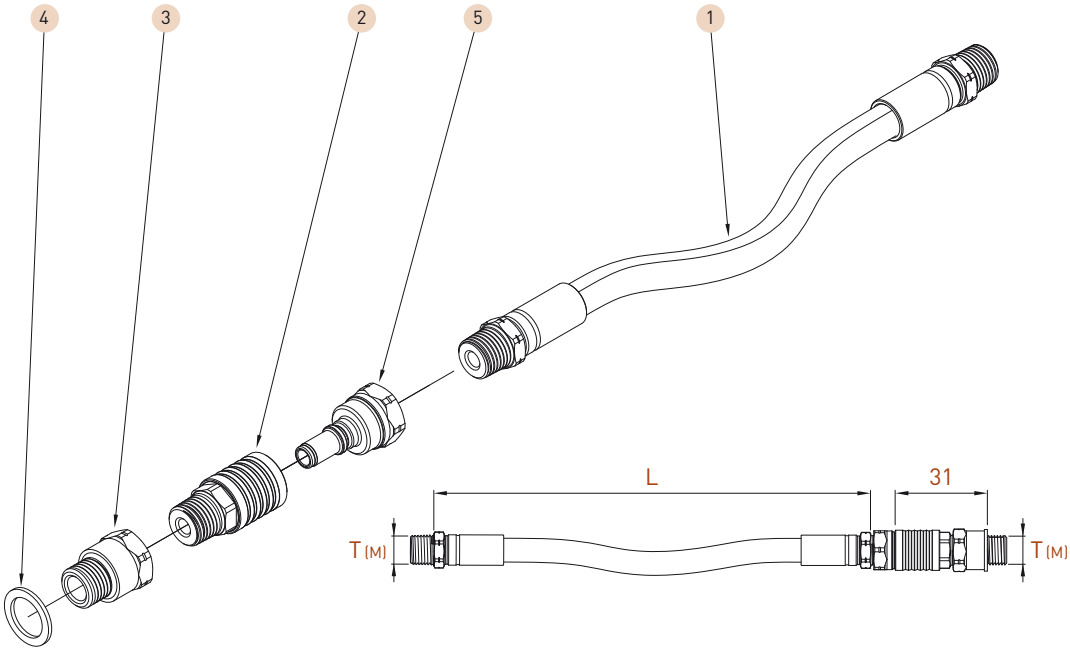
JKIT-BSP1/8-D6-...-QF

BSP1/8
Quick / Fix

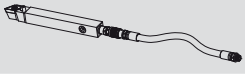
Kits de connexion
Verbindungskits
Connection kits



Ref	Qty	Composition du kit Zusammensetzung Kit Kit composition
1	1	JTX-AC-BSPT1/8-L...
2	1	JS-BSPT1/8-D6
3	1	JRMF-BSP1/8-BSP1/8-L10.5
4	1	JO-BSP1/8
5	1	JVF-BSP1/8-D6

D	T (M)	L	Art. N°
6	BSP1/8	102	**JKIT-BSP1/8-D6-102-QF**
		203	**JKIT-BSP1/8-D6-203-QF**
		305	**JKIT-BSP1/8-D6-305-QF**
		406	**JKIT-BSP1/8-D6-406-QF**

Compatibilité
Kompatibilität
Compatibility



Porte-outil/Halter/Holder BSP1/8

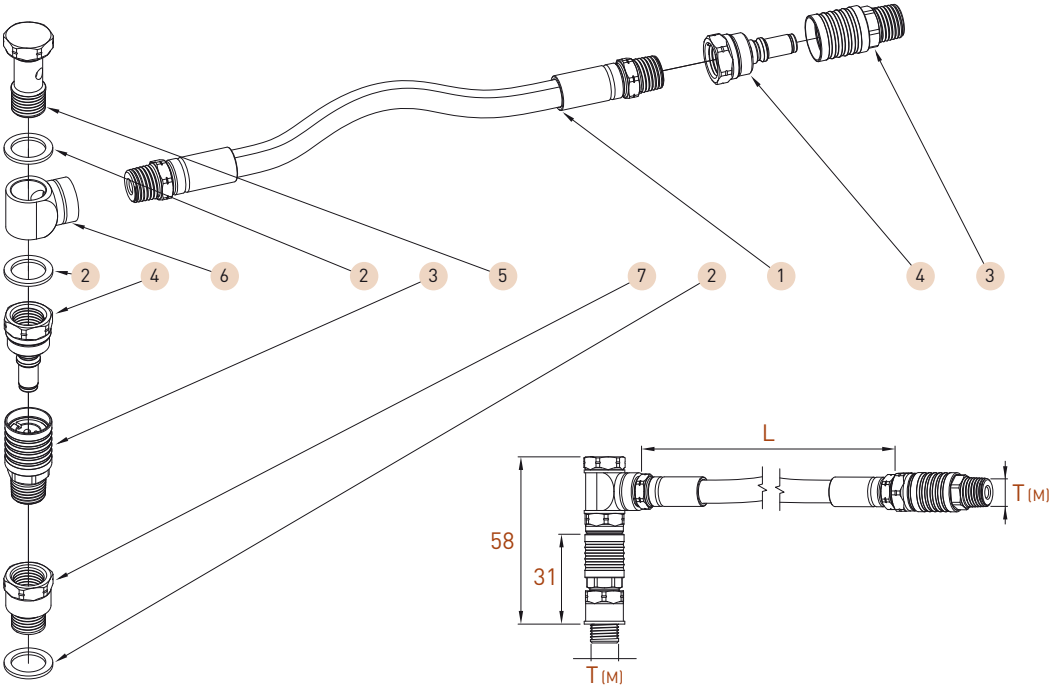
Options

Art. N°	Art. N°
JK-BSP1/8-1515-4T	**C-SW11-E3.7**
voir page 18.39 siehe Seite 18.39 see page 18.39	voir page 18.51 siehe Seite 18.51 see page 18.51

Kits de connexion
Verbindungskits
Connection kits

BSP1/8
Quick / Quick

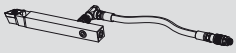
JKIT-BSP1/8-D6-...-QQ



Ref	Qty	Composition du kit Zusammensetzung Kit Kit composition
1	1	JTX-AC-BSPT1/8-L...
2	3	JO-BSP1/8
3	2	JS-BSPT1/8-D6
4	2	JVF-BSP1/8-D6
5	1	JEB-BSP1/8-L26
6	1	JCBF-Ø10-BSP1/8
7	1	JRMF-BSP1/8-BSP1/8-L10.5

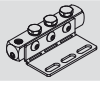
D	T (M)	L	Art. N°
6	BSP1/8	102	**JKIT-BSP1/8-D6-102-QQ**
		203	**JKIT-BSP1/8-D6-203-QQ**
		305	**JKIT-BSP1/8-D6-305-QQ**
		406	**JKIT-BSP1/8-D6-406-QQ**

Compatibilité
Kompatibilität
Compatibility



Porte-outil/Halter/Holder BSP1/8

Options



Art. N°

JK-BSP1/8-1515-4T

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siehe Seite 18.39
see page 18.39

Art. N°

C-SW11-E3.7

voir page 18.51
siehe Seite 18.51
see page 18.51

JSTART-D4

M6 (+ M5)

Starter Kit

Qty	Composition du kit Zusammensetzung Kit Kit composition	**Art. N°**
2	C-SW8-E2.5	**JSTART-D4**
4	JO-M6	
2	JO-M5	
2	JK-M6-1010-4T	
10	JS-M6-D4	
2	JTX-AC-M6-102	
2	JTX-AC-M6-203	
2	JTX-AC-M6-305	
2	JTX-AC-M6-406	
10	JVF-M6-D4	
2	JVB-D4	
2	JWF-M6-D4	
2	JRMF-M6-M6-L7.5	
2	JRMF-M6-M6-L12.5	
2	JRMF-M6-M6-L17.5	
10	JRMF-M5-M6-L7.5	
2	JRFF-M6-L9.0	
5	JCBF-Ø6-M6	
2	JABF-Ø6-M6-45°	
5	JEB-M6-L19	
2	JEB-M6-L30-DUO	
1	JT-CU-M6-102	
1	JT-CU-M6-203	

Starter Kit

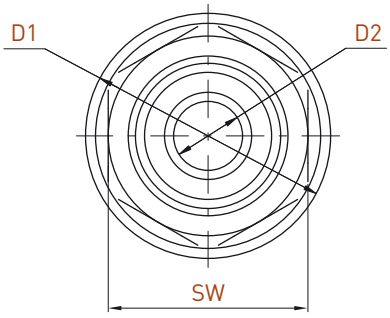
M8X1 (+ BSP1/8)

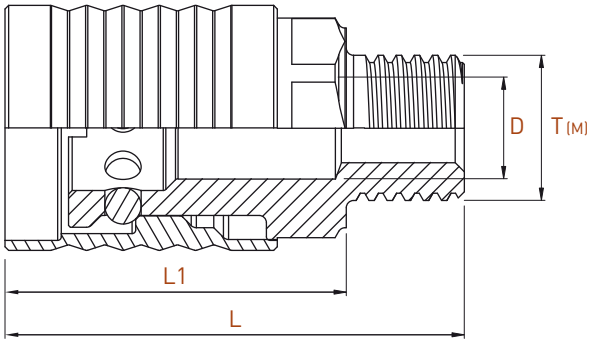
JSTART-D6

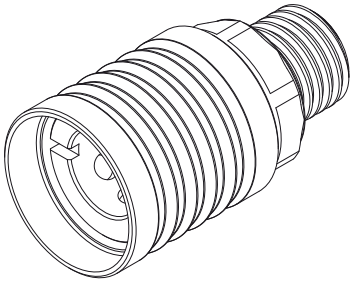
Qty	Composition du kit Zusammensetzung Kit Kit composition	Art. N°
2	C-SW11-E3.7	JSTART-D6
4	JO-M8X1	
2	JK-M8X1-1515-4T	
10	JS-M8X1-D6	
2	JTX-AC-M8X1-102	
2	JTX-AC-M8X1-203	
2	JTX-AC-M8X1-305	
2	JTX-AC-M8X1-406	
10	JVF-M8X1-D6	
2	JVB-D6	
2	JWF-M8X1-D6	
2	JRMF-M8X1-M8X1-L9.5	
2	JRMF-M8X1-M8X1-L14.5	
2	JRMF-M8X1-M8X1-L19.5	
10	JRMF-BSPT1/8-M8X1-L9.0	
2	JRFF-M8X1-L12.0	
5	JCBF-Ø8-M8X1	
2	JABF-Ø8-M8X1-45°	
5	JEB-M8X1-L24	
2	JEB-M8X1-L38-DUO	
1	JT-CU-M8X1-102	
1	JT-CU-M8X1-203	

JS

Raccords rapides
Schnellkupplungen
Quick connectors





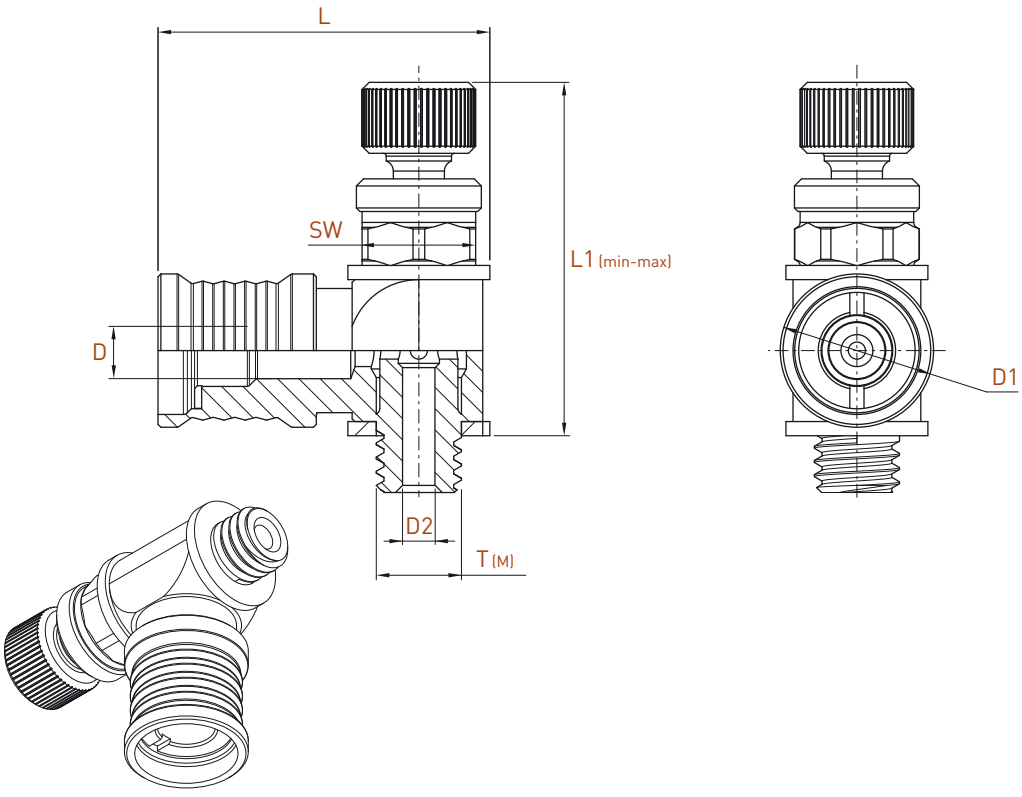


T (M)	L	L1	SW	D	D1	D2	Art. N°
M5	18	14	8	4	9.8	2.3	**JS-M5-D4**
M6	18	14	8	4	9.8	2.3	**JS-M6-D4**
M8X1KEG	20	14	8	4	9.8	2.3	**JS-M8X1KEG-D4**
M8X1	25	19	11	6	13.5	3.8	**JS-M8X1-D6**
BSPT1/8	29.3	19	11	6	13.5	3.8	**JS-BSPT1/8-D6**

Pression max Max. Druck Max. pressure	KEG =	BSPT =
= 220 Bar (3.190 PSI)	filetage conique konisches Gewinde conical thread	filetage conique konisches Gewinde conical thread

Raccords rapides Banjos avec régulateur de débit
Schnellkupplungen-Banjos mit Durchflussregler
Banjo quick couplings with flow regulators

JSFA

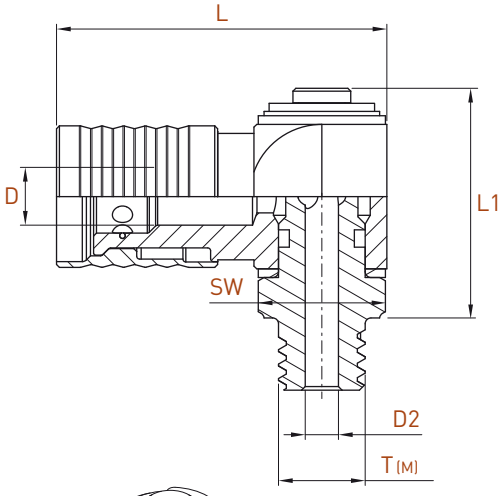


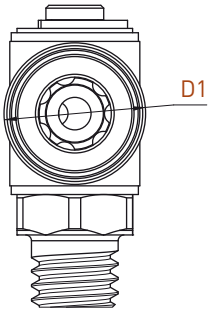
T (M)	L	L1 (min-max)	SW	D	D1	D2	Art. N°
M6	23.4	23.1-24.9	8	4	10.8	2.3	**JSFA-M6-D4**
M8x1	30.5	29.4-32.1	11	6	14.5	3.8	**JSFA-M8x1-D6**

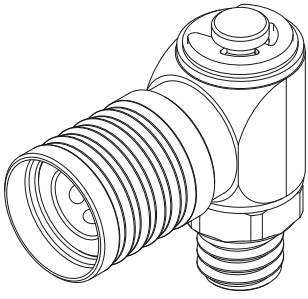
Pression max Max. Druck Max. pressure
= 220 Bar (3.190 PSI)

JSR

Raccords rapides rotatifs
Drehbare Schnellkupplungen
Rotating quick couplings





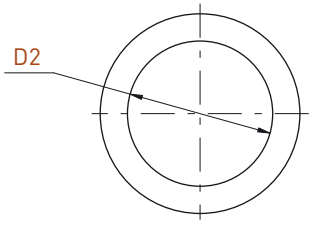


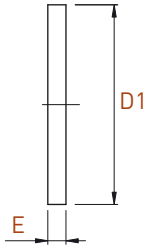
T (M)	L	L1	SW	D	D1	D2	Art. N°
M5	22.9	15.2	8	4	9.8	2.3	**JSR-M5-D4**
M6	22.9	15.9	8	4	9.8	2.3	**JSR-M6-D4**
M8x1	29.9	21	11	6	13.5	3.8	**JSR-M8x1-D6**
BSP1/8	29.9	22	13	6	13.5	3.8	**JSR-BSP1/8-D6**

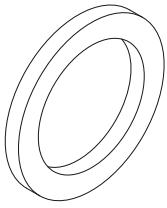
Pression max Max. Druck Max. pressure
= 220 Bar (3.190 PSI)

Joints d'étanchéité en cuivre
Kupferdichtungsringe
Copper sealing gaskets

J0





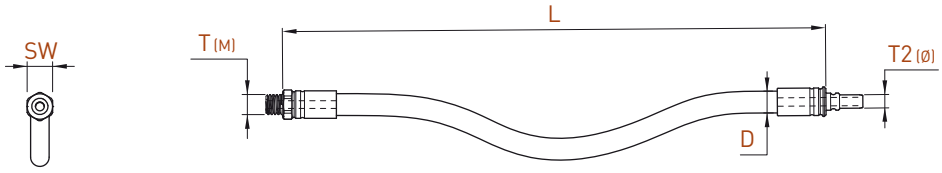


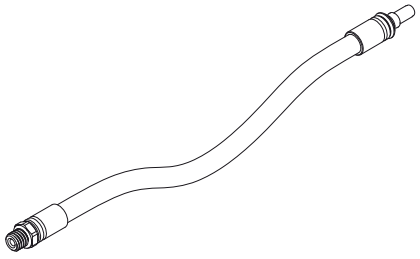
D1	D2	E	Art. N°
9	5	1	**J0-M5***
9	6	1	**J0-M6***
11	8	1	**J0-M8X1***
14	10	1	**J0-BSP1/8***

* vendu par 10 pièces
verkauft in 10 Stück
sold by 10 pieces

JTS-AC

Tubes de distribution flexibles en acier avec fiche de connexion rapide
Stahlflex-Verteilschläuche mit Schnellkupplungsstecker
Flexible distribution tubes of steel with quick connection plug





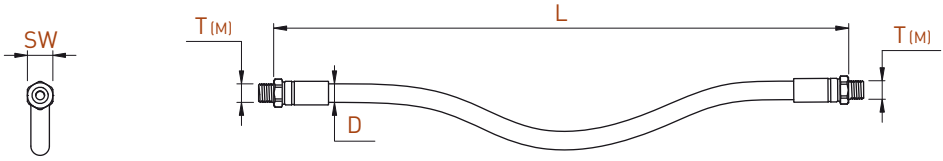
T (M)	T2 (Ø)	L*	SW	D	Art. N°
M6	4	102	8	6.5	**JTS-AC-M6-102**
		152			**JTS-AC-M6-152**
		203			**JTS-AC-M6-203**
		305			**JTS-AC-M6-305**
		406			**JTS-AC-M6-406**
M8x1	6	102	11	8	**JTS-AC-M8x1-102**
		152			**JTS-AC-M8x1-152**
		203			**JTS-AC-M8x1-203**
		305			**JTS-AC-M8x1-305**
		406			**JTS-AC-M8x1-406**

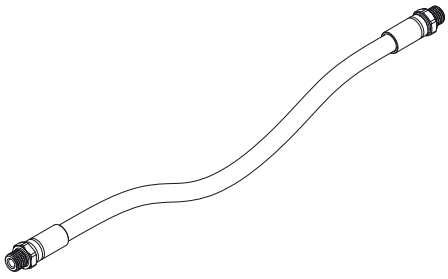
* Longueur spécifique possible sur demande
Spezifische Länge auf Anfrage möglich
Specific length possible on request

Pression max Max. Druck Max. pressure	Couple de serrage Anzugsmoment Torque setting
= 150 Bar (2.175 PSI)	**1.8 Nm**

Tubes de distribution flexibles en acier inoxydable tressé
Rostfreier Stahlflex-Schlauch
Flexible distribution tubes of stainless steel braiding

JTX-AC





T (M)	L*	SW	D	Art. N°
M6	102	8	Ø6.5	**JTX-AC-M6-102**
	203	8	Ø6.5	**JTX-AC-M6-203**
	305	8	Ø6.5	**JTX-AC-M6-305**
	406	8	Ø6.5	**JTX-AC-M6-406**
M8X1	102	11	Ø8	**JTX-AC-M8X1-102**
	203	11	Ø8	**JTX-AC-M8X1-203**
	305	11	Ø8	**JTX-AC-M8X1-305**
	406	11	Ø8	**JTX-AC-M8X1-406**
BSPT1/8	102	11	Ø8	**JTX-AC-BSPT1/8-102**
	203	11	Ø8	**JTX-AC-BSPT1/8-203**
	305	11	Ø8	**JTX-AC-BSPT1/8-305**
	406	11	Ø8	**JTX-AC-BSPT1/8-406**

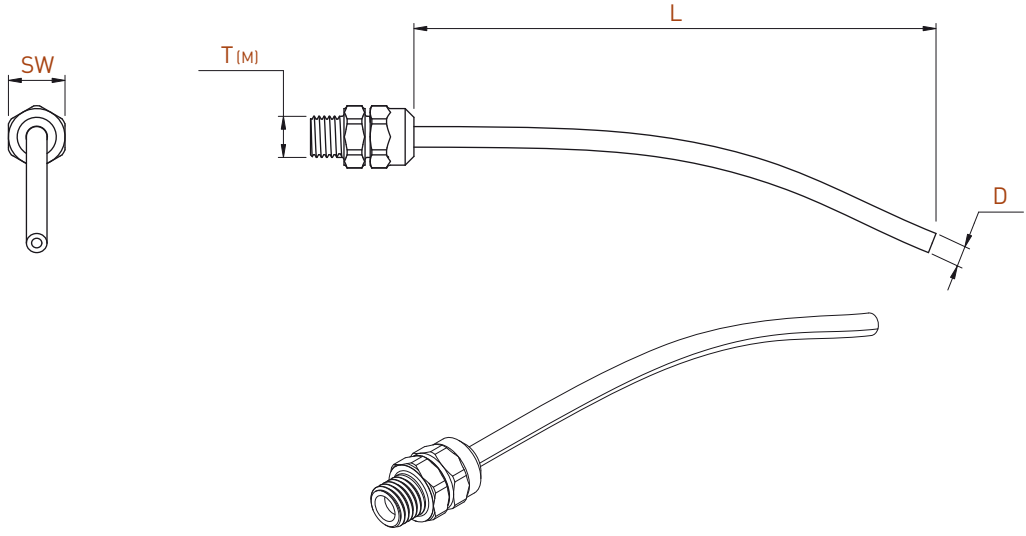
* Longueur spécifique possible sur demande
Spezifische Länge auf Anfrage möglich
Specific length possible on request

Pression max Max. Druck Max. pressure	KEG =	BSPT =
= 220 Bar (3.190 PSI)	filetage conique konisches Gewinde conical thread	filetage conique konisches Gewinde conical thread

Pression (bar)	Ø 6.5 (l/min)	Ø 8 (l/min)
2	3.5	9.5
8	7.0	19.0
15	9.6	26.0
20	11.0	30.1
30	13.5	36.9
50	17.5	47.6
80	22.1	60.3
100	24.7	67.4
150	30.2	82.5

JT-CU

Tubes de distribution en cuivre
Kupferrohre
Copper distribution tubes



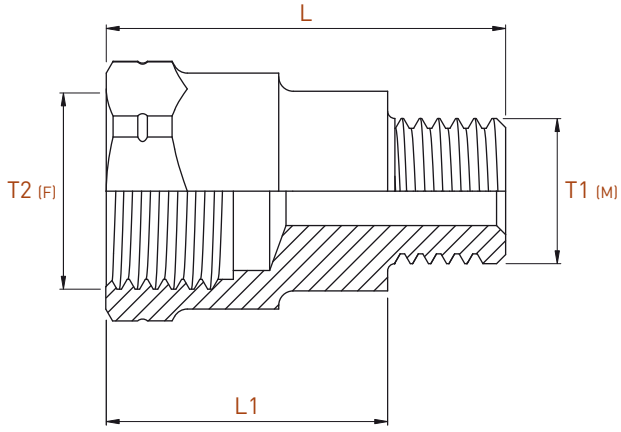
T (M)	L*	SW	D	Art. N°
M6	102	8	Ø3	**JT-CU-M6-102**
	203	8	Ø3	**JT-CU-M6-203**
	305	8	Ø3	**JT-CU-M6-305**
	406	8	Ø3	**JT-CU-M6-406**
M8X1	102	11	Ø4	**JT-CU-M8X1-102**
	203	11	Ø4	**JT-CU-M8X1-203**
	305	11	Ø4	**JT-CU-M8X1-305**
	406	11	Ø4	**JT-CU-M8X1-406**

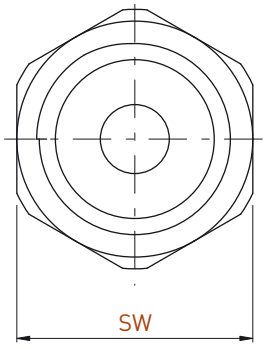
* Longueur spécifique possible sur demande
Spezifische Länge auf Anfrage möglich
Specific length possible on request

Pression max Max. Druck Max. pressure
= 220 Bar (3.190 PSI)

Connecteurs mâles/femelles
Gewindeadapter Innen und Außengewinde
Male/female connectors

JRMF

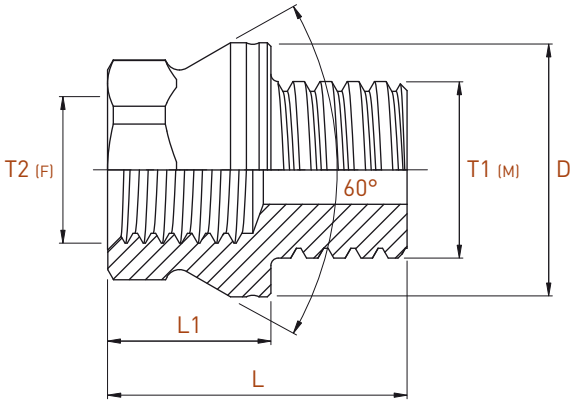


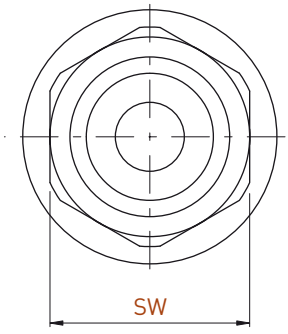


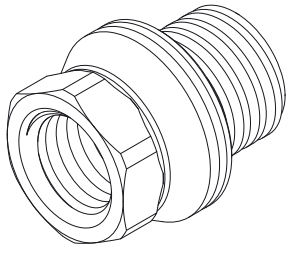
T1 (M)	T2 (F)	L1	L	SW	Art. N°
M5	M5	6.5	11	8	JRMF-M5-M5-L6.5
		11.5	16	8	JRMF-M5-M5-L11.5
		16.5	21	8	JRMF-M5-M5-L16.5
	M6	7.5	12	8	JRMF-M5-M6-L7.5
	M8X1	9.5	14	11	JRMF-M5-M8X1-L9.5
M6	M6	7.5	12.5	8	JRMF-M6-M6-L7.5
		12.5	17.5	8	JRMF-M6-M6-L12.5
		17.5	22.5	8	JRMF-M6-M6-L17.5
	M8X1	9.5	14.5	11	JRMF-M6-M8X1-L9.5
M8X1KEG	M6	6	12	8	JRMF-M8X1KEG-M6-L6.0
	M8X1	9.5	16.5	11	JRMF-M8X1KEG-M8X1-L9.5
M8X1	M5	5.5	12	11	JRMF-M8X1-M5-L5.5
	M6	7	13.5	11	JRMF-M8X1-M6-L7.0
	M8X1	9.5	16	11	JRMF-M8X1-M8X1-L9.5
		14.5	21	11	JRMF-M8X1-M8X1-L14.5
		19.5	26	11	JRMF-M8X1-M8X1-L19.5
	BSP1/8	10.5	17	13	JRMF-M8X1-BSP1/8-L10.5
		15.5	22	13	JRMF-M8X1-BSP1/8-L15.5
		20.5	27	13	JRMF-M8X1-BSP1/8-L20.5
	NPT1/8	11	17.5	13	JRMF-M8X1-NPT1/8-L11
M8X1.25	M8X1	9.5	16	11	JRMF-M8X1.25-M8X1-L9.5
BSPT1/8	M5	3.5	14.6	11	JRMF-BSPT1/8-M5-L3.5
	M6	3.5	14.6	11	JRMF-BSPT1/8-M6-L3.5
	M8X1	9	20.3	11	JRMF-BSPT1/8-M8X1-L9.0
BSP1/8	BSP1/8	10.5	18	13	JRMF-BSP1/8-BSP1/8-L10.5
		15.5	23	13	JRMF-BSP1/8-BSP1/8-L15.5
		20.5	28	13	JRMF-BSP1/8-BSP1/8-L20.5
NPT1/8	M8X1	7	17	13	JRMF-NPT1/8-M8X1-L7.0
	BSP1/8	9	20.3	13	JRMF-NPT1/8-BSP1/8-L9.0
NTP1/16	M6	6	15	11	JRMF-NPT1/16-M6-L6.0
	M8X1	9	18	13	JRMF-NPT1/16-M8X1-L9.0
SAE7/16-20	M6	4.5	12	13	JRMF-SAE7/16-20-M6-L4.5
	M8X1	7	14.5	13	JRMF-SAE7/16-20-M8X1-L7

JRMF-A60°

Connecteurs mâles/femelles avec cône 60°
Gewindeadapter Innen und Außengewinde mit 60°-Kegel
Male/female connectors with cone 60°



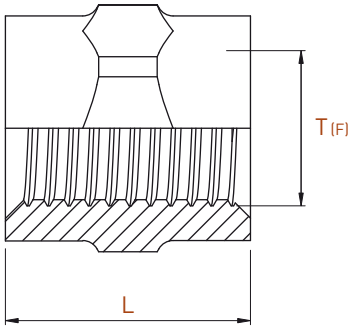


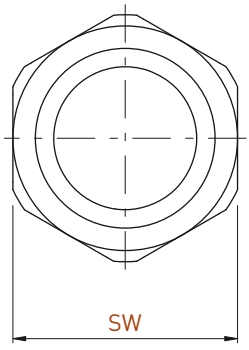


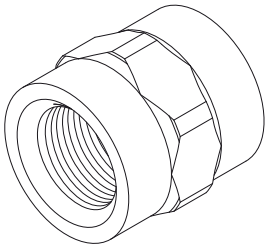
T1 (M)	T2 (F)	L1	L	D	SW	Art. N°
BSP1/8	M8X1	9	16.5	14	11	**JRMF-BSP1/8-M8X1-A60°-L9.0**

Connecteurs femelles/femelles
Gewindeadapter Innengewinde
Female connectors

JRFF



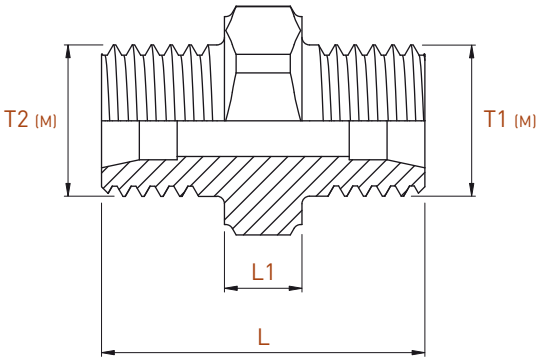


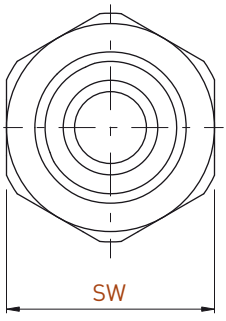


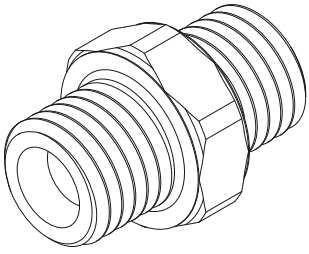
T (F)	L	SW	Art. N°
M6	9	8	**JRFF-M6-L9.0**
M8X1	12	11	**JRFF-M8X1-L12.0**

JRMM

Connecteurs mâles/mâles
Gewindeadapter Außengewinde
Male connectors



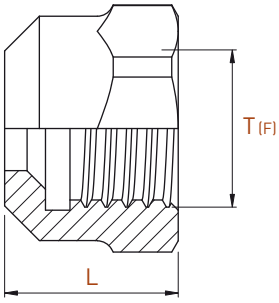


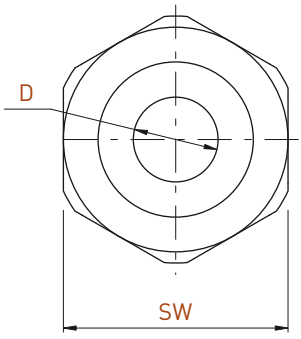


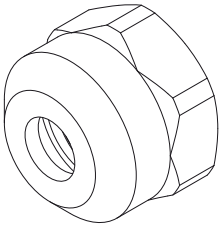
T1 (M)	T2 (M)	L1	L	SW	Art. N°
M6	M6	3	13	8	**JRMM-M6-M6-L3.0**
M8X1	M8X1	4	17	11	**JRMM-M8X1-M8X1-L4.0**
M10X1	M8X1	3.5	17.5	11	**JRMM-M10X1-M8X1-L3.5**

Écrous d'étanchéité
Dichtungsmutter
Sealing nuts

JN



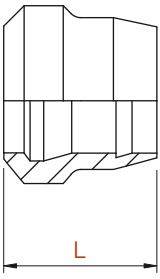


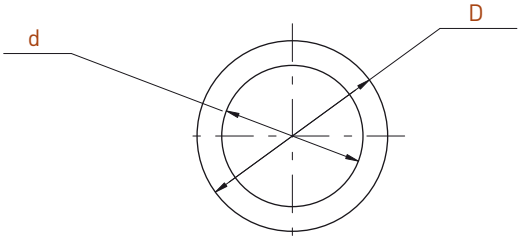


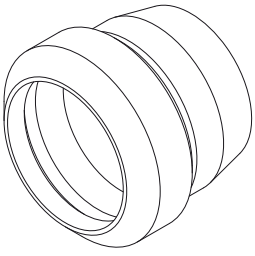
T (F)	L	D	SW	Art. N°
M6	6.5	3	8	**JN-M6-D3**
M8X1	8.5	4	11	**JN-M8X1-D4**
M10X1	11.5	6	12	**JN-M10X1-D6**

JNG

Bagues d'étanchéité
Dichtungsringe
Sealing rings



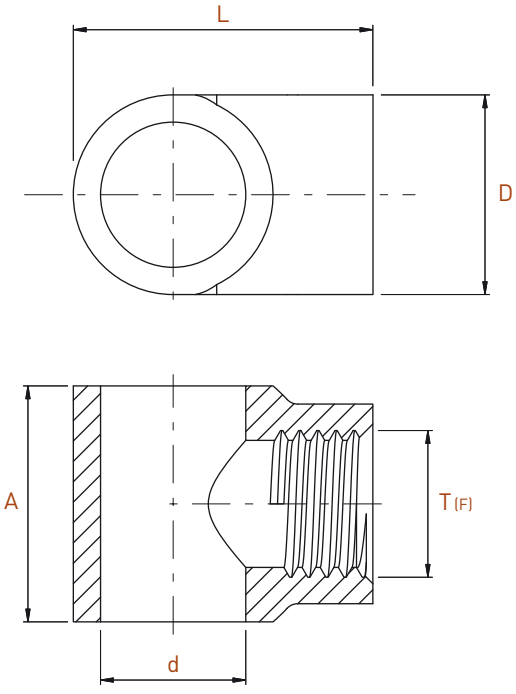


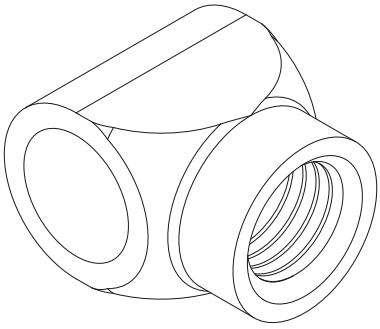


d	D	L	Art. N°
3	4	3.3	**JNG-D3**
4	5.5	4.5	**JNG-D4**
6	8.5	7	**JNG-D6**

Banjos courts femelles
Kurzer Innengewinde-Banjo
Short female Banjo

JCBF

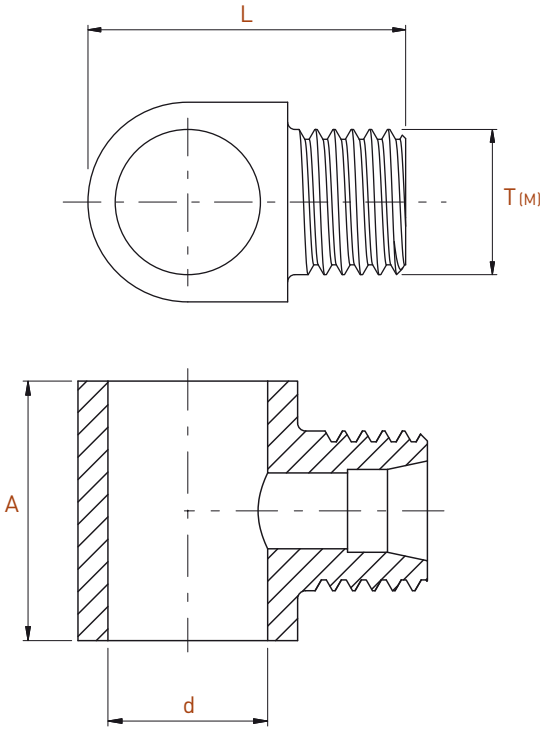




T (F)	A	L	d	D	Art. N°
M6	10	12.5	6	9	**JCBF-Ø6-M6**
M8X1	13	16.5	8	11	**JCBF-Ø8-M8X1**
	13	18.5	10	11	**JCBF-Ø10-M8X1**
BSP1/8	13	19.5	10	13	**JCBF-Ø10-BSP1/8**

JCBM

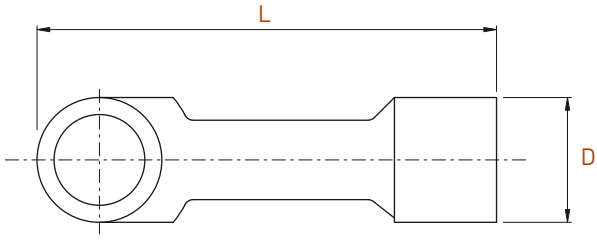
Banjos courts mâles
Kurze Außengewinde-Banjo
Short male Banjo

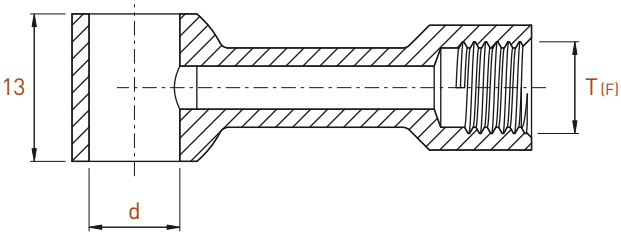


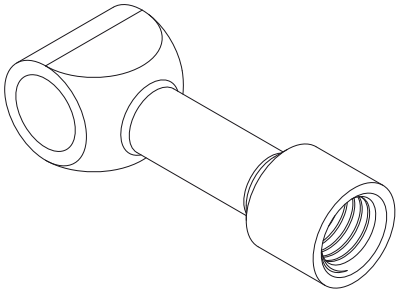
T (M)	A	L	d	Art. N°
M6	10	14	6	**JCBM-Ø6-M6**
M8X1	13	17.5	8	**JCBM-Ø8-M8X1**
	13	19.5	10	**JCBM-Ø10-M8X1**

Banjos longs droits femelles
Lange Innengewinde-Banjo
Long straight female Banjo

JABF



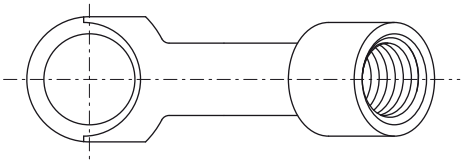


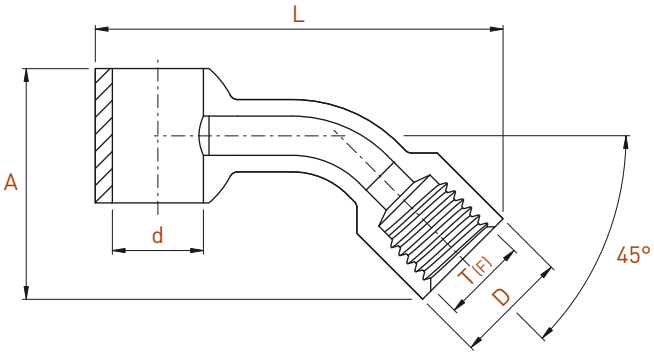


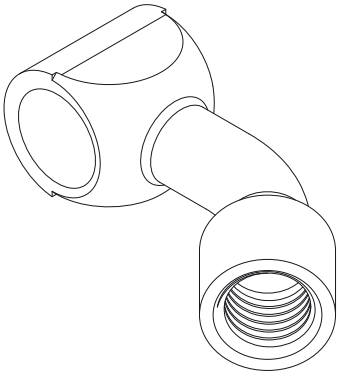
T (F)	A	L	d	D	Art. N°
M6	10	31.5	6	9	**JABF-Ø6-M6**
M8X1	13	40.5	8	11	**JABF-Ø8-M8X1**
	13	42.5	10	11	**JABF-Ø10-M8X1**
BSP1/8	13	42.5	10	13	**JABF-Ø10-BSP1/8**

JABF-45°

Banjos longs coudés femelles
Lange 45° Innengewinde-Banjos
Long curved female banjos



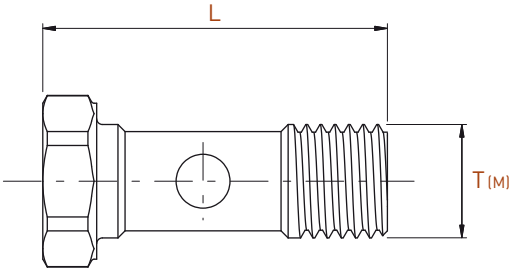


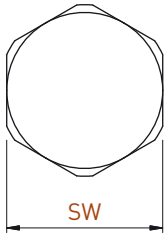


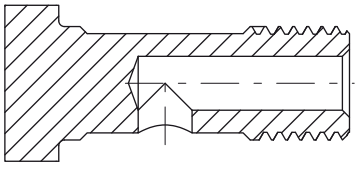
T (F)	A	L	d	D	Art. N°
M6	10	33	6	9	**JABF-Ø6-M6-45°**
M8X1	11.8	40	8	11	**JABF-Ø8-M8X1-45°**
	13	40.5	10	11	**JABF-Ø10-M8X1-45°**

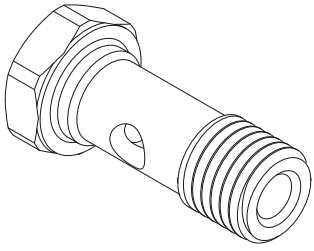
Vis Banjo
Hohlschrauben einfach
Banjo screws

JEB





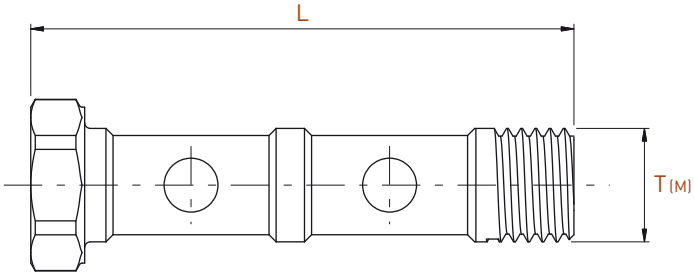


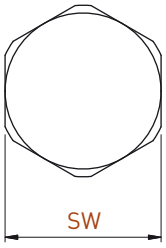


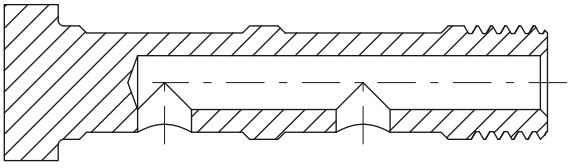
T (M)	L	SW	Art. N°
M5	18.3	8	**JEB-M5-L18**
M6	18.8	8	**JEB-M6-L19**
M8X1	24.3	11	**JEB-M8X1-L24**
BSP1/8	26	13	**JEB-BSP1/8-L26**

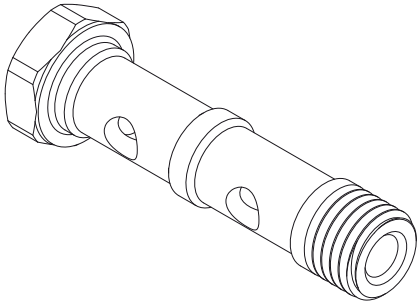
JEB-DUO

Vis Banjo doubles
Hohlschrauben doppelt
Double banjo screws





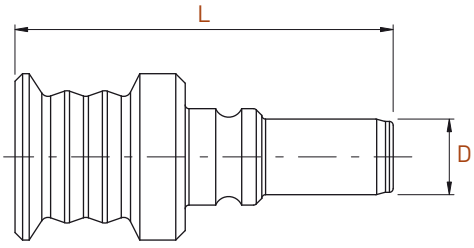


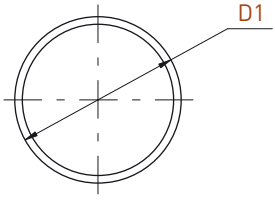


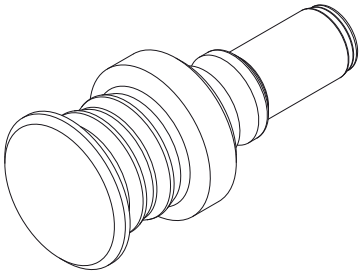
T (M)	L	SW	Art. N°
M6	29.8	8	**JEB-M6-L30-DUO**
M8X1	38.3	11	**JEB-M8X1-L38-DUO**
BSP1/8	40	13	**JEB-BSP1/8-L40-DUO**

Fiches de verrouillage
Verschlußstecker
Sealing connecting plugs

JVB



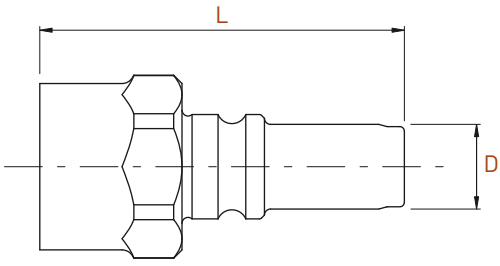


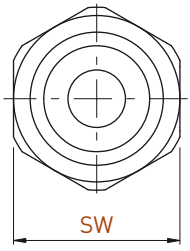


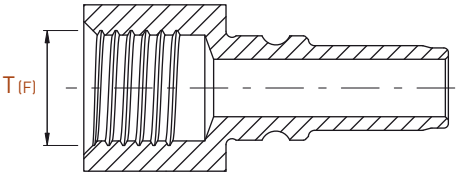
D	D1	L	Art. N°
4	8.8	20	**JVB-D4**
6	12	27	**JVB-D6**

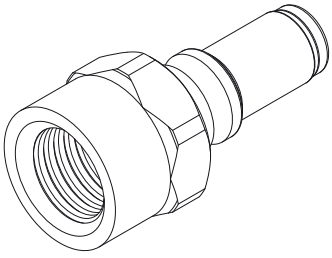
JVF

Fiches de connexion
Innengewindestecker
Connecting plugs





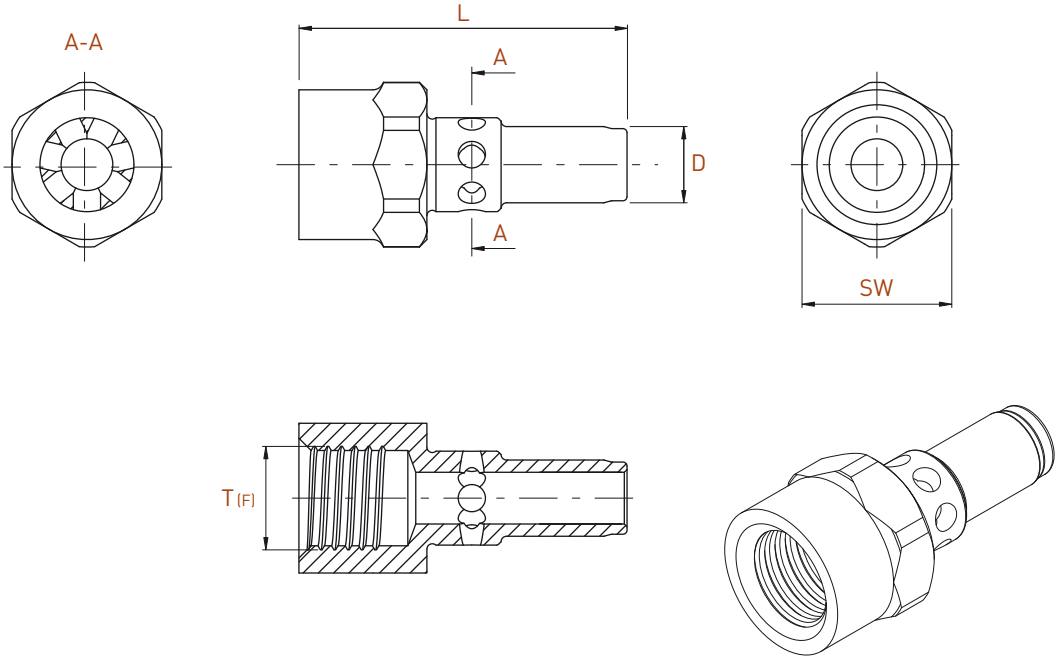




D	T (F)	L	SW	Art. N°
4	M6	18.3	8	**JVF-M6-D4**
6	M8X1	24	11	**JVF-M8X1-D6**
6	BSP1/8	25.5	11	**JVF-BSP1/8-D6**

Fiches de connexion fixes femelles
Innengewindestecker mit Verdrehsicherung
Female positionning connection plugs

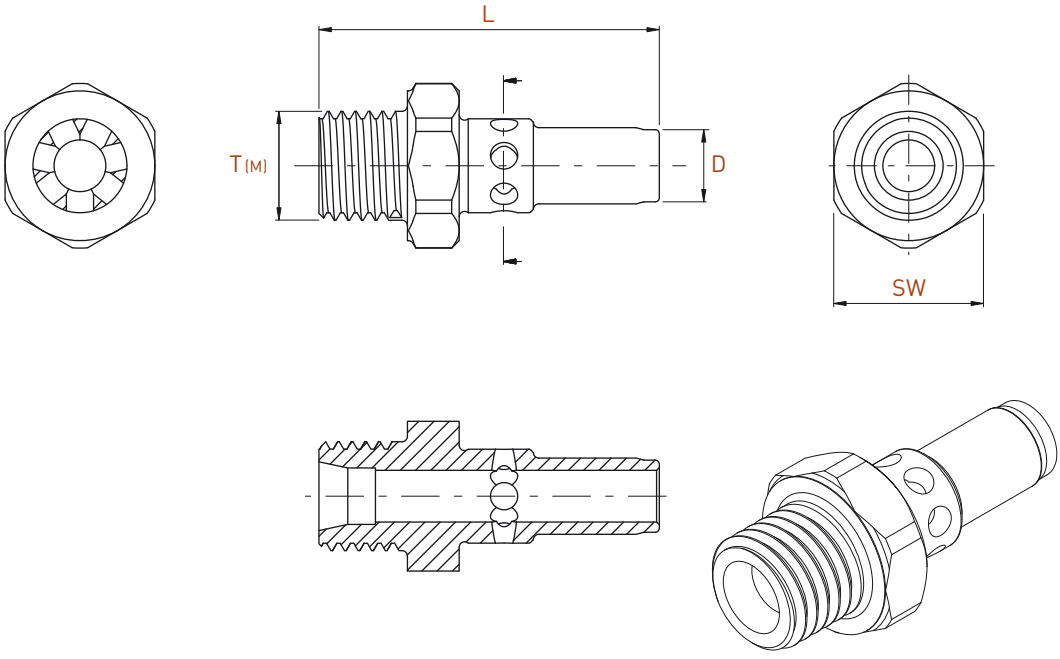
JWF



D	T (F)	L	SW	Art. N°
4	M6	18.3	8	**JWF-M6-D4**
6	M8X1	24	11	**JWF-M8X1-D6**

JWM

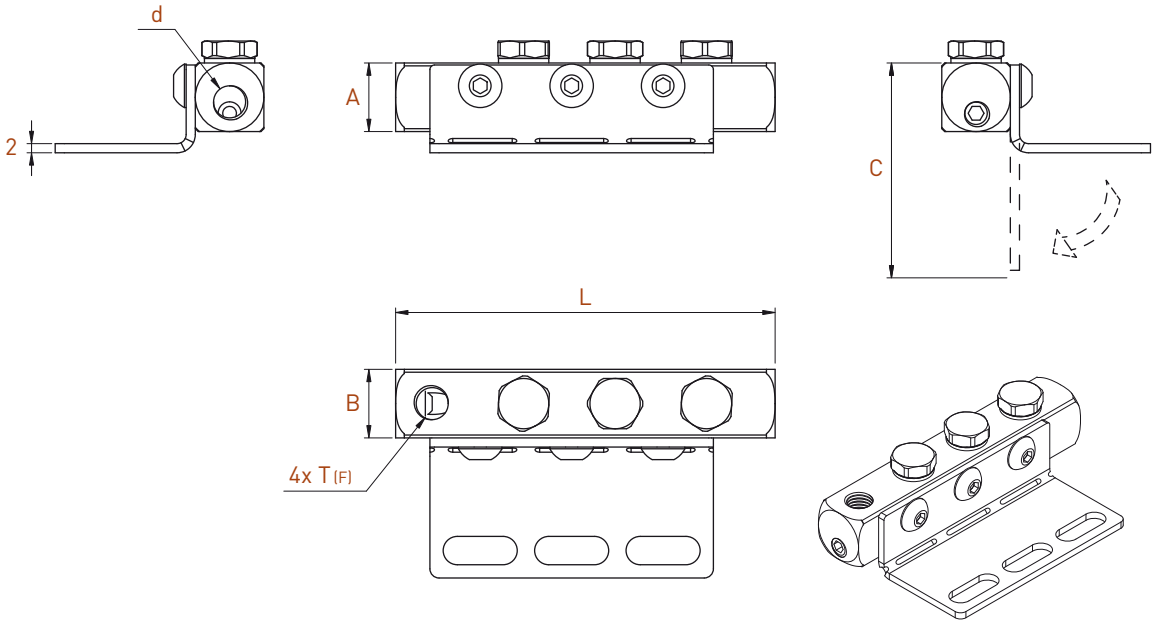
Fiches de connexion fixes mâles
Aussengewindestecker mit Verdrehsicherung
Male positionning connection plugs



D	T (M)	L	SW	Art. N°
4	M6	18.3	8	**JWM-M6-D4**
6	M8X1	25	11	**JWM-M8X1-D6**

Blocs de distribution
Kühlmittelverteiler
Distribution blocks

JK

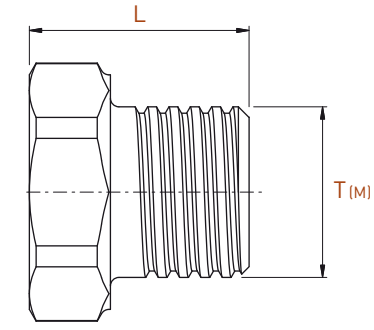


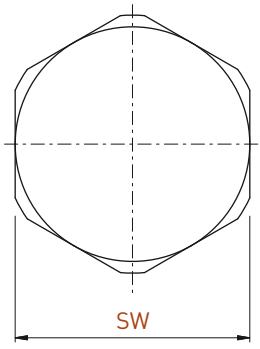
T (F)	A	B	C	d	L	Art. N°
M5	10	10	37	M5	62	**JK-M5-1010-4T**
M6	10	10	37	M6	62	**JK-M6-1010-4T**
M8X1	15	15	47	M8X1	83	**JK-M8X1-1515-4T**
BSP1/8	15	15	47	BSP1/8	83	**JK-BSP1/8-1515-4T**

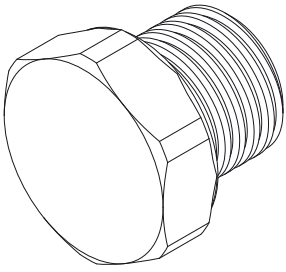
Qty	Livré avec	Mitgeliefert	Supplied with
1	Plaque de serrage pliable	Faltbare Klemmplatte	Foldable clamping plate
3	Vis bombée	Linsenkopfschraube	Domed clamping screw
3	Vis sans tête bouchon	Dichtungsschraube	Sealing screw
3	Joint d'étanchéité en cuivre	Kupferdichtungsringe	Copper sealing basket
1	Vis sans tête bouchon	Dichtungsschraube	Sealing screw

JBB

Bouchons d'étanchéité
Verschlußstopfen
Sealing plugs



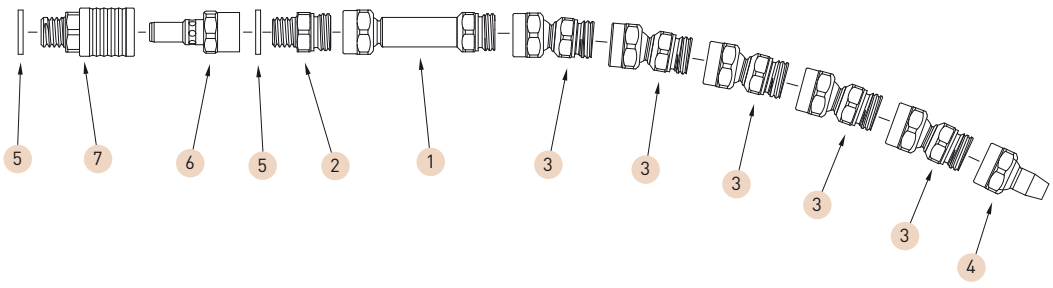


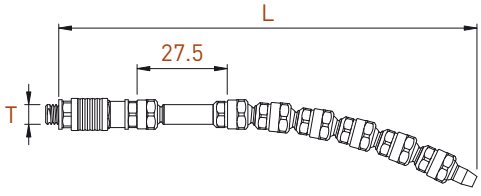


SW	T (M)	L	Art. N°
8	M5	7.3	**JBB-M5-L7.0**
8	M6	7.8	**JBB-M6-L8.0**
11	M8X1	10.3	**JBB-M8X1-L10.0**
11	BSP1/8	10.3	**JBB-BSP1/8-L10.0**

Kit articulé avec buse d'arrosage
Gelenkkit mit Kühlungsdüse
Articulated kit with coolant nozzle

JKIT-AR3





Ref	Qty	Composition du kit Zusammensetzung Kit Kit composition
1	1	JAR3-L27.5
2	1	JRMM-AR3-M6-L3.0
3	5	JAR3-L12.5
4	1	JJ-AR3-D3-L9
5	2	JO-M6
6	1	JWF-M6-D4
7	1	JS-M6-D4

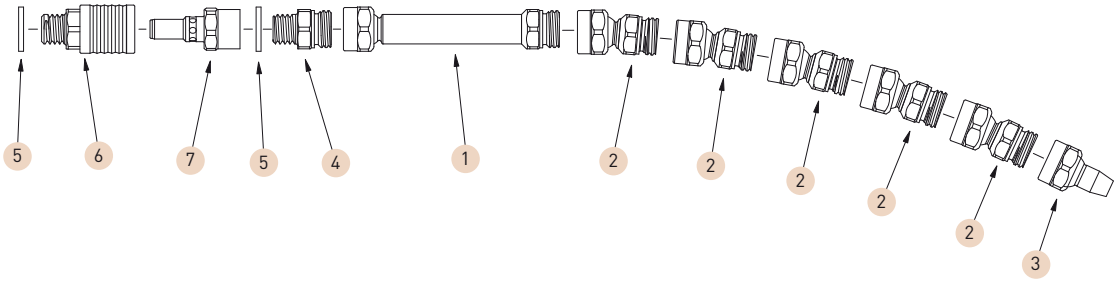
T (M)	L	**Art. N°**
M6	130	**JKIT-AR3-M6-D3-130**

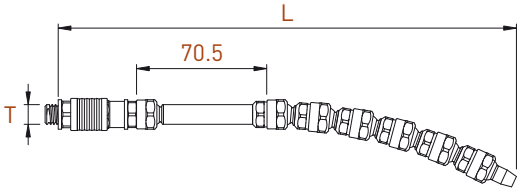
Pression max Max. Druck Max. pressure	Couple de serrage Anzugsmoment Torque setting
150 bar (2.175psi)	**1.8 Nm**

Option recommandée Empfohlene Option Recommended option	Page Seite Page
C-AR3	18.51

JKIT-AR6

Kit articulé avec buse d'arrosage
Gelenkkit mit Kühlungsdüse
Articulated kit with coolant nozzle





Ref	Qty	Composition du kit Zusammensetzung Kit Kit composition
1	1	JAR6-L70.5
2	5	JAR6-L20.5
3	1	JJ-AR6-D6-L16
4	1	JRMM-AR6-M8X1-L4
5	2	JO-M8X1
6	1	JS-M8X1-D6
7	1	JWF-M8X1-D6

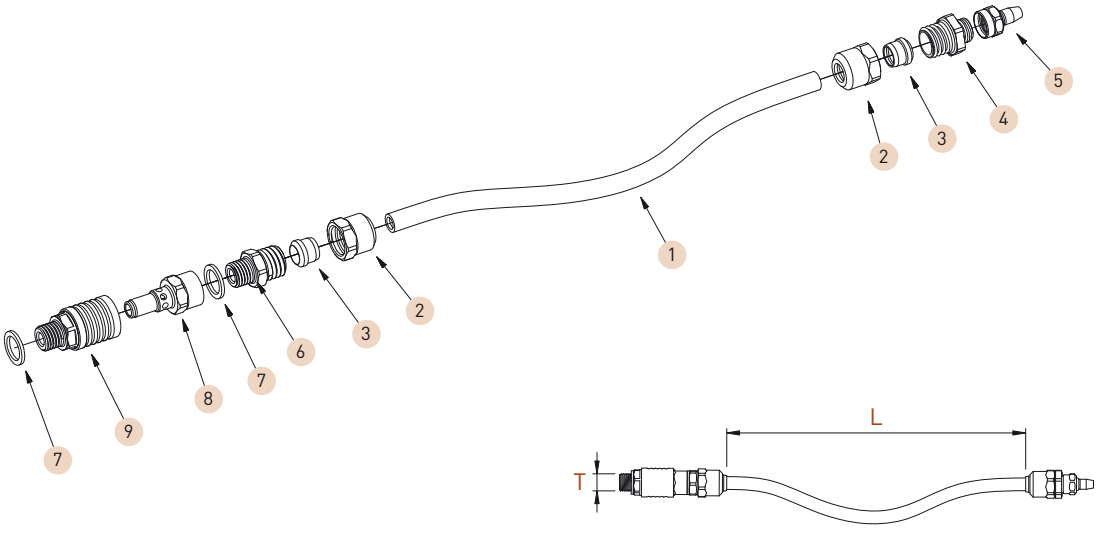
T (M)	L	**Art. N°**
M8X1	225	**JKIT-AR6-M8X1-D6-225**

Pression max Max. Druck Max. pressure	Couple de serrage Anzugsmoment Torque setting
100 bar (1.450 psi)	**6 Nm**

Option recommandée Empfohlene Option Recommended option	Page Seite Page
C-AR6	18.51

Kit tube en cuivre avec buse d'arrosage
Kit Kupferrohr mit Kühlungsdüse
Kit copper tube with coolant nozzle

JKIT-CU

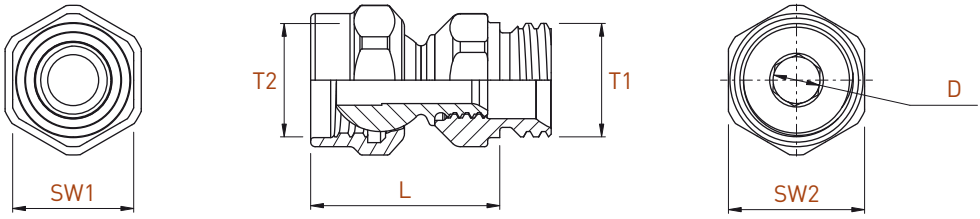


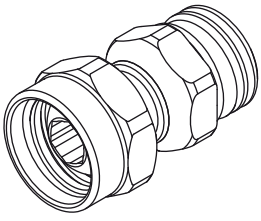
Ref	Qty	Composition du kit Zusammensetzung Kit Kit composition
1	1	JT-CU
2	2	JN-M10-D6
3	2	JNG-D6
4	1	JRMM-AR3-M10-L3.0
5	1	JJ-AR3-D3-L9
6	1	JRMM-M10-M8X1-L3.5
7	2	JO-M8X1-D6
8	1	JWF-M8X1-D6
9	1	JS-M8X1-D6

T (M)	L	**Art. N°**
M8X1	305	**JKIT-CU-AR3-M8X1-D3-305**

Pression max Max. Druck Max. pressure
= 220 Bar (3.190 PSI)

JAR

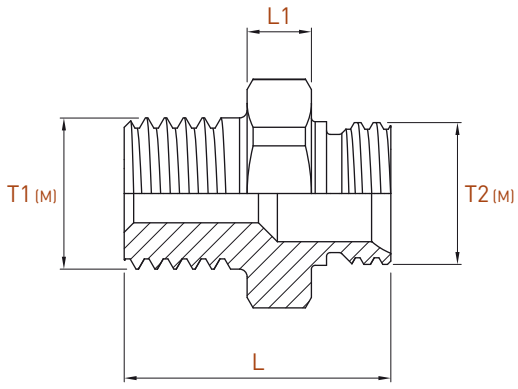


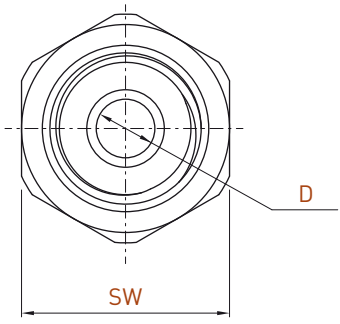


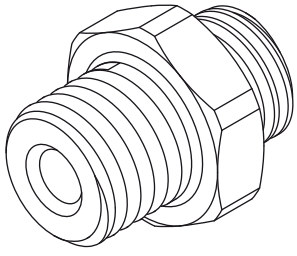
T1 (M)	T2 (F)	L	D	SW1	SW2	Art. N°
M7.5	M7.5	12.5	3	8	9	**JAR3-L12.5**
		27.5	3			**JAR3-L27.5**
		42.5	3			**JAR3-L42.5**
M13	M13	20.5	6	13	15	**JAR6-L20.5**
		45.5	6			**JAR6-L45.5**
		70.5	6			**JAR6-L70.5**

Connecteurs mâles/mâles
Anschlüsse Außengewinde
Male connectors

JRMM-AR



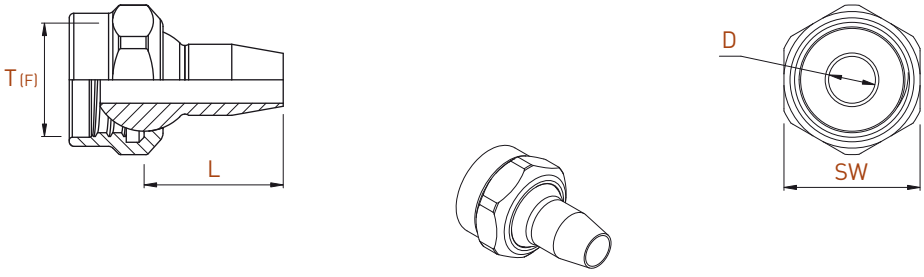




T1 (M)	T2 (M)	L	L1	D	SW	Art. N°
M6	M7.5	12	3	3	8	**JRMM-AR3-M6-L3.0**
M8X1	M7.5	14	3.5	3	11	**JRMM-AR3-M8X1-L3.5**
M10X1	M7.5	15	3	3	11	**JRMM-AR3-M10X1-L3.0**
M8X1	M13	17	4	6	13	**JRMM-AR6-M8X1-L4.0**
M10X1	M13	18	4	6	13	**JRMM-AR6-M10X1-L4.0**
BSP 1/8"	M13	18	4	6	13	**JRMM-AR6-BSP1/8-L4.0**

JJ-AR-SHORT

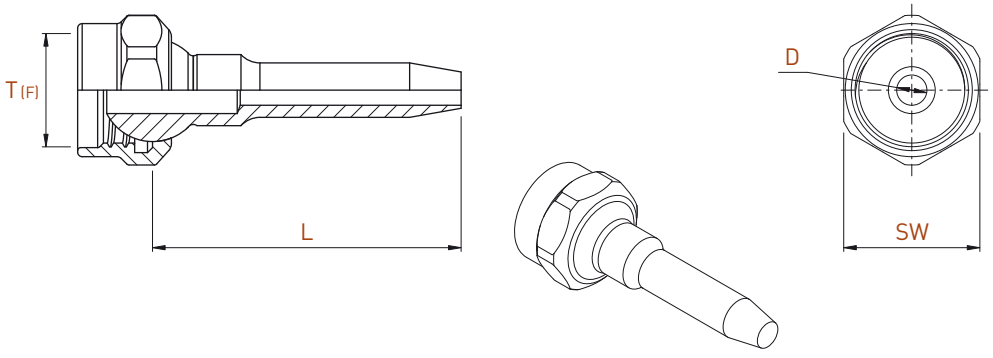
Buses
Düse
Nozzle



T (F)	L	D	SW	Art. N°
M7.5	9	3	9	**JJ-AR3-D3-L9**
M13	16	6	15	**JJ-AR6-D6-L16**

JJ-AR-LONG

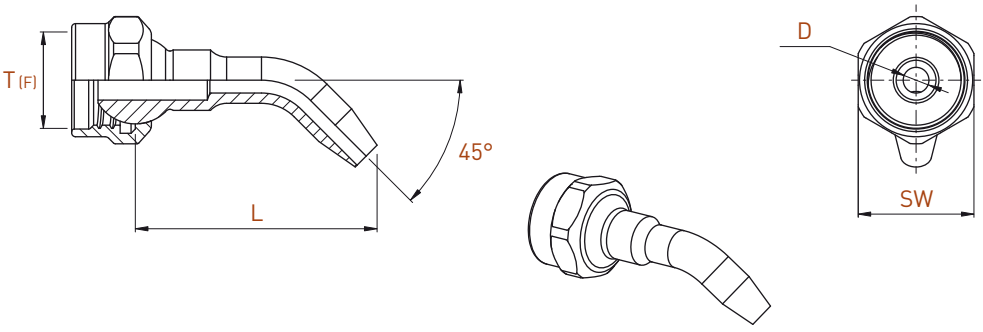
Buses
Düse
Nozzle



T (F)	L	D	SW	Art. N°
M7.5	20	2	9	**JJ-AR3-D2-L20**
M13	35	3	15	**JJ-AR6-D3-L35**

Buses
Düse
Nozzle

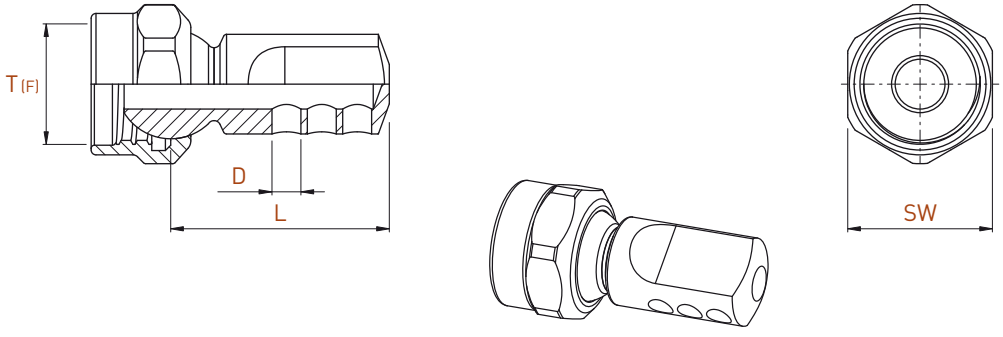
JJ-AR-CURVED



T (F)	L	D	SW	Art. N°
M7.5	19	2	9	**JJ-AR3-D2-L19-45°**
M13	23,5	6	15	**JJ-AR6-D6-L23.5-45°**

Buses
Düse
Nozzle

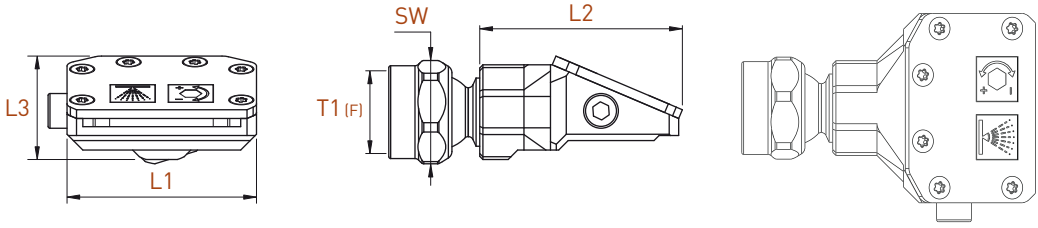
JJ-AR-3XD



T (F)	L	D	SW	Art. N°
M7.5	15	1.8	9	**JJ-AR3-3XD1.8-L13.5**
M13	24	3.4	15	**JJ-AR6-3XD3.4-L24**

JJ-AR6-V

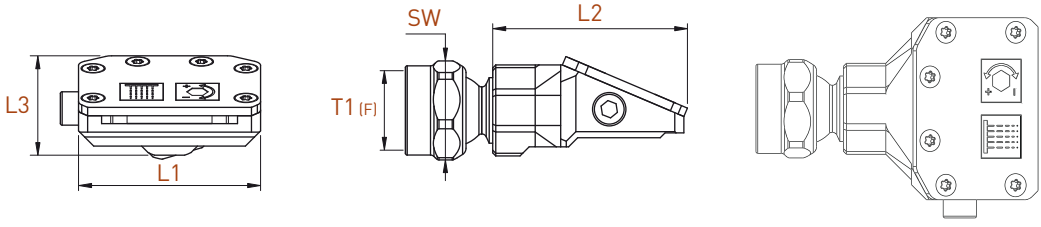
Buses plates jet diffusé
Flachdüse mit breitem Sprühstrahl
Diverging flat nozzle



T1 (F)	L1	L2	L3	SW	Art. N°
ML13	20	30.6	16.4	15	**JJ-AR6-V20**
	30	32			**JJ-AR6-V30**
	40	38.5			**JJ-AR6-V40**
	50	43.5			**JJ-AR6-V50**

JJ-AR6-W

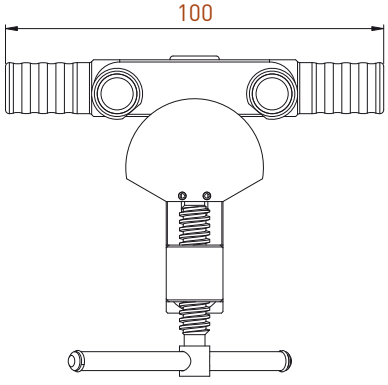
Buses plates jet droit
Flachdüse mit geradem Sprühstrahl
Straight flat nozzle

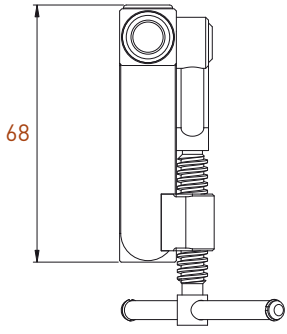


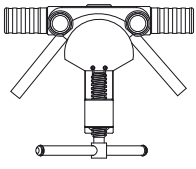
T1 (F)	L1	L2	L3	SW	Art. N°
M13	20	30.6	16.4	15	**JJ-AR6-W20**
	30	32			**JJ-AR6-W30**
	40	38.5			**JJ-AR6-W40**
	50	43.5			**JJ-AR6-W50**

Appareil de cintrage
Biegegerät
Bending tool

JTB





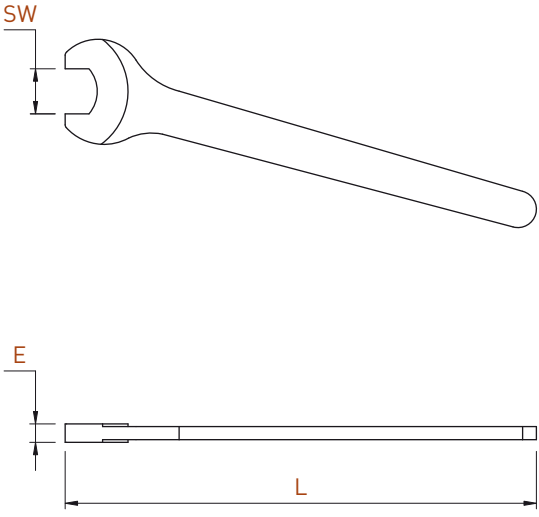


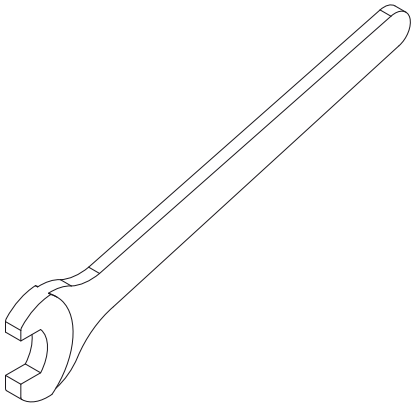
Art. N°
JTB-D6

TEF

Rubans d'étanchéité pour filetage
Gewindedichtungsbänder
Thread sealing tapes

Largeur Breite Width	Épaisseur Dicke Thickness	Longueur Länge Length	**Art. N°**
6 mm	0.1 mm	12 m	**TEF-6010**





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11	3.7	110	**C-SW11-E3.7**
13	5.8	130	**C-SW13-E5.8**
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Légende des symboles
Symbollegende
Symbol Legend

E	L	Art. N°	TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)
1.0	5	**731RU-1.0**	●		●			
1.2	5	**731RU-1.2**	●		●			
1.5	7	**731RU-1.5**	●		●	●		●
2.0	7	**731RU-2.0**	●		●			

● Article standard
Standardartikel
Standard item

P Acier
Stahl
Steel

M Inox
Rostfreistahl
Stainless steel

N Alliages d'aluminium et non ferreux
Aluminium- und Nichteisenlegierungen
Aluminium and non-ferrous alloys

S Titane et superalliages
Titan und Superlegierungen
Titanium and superalloys

H Acier trempé
Gehärteter Stahl
Hardened steel

K Fonte
Gusseisen
Cast iron

O Matière exotique
Exotisches material
Exotic material

Carbure
Hartmetall
Carbide

TiAlN

K20

µK20 + revêtement PVD
µK20 + PVD Beschichtung
µK20 + PVD coating

P ★★★★★
M ★★★★★
N ★★★★☆
S ★★★★☆

TF F M E

Épaisseur du revêtement
Dicken der Beschichtung
Thickness of the coating

TF Très fin
Sehr dünn
Very thin

F Fin
Dünn
Thin

M Moyen
Mittel
Medium

E Épais
Dick
Thick

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