

APPLITEC

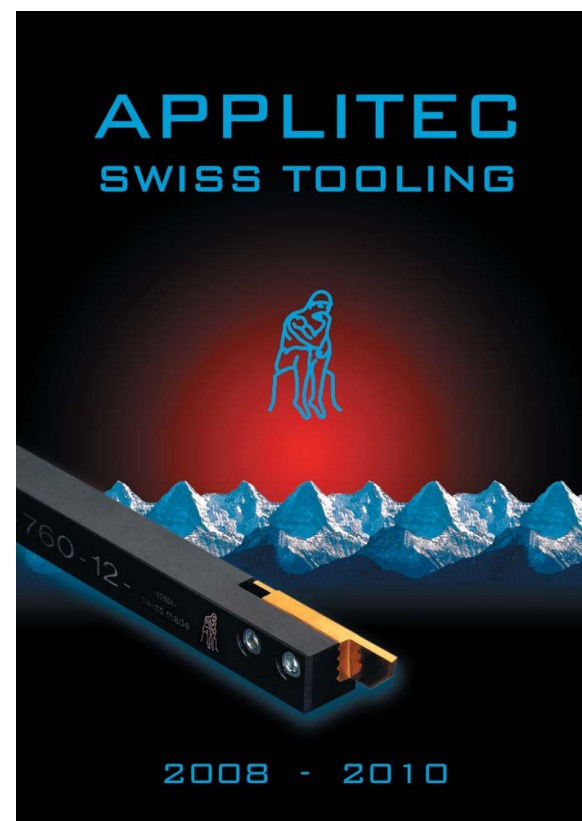
PRODUCT LINES



Outils de hautes performances
pour le décolletage

Hochleistungs-Werkzeuge
für Drehautomaten

High performance tooling
for automatic lathes



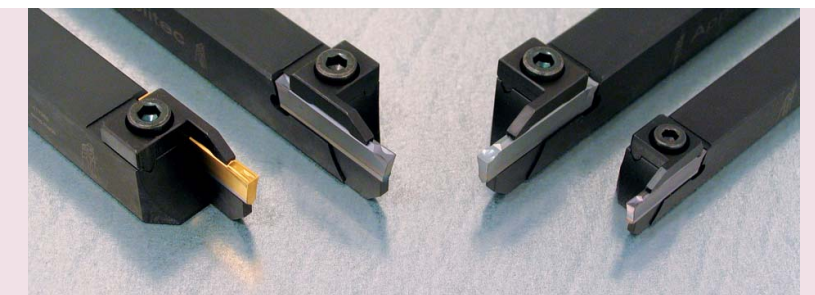
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TOP-LINE



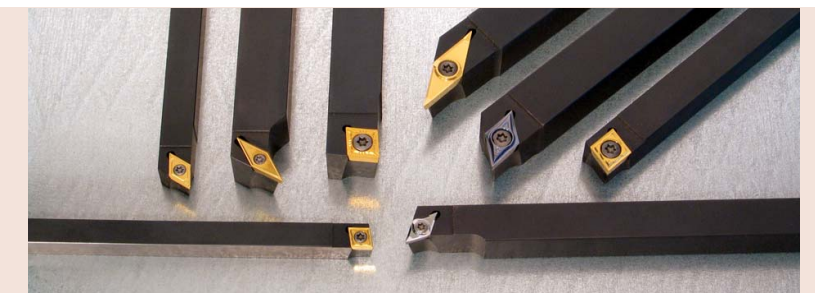
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CUT-LINE



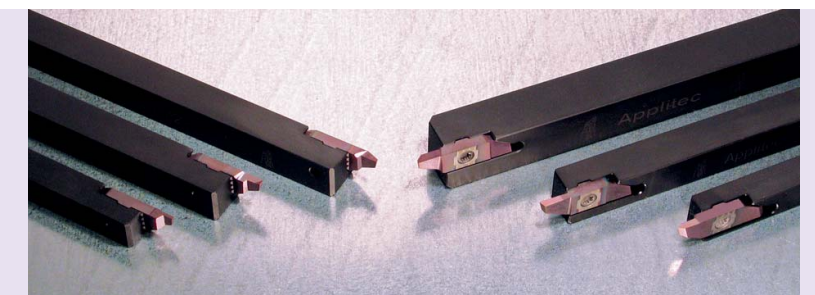
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ISO-LINE



3

ECO-LINE



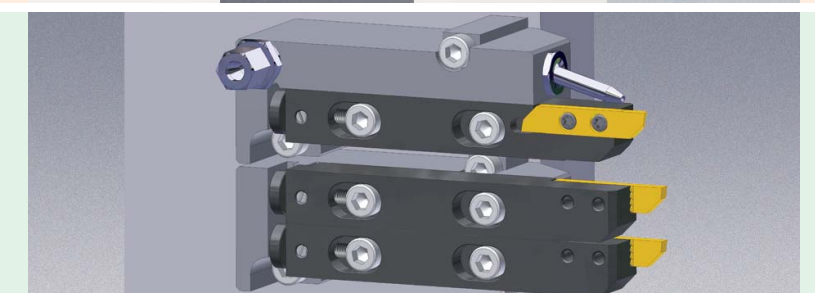
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TOOLING-LINE



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MODU-LINE



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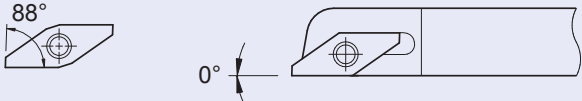
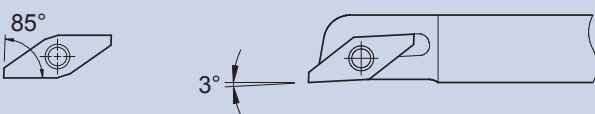
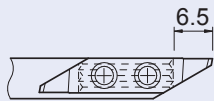
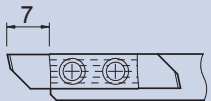
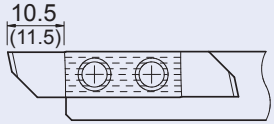
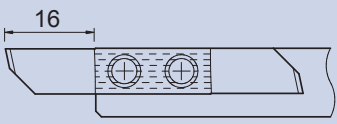
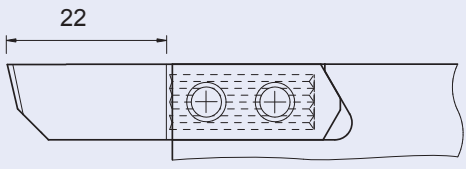
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	750	760	1.36 - 1.57
	770	780	1.58 - 1.61
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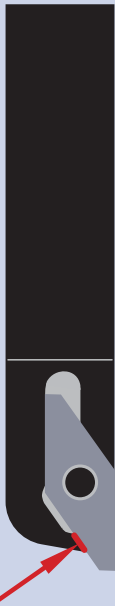
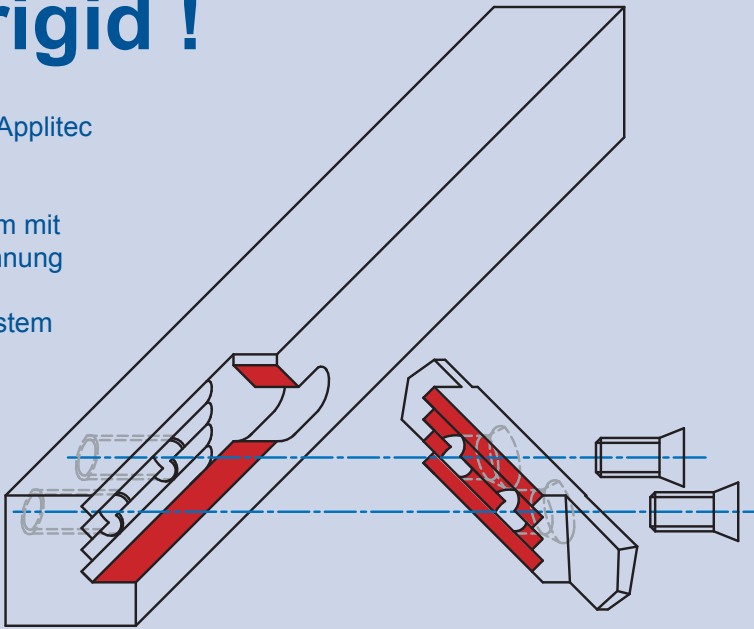
100% rigid !

Système de serrage Applitec à denture décalée

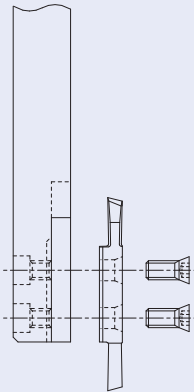
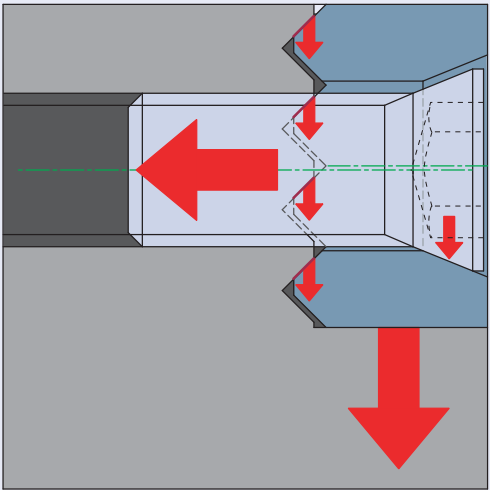
Applitec-Spannsystem mit verschobener Verzahnung

Applitec clamping system with shifted teeth

patented



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



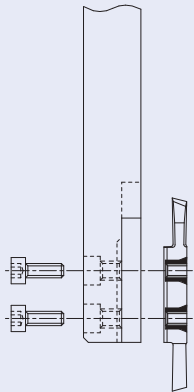
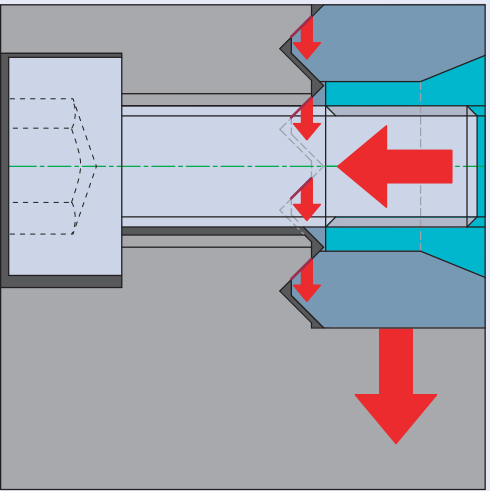
Serrage type B
Spannsystem Typ B
Clamping system type B

Changement de la plaquette possible dans la machine, sans démontage du porte-outil

WSP-Austauschmöglichkeit in der Maschine, ohne Halter Ausbau

The insert can be changed in the machine, without removing the tool holder

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



Nuances micro-grain universelles tenaces
Universal zähe Feinkorn-Sorten
Universal tough micro-grain grades

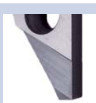
N (μK20) non revêtu unbeschichtet uncoated	TiN μK20 + revêtement PVD μK20 + PVD Beschichtung μK20 + PVD coating	TiAlN μK20 + revêtement PVD μK20 + PVD Beschichtung μK20 + PVD coating
nuance micro-grain tenace 1er choix comme base pour un revêtement supporte les coupes interrompues et autres conditions d'usinage défavorables	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	excellente nuance universelle 1er choix pour l'usinage des aciers, aciers inoxydables et alliages de titane très bonne résistance à la température
zähe Feinkorn-Sorte beste Basis für eine Beschichtung geeignet für unterbrochene Schnitte und andere ungünstige Bearbeitungsbedingungen	Sorte für die Bearbeitung von weichen Werkstoffen mit Tendenz zur Bildung von Aufbauschneiden sehr geringer Reibwert für die Bearbeitung von Titan nicht geeignet	beste Universal-Sorte bestens geeignet für die Bearbeitung von Stahl, rostfreiem Stahl und Titan Legierungen sehr gute Warmfestigkeit
tough micro-grain grade first choice as base for coating suitable for interrupted cut and other unfavourable machining conditions	grade for the machining of low resistance materials which causes edge build-up very low friction ratio not suitable for titanium machining	best universal grade first choice for steel, stainless steel and titanium alloys machining very good heat resistance

Nuances micro-grain à dureté élevée
Erschleissfeste Feinkorn-Sorten
Wear resistant micro-grain grades

HN (μK10) non revêtu unbeschichtet uncoated	HTiN μK10 + revêtement PVD μK10 + PVD Beschichtung μK10 + PVD coating	HTiAlN μK10 + revêtement PVD μK10 + PVD Beschichtung μK10 + PVD coating
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	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	nuance très résistante à l'usure pour l'usinage en finition dans des conditions favorables des aciers, aciers inoxydables et alliages de titane
verschleissfeste Feinkorn-Sorte empfehlenswert für die Bearbeitung von niedrig legiertem Titan nicht geeignet für unterbrochene Schnitte und andere ungünstige Bearbeitungsbedingungen	Sorte für die Feinbearbeitung von weichen Werkstoffen mit Tendenz zur Bildung von Aufbauschneiden sehr geringer Reibwert für die Bearbeitung von Titan nicht geeignet	sehr verschleissfeste Sorte für die Feinbearbeitung von Stahl, rostfreiem Stahl und Titan Legierungen bei guten Bearbeitungsbedingungen
wear resistant micro-grain grade suitable for the machining of low alloyed titanium not suitable for interrupted cut and other unfavourable machining conditions	grade for light machining of low resistance materials which causes edge build-up very low friction ratio not suitable for titanium machining	very wear resistant grade for light machining of steel, stainless steel and titanium alloys under favourable machining conditions

Géométries de coupe : conseils d'utilisation
Spanformgeometrien : Anwendungs-Empfehlungen
Cutting geometries : application recommendations

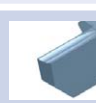
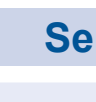
Series 300

Géométries de coupe Spanformgeometrien Cutting geometries		Acier de décolletage Automatenstahl Free-cutting steel	Acier Stahl Steel	Acier inoxydable Rostfreistahl Stainless steel	Aluminium	Titane Titan Titanium	Laiton, bronze Messing, Bronze Brass, bronze	Cuivre Kupfer Copper	1er choix 1er Wahl 1st choice
									recommandé (voir remarques ci-dessous) empfohlen (siehe weitere Bemerkungen) recommended (see remarks here under)
									Ø pour pièces fragiles de très petits diamètres für empfindliche und sehr kleine Werkstücke for fragile and very small workpieces
	3_7								géométrie universelle, très bonne maîtrise du copeau allgemeine Geometrie, sehr gute Spankontrolle all-round insert with efficient chip control
	3_8	Ø	Ø	Ø					géométrie plate classique Standard Flach-Geometrie standard flat geometry
	3_8 vs				Ø	Ø		Ø	brise-copeau pour usinage léger en finition Spanbrecher für leichte Schlichtbearbeitung chip-breaker for light finishing operation
	3_8 vx								très bonne maîtrise du copeau sehr gute Spankontrolle very efficient chip control
	3_8 x								coupe positive traditionnelle Standard positive Geometrie standard positive geometry
	3_9								témoin plat sur la coupe pour réduire les vibrations Vibrations-Reduzierung durch Flachfase auf Schneidkante vibration reduction through flat ended cutting edge
	3_7 EN								arête renforcée (augmente l'effort de coupe) verstärkte Schneidkante (Schneidkraft-Erhöhung) reinforced cutting edge (increases cutting force)

Géométries de coupe : conseils d'utilisation
Spanformgeometrien : Anwendungs-Empfehlungen
Cutting geometries : application recommendations

Series 700

tronçonnage - abstechen - parting off

Géométries de coupe Spanformgeometrien Cutting geometries		Acier de décolletage Automatenstahl Free-cutting steel	Acier Stahl Steel	Acier inoxydable Rostfreistahl Stainless steel	Aluminium	Titane Titan Titanium	Laiton, bronze Messing, Bronze Brass, bronze	Cuivre Kupfer Copper	1er choix 1er Wahl 1st choice
									recommandé (voir remarques ci-dessous) empfohlen (siehe weitere Bemerkungen) recommended (see remarks here under)
									Ø pour pièces fragiles de très petits diamètres für empfindliche und sehr kleine Werkstücke for fragile and very small workpieces
7_1									
	0°		Ø	Ø	Ø	Ø		Ø	permet un réaffûtage aisé erlaubt einfaches Nachschleifen allows easy regrinding
	x4°				Ø	Ø		Ø	réduit l'effort de coupe, réaffûtable reduziert Schneidkräfte, nachschleifbar decreases cutting force, allows regrinding
	xf								pour matières difficiles (pointe renforcée) für schwierige Werkstoffe (verstärkte Spitze) for difficult materials (reinforced point)
	x12°								très bonne maîtrise du copeau sehr gute Spankontrolle very efficient chip control
	x25°								pour matières collantes faisant de très longs copeaux für weiche Werkstoffe mit sehr lange Späne for long chipping sticky materials
	u								pour resserrer le copeau, réaffûtage aisé für Span-Verschmälung, einfaches Nachschleifen to narrow the chips, easy regrinding

Series 700

tournage - Drehen - turning

Géométries de coupe Spanformgeometrien Cutting geometries		Acier de décolletage Automatenstahl Free-cutting steel	Acier Stahl Steel	Acier inoxydable Rostfreistahl Stainless steel	Aluminium	Titane Titan Titanium	Laiton, bronze Messing, Bronze Brass, bronze	Cuivre Kupfer Copper	1er choix 1er Wahl 1st choice
									recommandé (voir remarques ci-dessous) empfohlen (siehe weitere Bemerkungen) recommended (see remarks here under)
									Ø pour pièces fragiles de très petits diamètres für empfindliche und sehr kleine Werkstücke for fragile and very small workpieces
7_2 / 7_3 / 7_4									
	0°		Ø	Ø	Ø	Ø		Ø	permet un réaffûtage aisé erlaubt einfaches Nachschleifen allows easy regrinding
	x								coupe positive traditionnelle Standard positive Geometrie standard positive geometry
	vx8°								très bonne maîtrise du copeau sehr gute Spankontrolle very efficient chip control
	vx15°								très bonne maîtrise du copeau sehr gute Spankontrolle very efficient chip control
	vs				Ø	Ø		Ø	brise-copeau pour usinage léger en finition Spanbrecher für leichte Schlichtbearbeitung chip-breaker for light finishing operation

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

Matière Werkstoff Material	Tournage Drehen Turning			Tronçonnage Abstechen Cut off		
	Vc (mm/min)	Prof. de passe Schnitttiefe Depth of cut (mm)	Avance Vorschub Feed (mm/U)	Vc (mm/min)	Largeur de coupe Abstechbreite Cutting width (mm)	Avance Vorschub Feed (mm/U)
Acier de décolletage Automatenstahl Free-cutting steel	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	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	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	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	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%	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%	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
Titane Titan Titanium	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
Cuivre, laiton, bronze Kupfer, Messing, Bronze Copper, brass, bronze	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

Indications pour premiers réglages
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 cutting feed	high cutting speed low cutting feed

Remarque importante
Wichtige Bemerkung
Important remark

Souvent, il n'est pas possible d'atteindre les vitesses de coupe préconisées, à cause des limites de la machine.

Les outils Applitec sont spécialement développés pour permettre de hautes performances, même dans des conditions de coupe défavorables.

Des applications non préconisés dans le tableau ci-contre peuvent également s'avérer efficaces.

Wegen begrenzter Maschinenleistung ist es oft nicht möglich, die vorgeschlagenen Schnittgeschwindigkeit zu erreichen.

Applitec Werkzeuge sind besonders entwickelt, um sogar bei ungünstigen Schnittdaten leistungsfähig zu sein.

Die in nebenstehender Tabelle nicht erwähnten Anwendungsfälle können sich auch effizient erweisen.

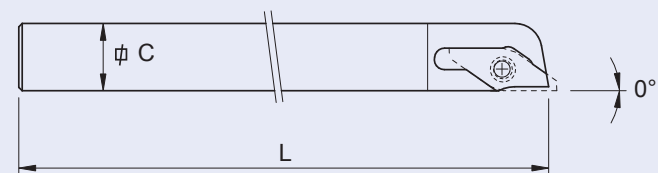
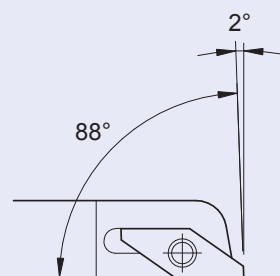
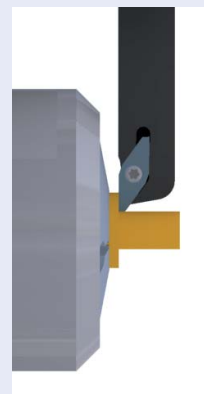
In many cases, it is impossible to reach the recommended cutting speed, due to the machine limits.

Applitec tools are especially designed to be efficient even in bad cutting conditions.

Applications not mentioned in the opposite table can also be efficient.

porte-outils
Halter
holders

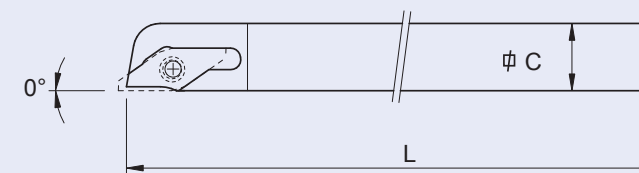
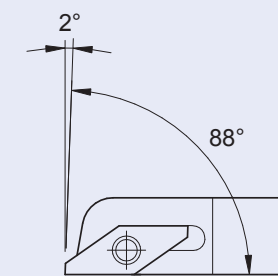
type 310



C	L	Art. N°
7 X 7	115	311
8 X 8	115	312
10 X 10	115	313
12 X 12	115	314
12 X 12	90	314-90
12 X 12	140	314-140
13 X 13	140	314-13
16 X 16	100	315
16 X 16	140	315-140
20 X 20	120	316

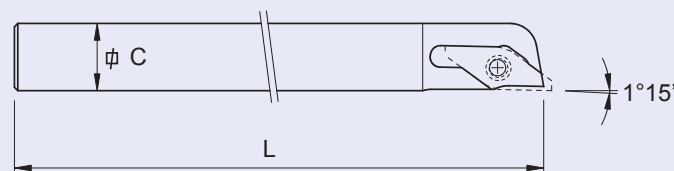
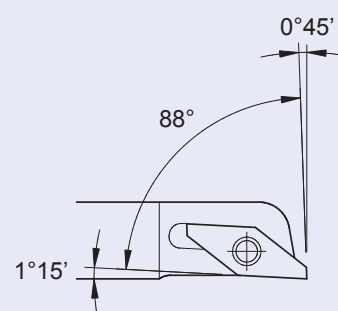
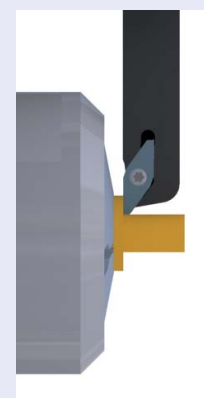
porte-outils
Halter
holders

type 320



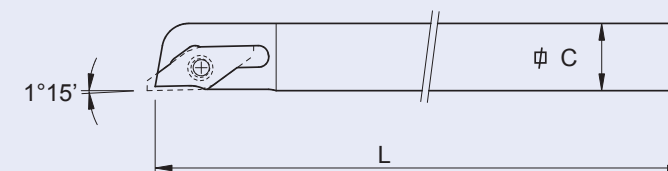
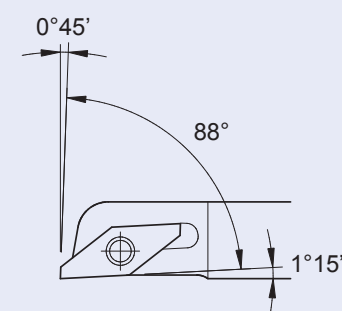
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10 X 10	115	323
10 X 10	140	323-1
12 X 12	115	324
12 X 12	90	324-1
12 X 12	140	324-140
13 X 13	140	324-13
16 X 16	100	325
16 X 16	140	325-140
20 X 20	120	326

type 310-BC



C	L	Art. N°
7 X 7	115	311-BC
8 X 8	115	312-BC
10 X 10	115	313-BC
12 X 12	115	314-BC
12 X 12	90	314-90-BC
12 X 12	140	314-140-BC
13 X 13	140	314-13-BC
16 X 16	100	315-BC
16 X 16	140	315-140-BC
20 X 20	120	316-BC

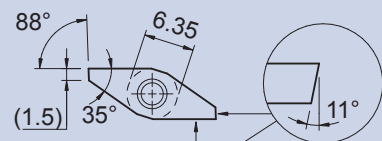
type 320-BC



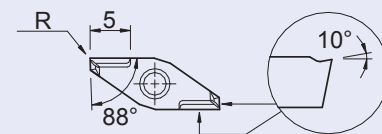
C	L	Art. N°
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8 X 8	115	322-BC
10 X 10	115	323-BC
10 x 10	140	323-1-BC
12 X 12	115	324-BC
12 X 12	90	324-1-BC
12 X 12	140	324-140-BC
13 X 13	140	324-13-BC
16 X 16	100	325-BC
16 X 16	140	325-140-BC
20 X 20	120	326-BC

tourneur avant
vorwärts drehen
front turning

88°

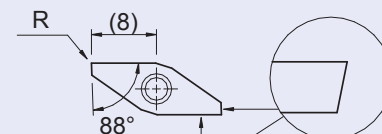


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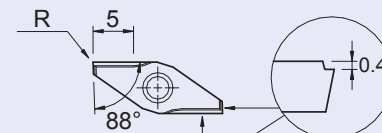
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0.03	317-R03	■	■	■	■	■	■
0.08	317-R08	■	■	■	■	■	■
0.1	317-R10	■	■	■	■	■	■
0.2	317-R20	■	■	■	■	■	■

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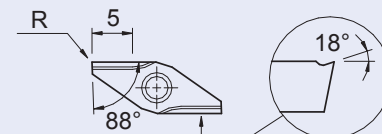
R	Art. N°	TIN	TIALN	N (μK10)
0	318	■	■	■
0.1	318-R10	■	■	■
0.2	318-R20	■	■	■
0.4	318-R40	■	■	■

318VS



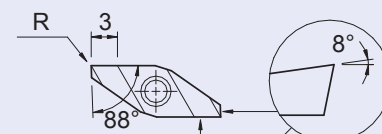
R	Art. N°	TIN	TIALN	N (μK10)
0	318VS	■	■	■
0.1	318VS-R10	■	■	■

318VX



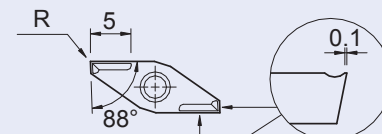
R	Art. N°	TIN	TIALN	N (μK10)
0	318VX	■	■	■
0.05	318VX-R05	■	■	■

318X



R	Art. N°	TIN	TIALN	N (μK10)
0	318X	■	■	■
0.1	318X-R10	■	■	■

319



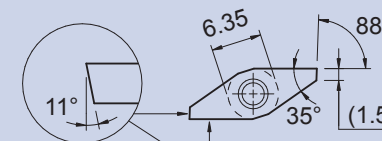
R	Art. N°	TIN	TIALN	N (μK10)
0	319	■	■	■
0.1	319-R10	■	■	■
0.2	319-R20	■	■	■

■ = Standard
□ = Sur demande / Auf Anfrage / On request

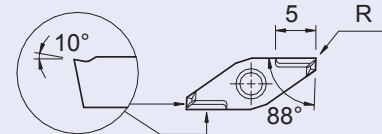
■* = Correspond aux nuances : HTIN
Entspricht den Sorten : HTIALN
Equivalent to grade : HN (μK10)

tourneur avant
vorwärts drehen
front turning

88°

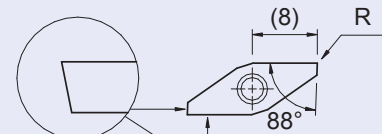


327



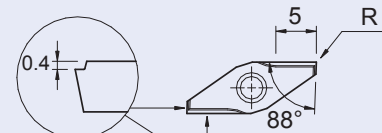
R	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
0	327	■	■	■	■	■	■
0.03	327-R03	■	■	■	■	■	■
0.08	327-R08	■	■	■	■	■	■
0.1	327-R10	■	■	■	■	■	■
0.2	327-R20	■	■	■	■	■	■

328



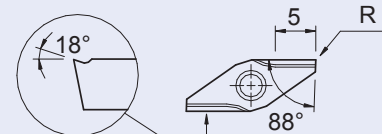
R	Art. N°	TIN	TIALN	N (μK10)
0	328	■	■	■
0.1	328-R10	■	■	■
0.2	328-R20	■	■	■
0.4	328-R40	■	■	■

328VS



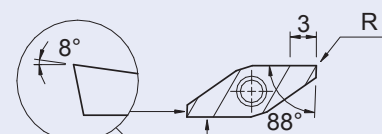
R	Art. N°	TIN	TIALN	N (μK10)
0	328VS	■	■	■
0.1	328VS-R10	■	■	■

328VX



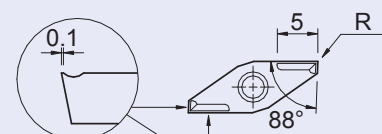
R	Art. N°	TIN	TIALN	N (μK10)
0	328VX	■	■	■
0.05	328VX-R05	■	■	■

328X



R	Art. N°	TIN	TIALN	N (μK10)
0	328X	■	■	■
0.1	328X-R10	■	■	■

329



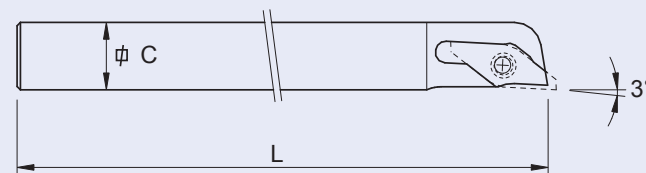
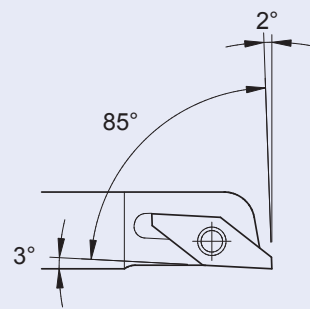
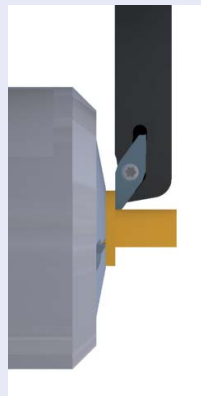
R	Art. N°	TIN	TIALN	N (μK10)
0	329	■	■	■
0.1	329-R10	■	■	■
0.2	329-R20	■	■	■

■ = Standard
□ = Sur demande / Auf Anfrage / On request

■* = Correspond aux nuances : HTIN
Entspricht den Sorten : HTIALN
Equivalent to grade : HN (μK10)

porte-outils
Halter
holders

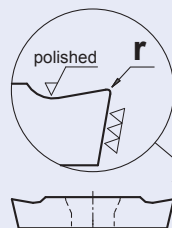
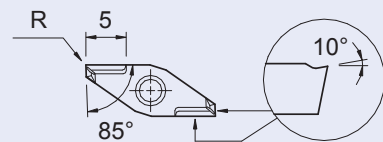
type 330



C	L	Art. N°
8 X 8	115	332
10 X 10	115	333
12 X 12	115	334
12 X 12	90	334-90
12 X 12	140	334-140
13 X 13	140	334-13
16 X 16	100	335
16 X 16	140	335-140
20 X 20	120	336

Plaquette avec arête de coupe renforcée par polissage
WSP mit verstärkter und polierter Schneidkante
Insert with reinforced and polished cutting edge

337-EN

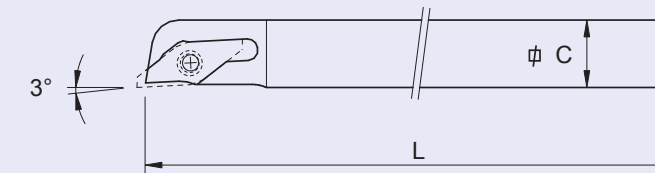
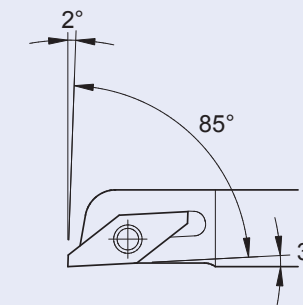
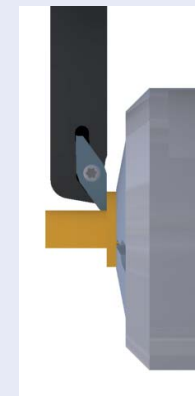


R	Art. N°	TIN TIALN N (μK20)
0	337-EN	■ ■ ■
0.08	337-EN-R08	■ ■ ■
0.1	337-EN-R10	■ ■ ■
0.2	337-EN-R20	■ ■ ■

■ = Standard
□ = Sur demande / Auf Anfrage / On request

porte-outils
Halter
holders

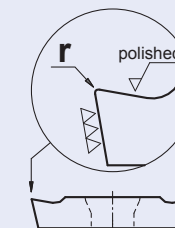
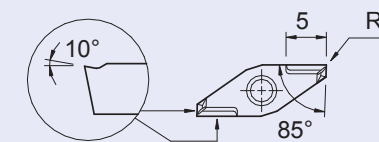
type 340



C	L	Art. N°
8 X 8	115	342
10 X 10	115	343
10 X 10	140	343-1
12 X 12	115	344
12 X 12	90	344-90
12 X 12	140	344-140
13 X 13	140	344-13
16 X 16	100	345
16 X 16	140	345-140
20 X 20	120	346

Plaquette avec arête de coupe renforcée par polissage
WSP mit verstärkter und polierter Schneidkante
Insert with reinforced and polished cutting edge

347-EN

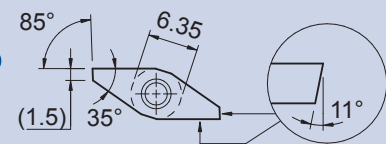


R	Art. N°	TIN TIALN N (μK20)
0	347-EN	■ ■ ■
0.08	347-EN-R08	■ ■ ■
0.1	347-EN-R10	■ ■ ■
0.2	347-EN-R20	■ ■ ■

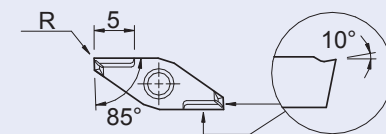
■ = Standard
□ = Sur demande / Auf Anfrage / On request

tourneur avant
vorwärts drehen
front turning

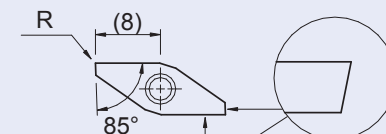
85°



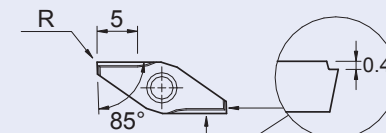
337



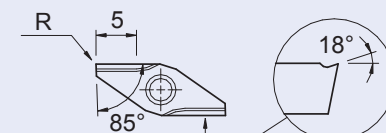
338



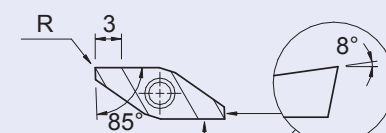
338VS



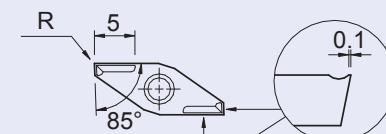
338VX



338X



339



R	Art. N°	TIN TIALN N (μK20)	HTIN HTIALN HN (μK10)
0	337	■ ■ ■	■ ■ ■
0.03	337-R03	■ ■ ■	■ ■ ■
0.08	337-R08	■ ■ ■	■ ■ ■
0.1	337-R10	■ ■ ■	■ ■ ■
0.2	337-R20	■ ■ ■	■ ■ ■

R	Art. N°	TIN TIALN N (μK20)
0	338	■ ■ ■ ■
0.1	338-R10	■ ■ ■ ■
0.2	338-R20	■ ■ ■ ■
0.4	338-R40	■ ■ ■ ■

0	338VS	■ ■ ■ ■
0.1	338VS-R10	■ ■ ■ ■

0	338VX	■ ■ ■ ■
0.05	338VX-R05	■ ■ ■ ■

0	338X	■ ■ ■ ■
0.1	338X-R10	■ ■ ■ ■

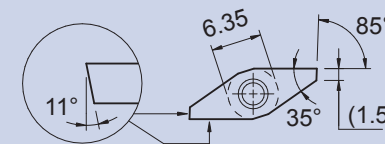
0	339	■ ■ ■ ■
0.1	339-R10	■ ■ ■ ■
0.2	339-R20	■ ■ ■ ■

■ = Standard
□ = Sur demande / Auf Anfrage / On request

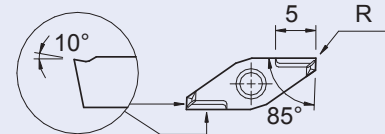
■* = Correspond aux nuances :
Entspricht den Sorten :
Equivalent to grade :
HTIN
HTIALN
HN (μK10)

tourneur avant
vorwärts drehen
front turning

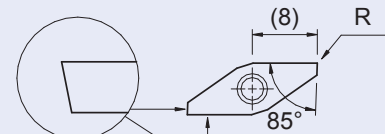
85°



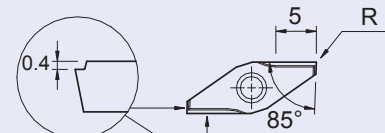
347



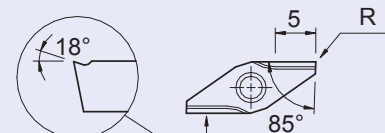
348



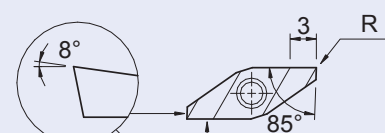
348VS



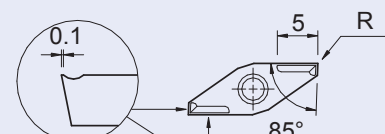
348VX



348X



349



R	Art. N°	TIN TIALN N (μK20)	HTIN HTIALN HN (μK10)
0	347	■ ■ ■	■ ■ ■
0.03	347-R03	■ ■ ■	■ ■ ■
0.08	347-R08	■ ■ ■	■ ■ ■
0.1	347-R10	■ ■ ■	■ ■ ■
0.2	347-R20	■ ■ ■	■ ■ ■

R	Art. N°	TIN TIALN N (μK20)
0	348	■ ■ ■ ■
0.1	348-R10	■ ■ ■ ■
0.2	348-R20	■ ■ ■ ■
0.4	348-R40	■ ■ ■ ■

0	348VS	■ ■ ■ ■
0.1	348VS-R10	■ ■ ■ ■

0	348VX	■ ■ ■ ■
0.05	348VX-R05	■ ■ ■ ■

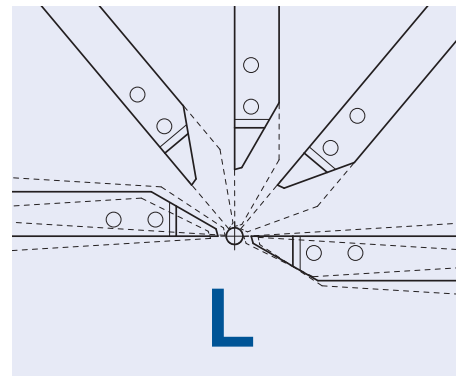
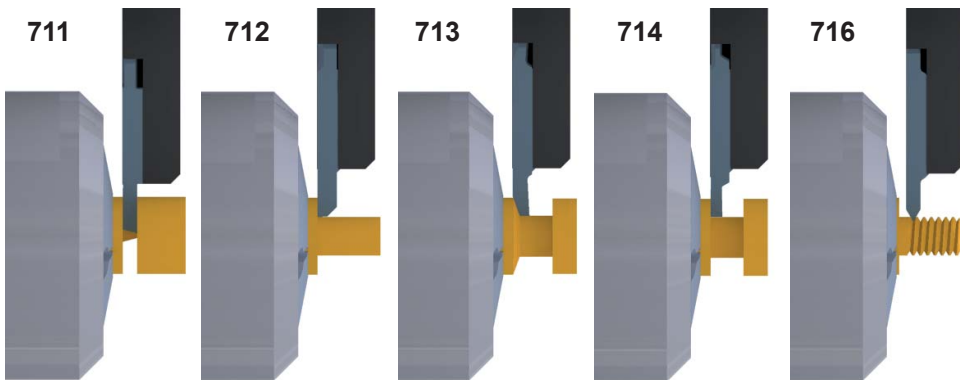
0	348X	■ ■ ■ ■
0.1	348X-R10	■ ■ ■ ■

0	349	■ ■ ■ ■
0.1	349-R10	■ ■ ■ ■
0.2	349-R20	■ ■ ■ ■

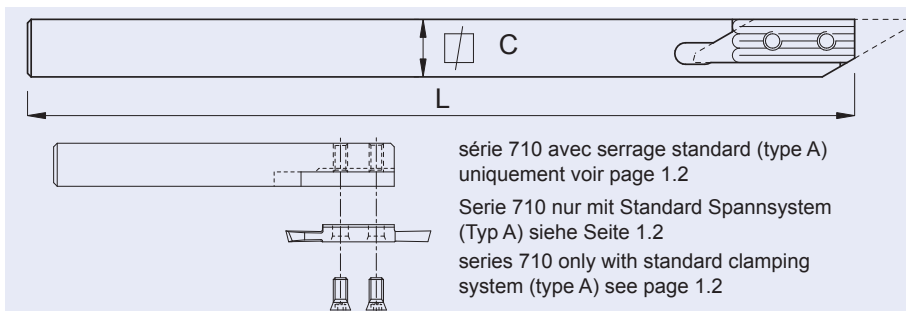
■ = Standard
□ = Sur demande / Auf Anfrage / On request

■* = Correspond aux nuances :
Entspricht den Sorten :
Equivalent to grade :
HTIN
HTIALN
HN (μK10)

Série spéciale pour machines à cames à gauche
Sonder-Serie für linksdrehende kurvengesteuerte Maschinen
Special series for left hand turning cam driven machines



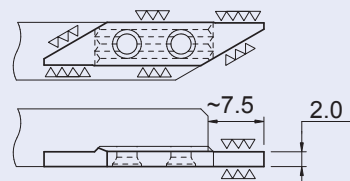
porte-outils
Halter
holders



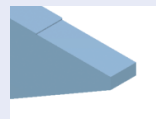
C	L	Art. N°
6 X 6	115	710-6
7 X 7	115	710-7
8 X 8	115	710-8
10 X 10	115	710-10
12 X 12	130	710-12



plaquette ébauche
VHM-Rohling
blank insert



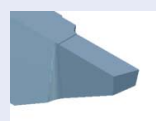
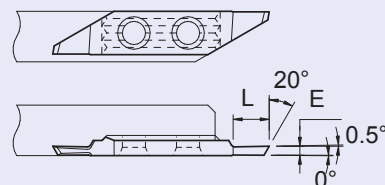
face de coupe polie
Schneidfläche poliert
cutting face polished



Art. N°	N (μK20)	HN (μK10)
711-EP	■	■



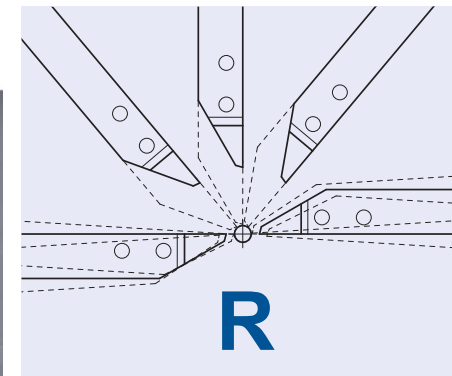
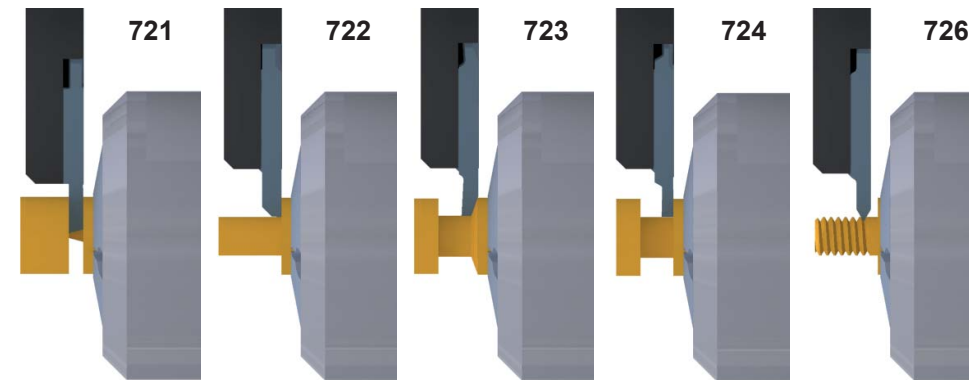
tronçonnage
abstechen
parting off



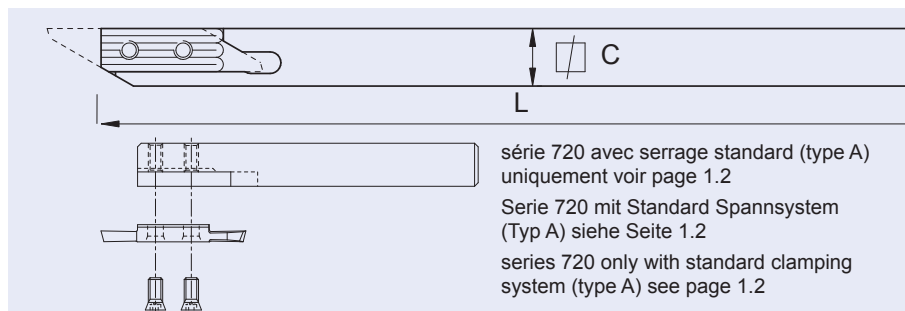
E	L	Art. N°	TIN TIALN N (μK20)	HTIN HTIALN HN (μK10)
0.5	2	711-0.5	■ ■ ■	
0.8	3	711-0.8	■ ■ ■	□ ■ ■
0.9	3	711-0.9	■ ■ ■	
1.0	4	711-1.0	■ ■ ■	■ ■ ■
1.1	4	711-1.1	■ ■ ■	
1.2	5	711-1.2	■ ■ ■	■ ■ ■
1.3	5	711-1.3	■ ■ ■	
1.4	5	711-1.4	■ ■ ■	
1.5	6.5	711-1.5	■ ■ ■	■ ■ ■
1.8	6.5	711-1.8	■ ■ ■	
2.0	6.5	711-2.0	■ ■ ■	

■ = Standard
□ = Sur demande / Auf Anfrage / On request

Série spéciale pour machines à cames à droite
Sonder-Serie für rechtsdrehende kurvengesteuerte Maschinen
Special series for right hand turning cam driven machines



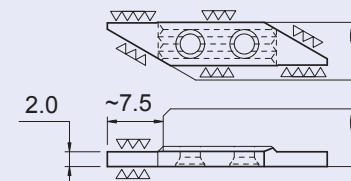
porte-outils
Halter
holders



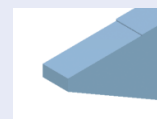
C	L	Art. N°
7 X 7	115	720-7
8 X 8	115	720-8
10 X 10	115	720-10
12 X 12	130	720-12



plaquette ébauche
VHM-Rohling
blank insert



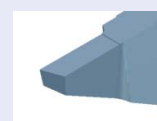
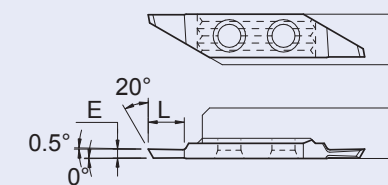
face de coupe polie
Schneidfläche poliert
cutting face polished



Art. N°	N (μK20)	HN (μK10)
721-EP	■	■



tronçonnage
abstechen
parting off

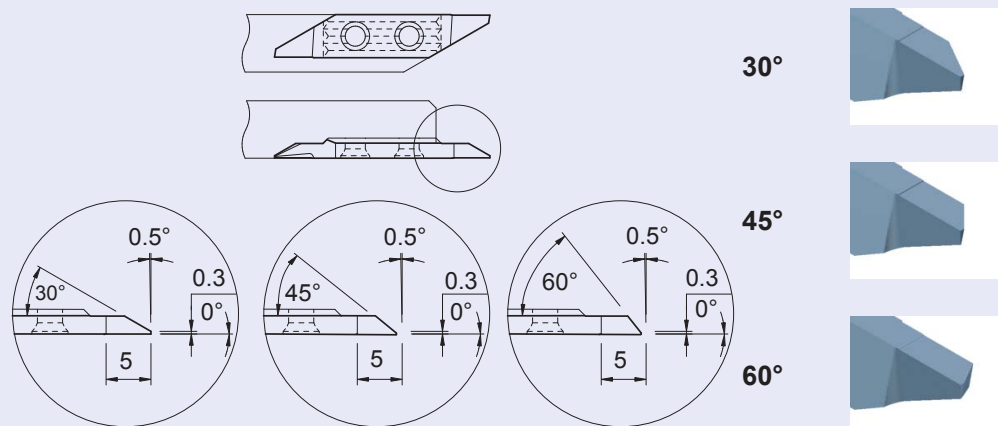


E	L	Art. N°	TIN TIALN N (μK20)	HTIN HTIALN HN (μK10)
0.8	3	721-0.8	■ ■ ■	
1.0	4	721-1.0	■ ■ ■	□ □ ■
1.2	5	721-1.2	■ ■ ■	
1.5	6.5	721-1.5	■ ■ ■	□ □ □
1.8	6.5	721-1.8	■ ■ ■	
2.0	6.5	721-2.0	■ ■ ■	

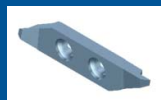
■ = Standard
□ = Sur demande / Auf Anfrage / On request



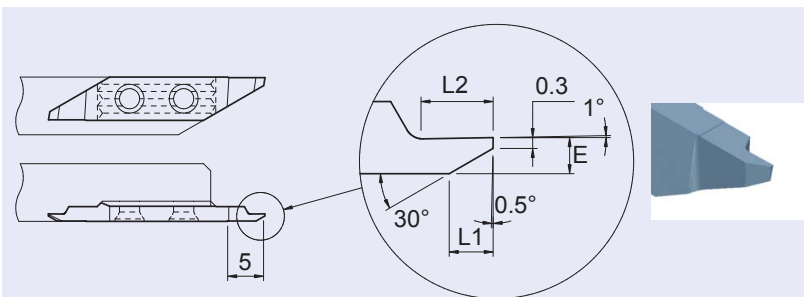
tourneur avant
vorwärts drehen
front turning



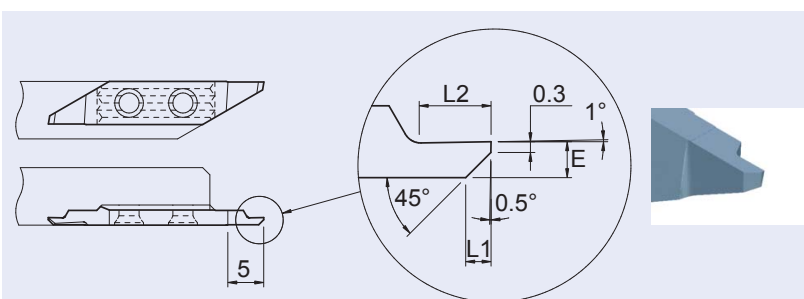
Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
712-30	■	■	■	□	■	■
712-45	■	■	■	■	■	■
712-60	■	■	■	□	■	■



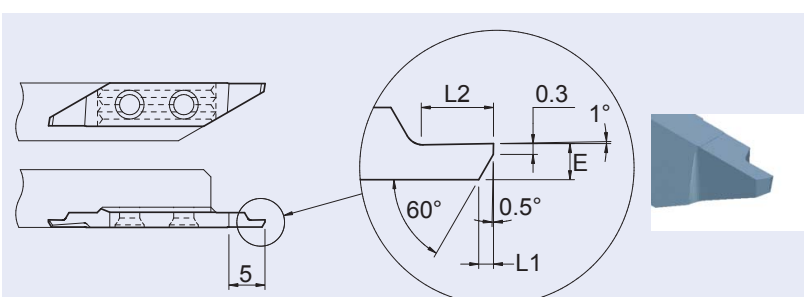
tourneur arrière
rückwärts drehen
back turning



E	~L1	L2	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
0.8	0.85	1.6	713-30-0.8	■	■	■			
0.9	1.05	1.6	713-30-0.9	■	■	■			
1.0	1.2	2.0	713-30-1.0	■	■	■			
1.1	1.4	2.0	713-30-1.1	■	■	■			
1.2	1.55	2.5	713-30-1.2	■	■	■			
1.3	1.7	2.5	713-30-1.3	■	■	■			
1.4	1.9	3.0	713-30-1.4	■	■	■			
1.5	2.1	3.0	713-30-1.5	■	■	■	■	■	■
1.8	2.6	4.0	713-30-1.8	■	■	■			
2.0	3.0	4.0	713-30-2.0	■	■	■	■	■	■



E	~L1	L2	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
0.8	0.5	1.6	713-45-0.8	■	■	■			
0.9	0.6	1.6	713-45-0.9	■	■	■			
1.0	0.7	2.0	713-45-1.0	■	■	■	□	■	■
1.1	0.8	2.0	713-45-1.1	■	■	■			
1.2	0.9	2.5	713-45-1.2	■	■	■			
1.3	1.0	2.5	713-45-1.3	■	■	■			
1.4	1.1	3.0	713-45-1.4	■	■	■			
1.5	1.2	3.0	713-45-1.5	■	■	■	■	■	■
1.8	1.5	4.0	713-45-1.8	■	■	■			
2.0	1.7	4.0	713-45-2.0	■	■	■			

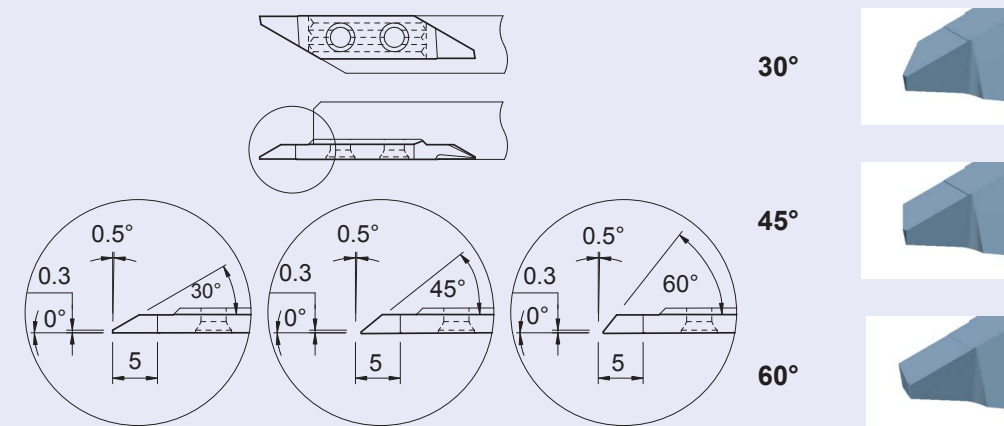


E	~L1	L2	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
0.8	0.3	1.6	713-60-0.8	■	■	■			
0.9	0.35	1.6	713-60-0.9	■	■	■			
1.0	0.4	2.0	713-60-1.0	■	■	■			
1.1	0.45	2.0	713-60-1.1	■	■	■			
1.2	0.5	2.5	713-60-1.2	■	■	■			
1.3	0.6	2.5	713-60-1.3	■	■	■			
1.4	0.65	3.0	713-60-1.4	■	■	■			
1.5	0.7	3.0	713-60-1.5	■	■	■			
1.8	0.85	4.0	713-60-1.8	■	■	■			
2.0	1.0	4.0	713-60-2.0	■	■	■			

■ = Standard
□ = Sur demande / Auf Anfrage / On request

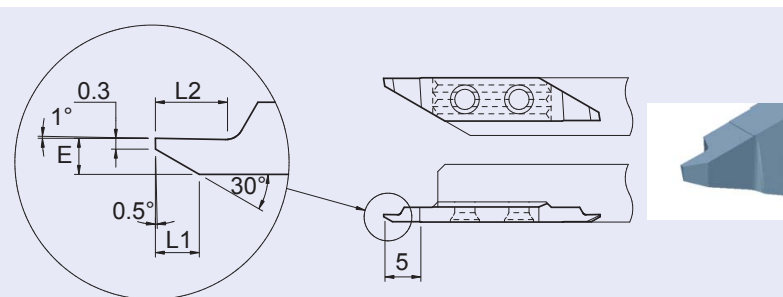


tourneur avant
vorwärts drehen
front turning

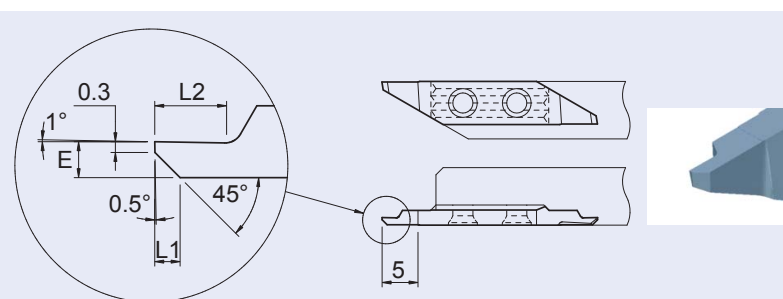


Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
722-30	■	■	■			
722-45	■	■	■			
722-60	■	■	■			

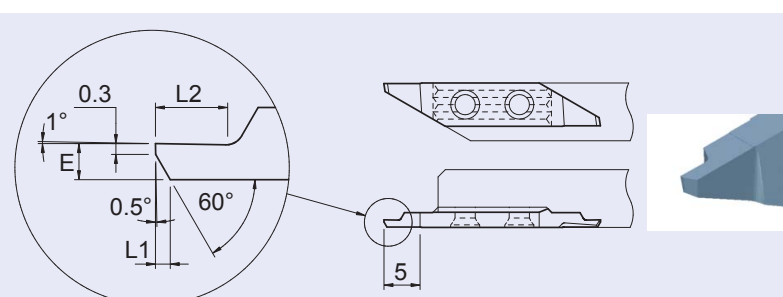
tourneur arrière
rückwärts drehen
back turning



E	~L1	L2	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
0.8	0.85	1.6	723-30-0.8	■	■	■			
1.0	1.2	2.0	723-30-1.0	■	■	■			
1.2	1.55	2.5	723-30-1.2	■	■	■			
1.5	2.1	3.0	723-30-1.5	■	■	■			
1.8	2.6	4.0	723-30-1.8	■	■	■			
2.0	3.0	4.0	723-30-2.0	■	■	■			



E	~L1	L2	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
0.8	0.5	1.6	723-45-0.8	■	■	■			
1.0	0.7	2.0	723-45-1.0	■	■	■			
1.2	0.9	2.5	723-45-1.2	■	■	■			
1.5	1.2	3.0	723-45-1.5	■	■	■			
1.8	1.5	4.0	723-45-1.8	■	■	■			
2.0	1.7	4.0	723-45-2.0	■	■	■			

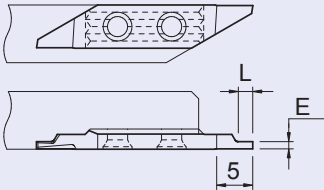


E	~L1	L2	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
0.8	0.3	1.6	723-60-0.8	■	■	■			
1.0	0.4	2.0	723-60-1.0	■	■	■			
1.2	0.5	2.5	723-60-1.2	■	■	■			
1.5	0.7	3.0	723-60-1.5	■	■	■			
1.8	0.85	4.0	723-60-1.8	■	■	■			
2.0	1.0	4.0	723-60-2.0	■	■	■			

■ = Standard
□ = Sur demande / Auf Anfrage / On request



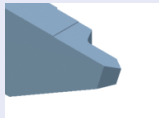
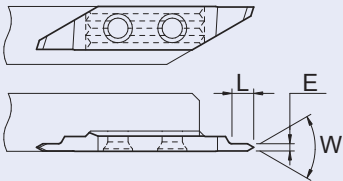
foncer tourner
einstechen und drehen
grooving and turning



E	L	Art. N°	TIN TIALN N (µK20)	HTIN HTIALN HN (µK10)
0.5	1.0	714-0.5	■ ■ ■	
0.6	1.0	714-0.6	■ ■ ■	
0.7	1.5	714-0.7	■ ■ ■	
0.8	1.5	714-0.8	■ ■ ■	
0.9	2.0	714-0.9	■ ■ ■	
1.0	2.0	714-1.0	■ ■ ■	□ ■ ■
1.1	2.0	714-1.1	■ ■ ■	
1.2	2.5	714-1.2	■ ■ ■	
1.3	2.5	714-1.3	■ ■ ■	
1.4	3.0	714-1.4	■ ■ ■	
1.5	3.0	714-1.5	■ ■ ■	■ ■ ■

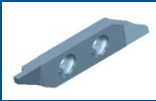


fileter
Gewinde drehen
threading

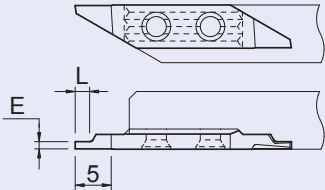


W	E	L	Art. N°	TIN TIALN N (µK20)	HTIN HTIALN HN (µK10)
60°	1.0	3	716-60-1.0	■ ■ ■	
60°	1.5	4	716-60-1.5	■ ■ ■	
55°	1.0	3	716-55-1.0	■ ■ ■	
55°	1.5	4	716-55-1.5	■ ■ ■	

■ = Standard
□ = Sur demande / Auf Anfrage / On request



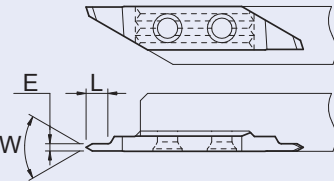
foncer tourner
einstechen und drehen
grooving and turning



E	L	Art. N°	TIN TIALN N (µK20)	HTIN HTIALN HN (µK10)
0.5	1.0	724-0.5	■ ■ ■	
0.6	1.0	724-0.6	■ ■ ■	
0.7	1.5	724-0.7	■ ■ ■	
0.8	1.5	724-0.8	■ ■ ■	
0.9	2.0	724-0.9	■ ■ ■	
1.0	2.0	724-1.0	■ ■ ■	
1.1	2.0	724-1.1	■ ■ ■	
1.2	2.5	724-1.2	■ ■ ■	
1.3	2.5	724-1.3	■ ■ ■	
1.4	3.0	724-1.4	■ ■ ■	
1.5	3.0	724-1.5	■ ■ ■	

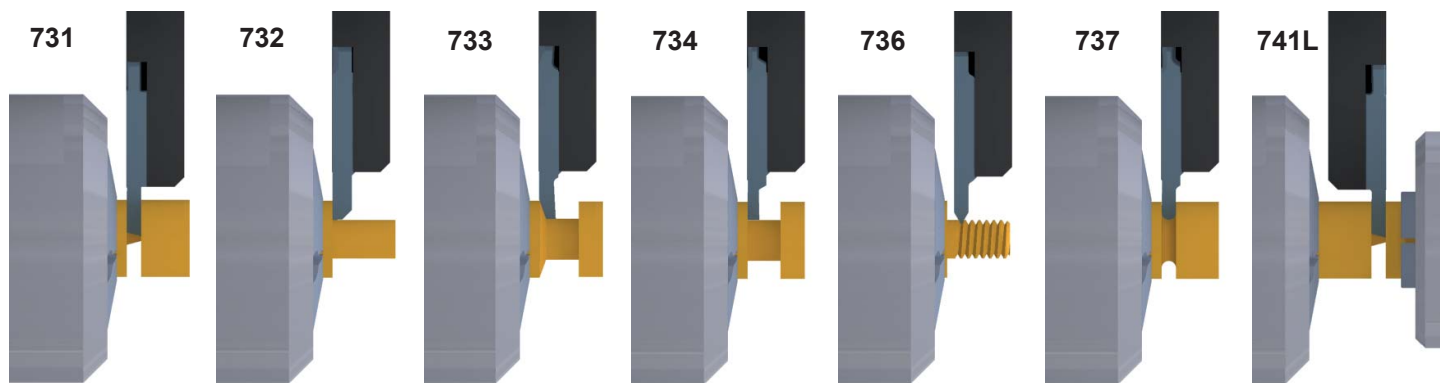


fileter
Gewinde drehen
threading



W	E	L	Art. N°	TIN TIALN N (µK20)	HTIN HTIALN HN (µK10)
60°	1.0	3	726-60-1.0	■ ■ ■	
60°	1.5	4	726-60-1.5	■ ■ ■	
55°	1.0	3	726-55-1.0	■ ■ ■	
55°	1.5	4	726-55-1.5	■ ■ ■	

■ = Standard
□ = Sur demande / Auf Anfrage / On request



voir page :
siehe Seite :
see page :

1.24
1.26

1.30

1.30
1.32

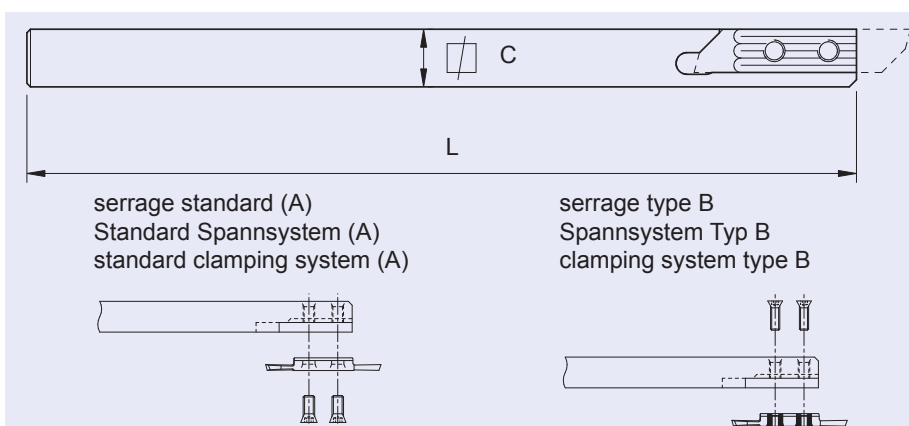
1.32

1.34

1.34

1.28

porte-outils
Halter
holders



Chaque porte-outil est livré avec 2 paires de vis pour les 2 types de serrage
Halter werden mit 2 Paar Schrauben für beide Spannsysteme geliefert
2 pairs of screws for both clamping systems are included with each tool holder

C	L	Art. N°
7 X 7	115	730-7 *
8 X 8	115	730-8
10 X 10	115	730-10
10 X 10	50	730-10-50
12 X 12	130	730-12
12 X 12	90	730-12-90
13 X 13	130	730-13
16 X 16	130	730-16
16 X 16	75	730-16-75
20 X 20	120	730-20

*730-7 : serrage A uniquement
*730-7 : nur mit A-Spannsystem
*730-7 : clamping A only

L

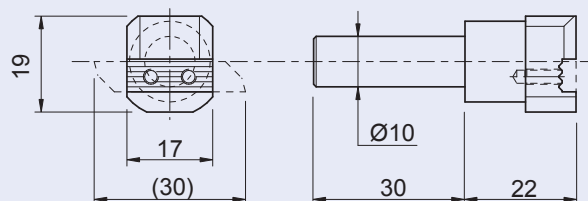
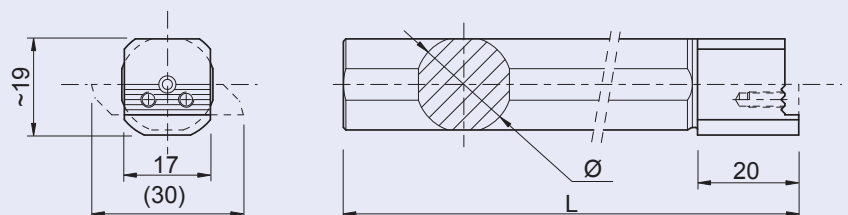
coupe à gauche
Linksschneiden
left hand cut

utiliser des plaquettes série 730
Wendeplatten Serie 730 verwenden
use inserts series 730

R

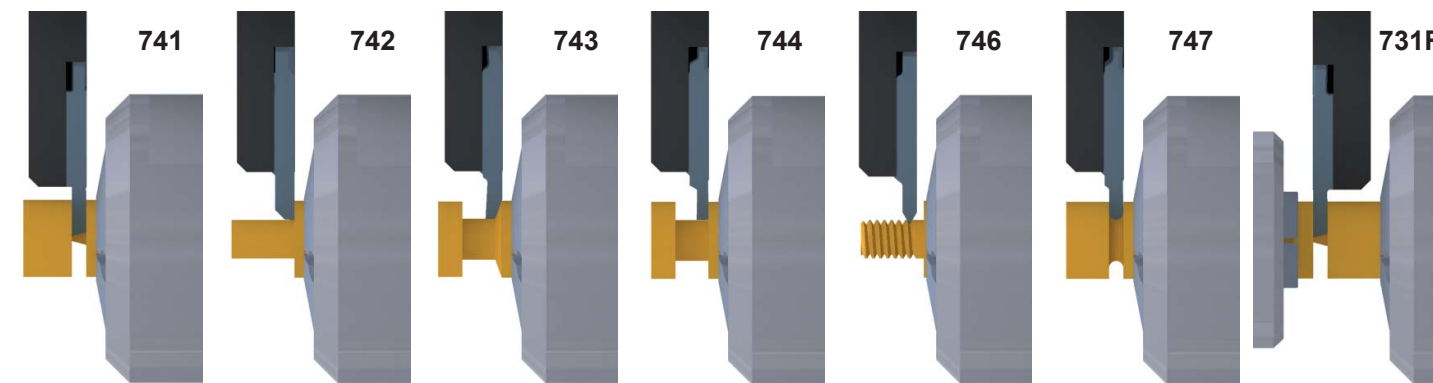
coupe à droite
Rechtsschneiden
right hand cut

utiliser des plaquettes série 740
Wendeplatten Serie 740 verwenden
use inserts series 740



740/730-D10

C	L	Art. N°
19.05	160	740/730-D19.05
19.05	110	740/730-D19.05-S
20	160	740/730-D20
25	200	740/730-D25
25.4	200	740/730-D25.4



voir page :
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1.25
1.27

1.31

1.31
1.33

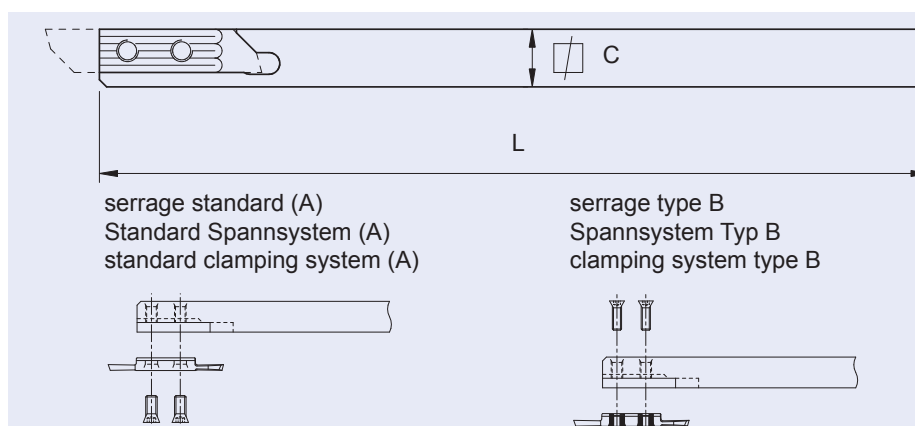
1.33

1.35

1.35

1.29

porte-outils
Halter
holders



Chaque porte-outil est livré avec 2 paires de vis pour les 2 types de serrage
Halter werden mit 2 Paar Schrauben für beide Spannsysteme geliefert
2 pairs of screws for both clamping systems are included with each tool holder

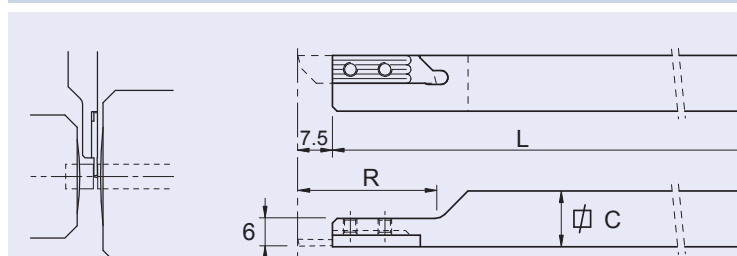
C	L	Art. N°
7 X 7	115	740-7 *
8 X 8	115	740-8
10 X 10	115	740-10
10 X 10	50	740-10-50
12 X 12	130	740-12
12 X 12	90	740-12-90
13 X 13	130	740-13
16 X 16	130	740-16
16 X 16	75	740-16-75
20 X 20	120	740-20

*740-7 : serrage A uniquement
*740-7 : nur mit A-Spannsystem
*740-7 : clamping A only

Pour le tronçonnage
de petites pièces

Zum Abstechen von
kleinen Werkstücken

For small parts
parting off

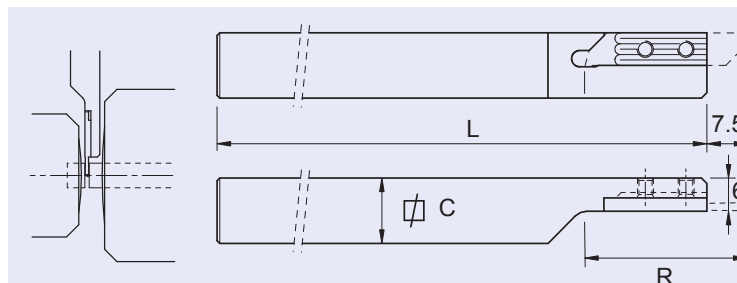


C	L	R	Art. N°
10 X 10	115	24	740-C-10
12 X 12	130	30	740-C-12
16 X 16	130	40	740-C-16

utiliser des plaquettes type 741
Wendeplatten Typ 741 verwenden
use inserts type 741

voir page :
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1.25
-
1.27



C	L	R	Art. N°
10 X 10	115	24	730RC-10
12 X 12	130	30	730RC-12
16 X 16	130	40	730RC-16

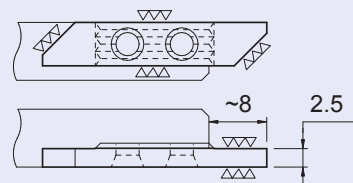
utiliser des plaquettes type 731 R
Wendeplatten Typ 731 R verwenden
use inserts type 731 R

voir page :
siehe Seite :
see page :

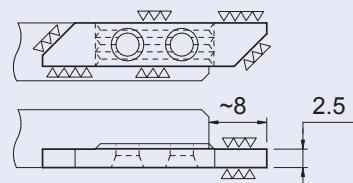
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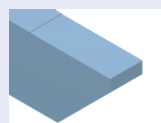
plaquette ébauche
VHM-Rohling
blank insert



Art. N°	N (μK20)	HN (μK10)
731-E	■	■



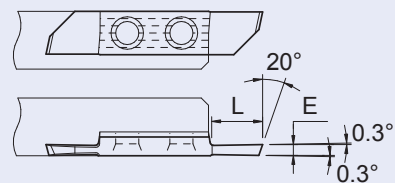
face de coupe polie
Schneidfläche poliert
cutting face polished



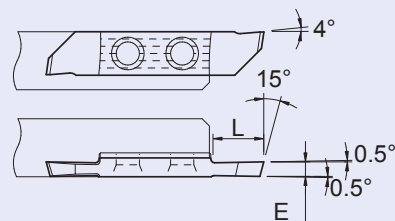
Art. N°	N (μK20)	HN (μK10)
731-EP	■	■



tronçonnage
abstechen
parting off



E	L	Art. N°	TiN TiAlN N (μK20)	HTiN HTiAlN HN (μK10)
0.8	5	731-0.8	■ ■ ■	
1.0	5	731-1.0	■ ■ ■	
1.2	5	731-1.2	■ ■ ■	
1.5	7	731-1.5	■ ■ ■	■ ■ ■
1.8	7	731-1.8	■ ■ ■	
2.0	7	731-2.0	■ ■ ■	
2.5	7	731-2.5	■ ■ ■	



1.0	5	731x4-1.0	■ ■ ■	
1.5	7	731x4-1.5	■ ■ ■	
2.0	7	731x4-2.0	■ ■ ■	

7XX-XX-B

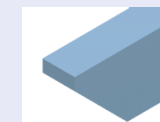
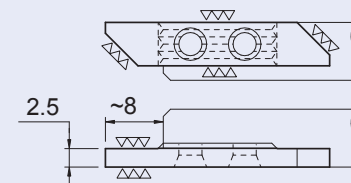


Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

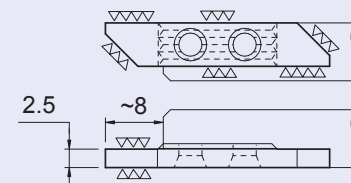
■ = Standard
□ = Sur demande / Auf Anfrage / On request



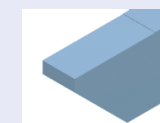
plaquette ébauche
VHM-Rohling
blank insert



Art. N°	N (μK20)	HN (μK10)
741-E	■	■

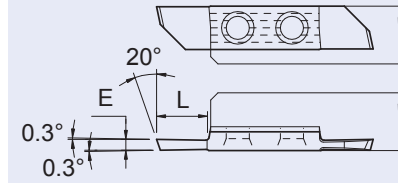


face de coupe polie
Schneidfläche poliert
cutting face polished

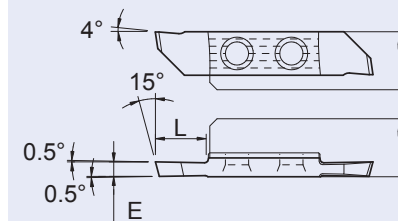


Art. N°	N (μK20)	HN (μK10)
741-EP	■	■

tronçonnage
abstechen
parting off



E	L	Art. N°	TiN TiAlN N (μK20)	HTiN HTiAlN HN (μK10)
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	■ ■ ■	



1.0	5	741x4-1.0	■ ■ ■	
1.5	7	741x4-1.5	■ ■ ■	
2.0	7	741x4-2.0	■ ■ ■	

7XX-XX-B

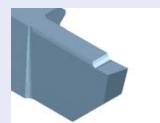
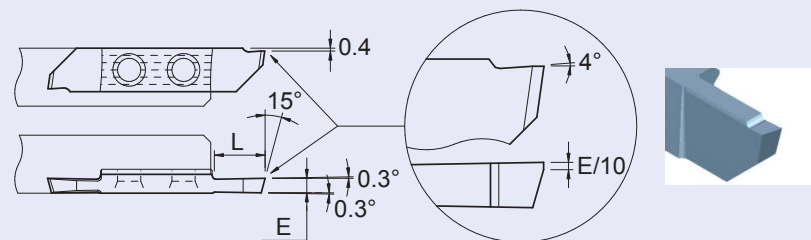


Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

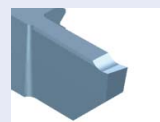
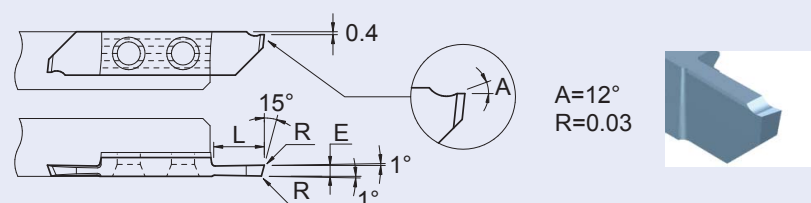
■ = Standard
□ = Sur demande / Auf Anfrage / On request



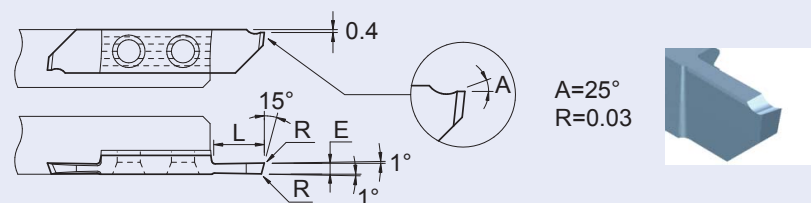
tronçonnage
abstechen
parting off



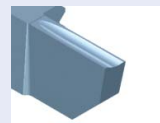
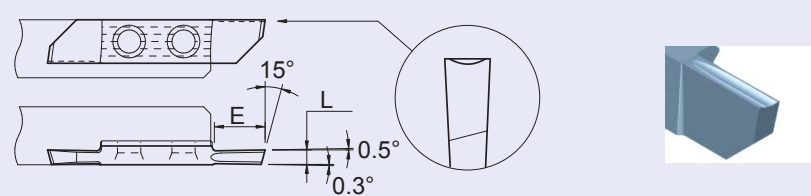
E	L	Art. N°	TIN TIALN N (µK20)	HTIN HTIALN HN (µK10)
1.5	7	731xf-1.5	■ ■ ■	■ ■ ■
2.0	7	731xf-2.0	■ ■ ■	
2.5	7	731xf-2.5	■ ■ ■	



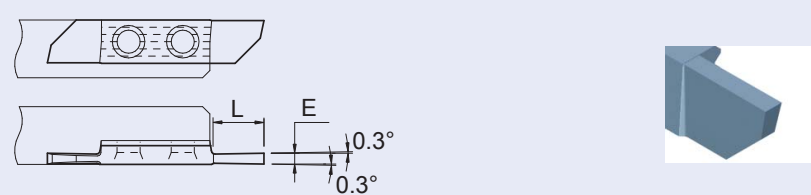
E	L	Art. N°	TIN TIALN N (µK20)	HTIN HTIALN HN (µK10)
1.0	5	731x12-1.0	■ ■ ■	
1.5	7	731x12-1.5	■ ■ ■	
2.0	7	731x12-2.0	■ ■ ■	



E	L	Art. N°	TIN TIALN N (µK20)	HTIN HTIALN HN (µK10)
1.0	5	731x25-1.0	■ ■ ■	
1.5	7	731x25-1.5	■ ■ ■	
2.0	7	731x25-2.0	■ ■ ■	



E	L	Art. N°	TIN TIALN N (µK20)	HTIN HTIALN HN (µK10)
1.5	7	731u-1.5	■ ■ ■	
2.0	7	731u-2.0	■ ■ ■	



E	L	Art. N°	TIN TIALN N (µK20)	HTIN HTIALN HN (µK10)
1.0	5	731n-1.0	■ ■ ■	
1.5	7	731n-1.5	■ ■ ■	

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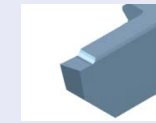
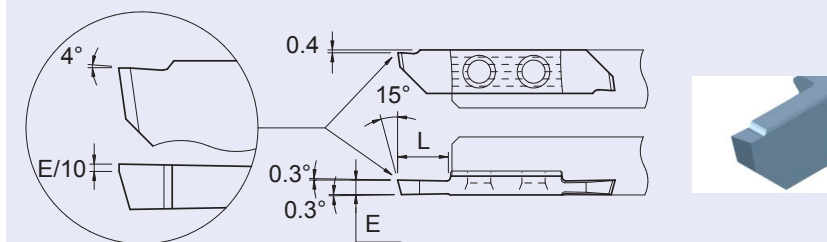


Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

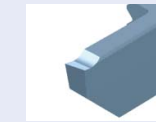
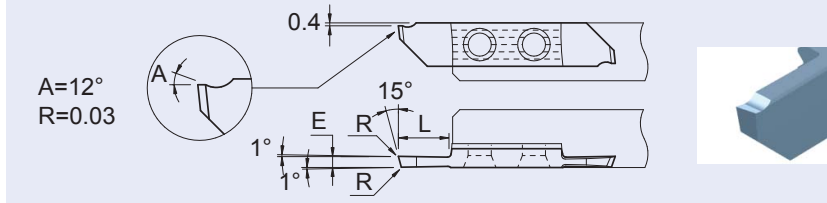
■ = Standard
□ = Sur demande / Auf Anfrage / On request



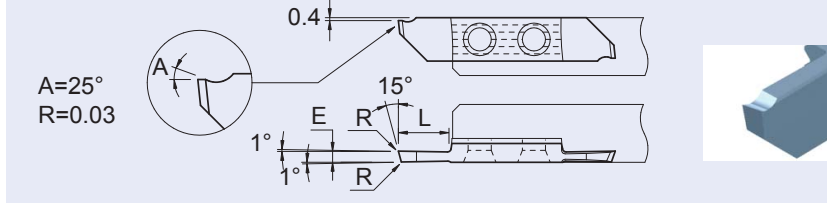
tronçonnage
abstechen
parting off



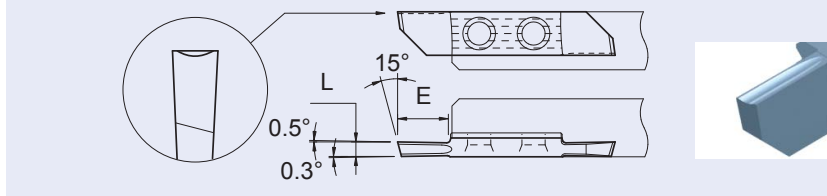
E	L	Art. N°	TIN TIALN N (µK20)	HTIN HTIALN HN (µK10)
1.5	7	741xf-1.5	■ ■ ■	■ ■ ■
2.0	7	741xf-2.0	■ ■ ■	■ ■ ■
2.5	7	741xf-2.5	■ ■ ■	



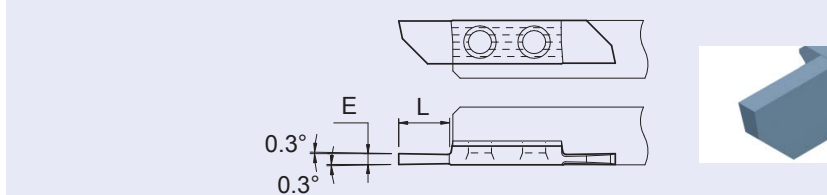
E	L	Art. N°	TIN TIALN N (µK20)	HTIN HTIALN HN (µK10)
1.0	5	741x12-1.0	■ ■ ■	
1.5	7	741x12-1.5	■ ■ ■	■ ■ ■
2.0	7	741x12-2.0	■ ■ ■	



E	L	Art. N°	TIN TIALN N (µK20)	HTIN HTIALN HN (µK10)
1.0	5	741x25-1.0	■ ■ ■	
1.5	7	741x25-1.5	■ ■ ■	
2.0	7	741x25-2.0	■ ■ ■	



E	L	Art. N°	TIN TIALN N (µK20)	HTIN HTIALN HN (µK10)
1.5	7	741u-1.5	■ ■ ■	
2.0	7	741u-2.0	■ ■ ■	



E	L	Art. N°	TIN TIALN N (µK20)	HTIN HTIALN HN (µK10)
1.0	5	741n-1.0	■ ■ ■	
1.5	7	741n-1.5	■ ■ ■	

7XX-XX-B

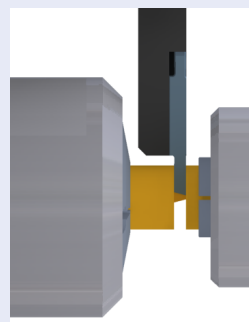


Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

■ = Standard
□ = Sur demande / Auf Anfrage / On request

coupe à gauche déportée
versetztes Linksschneiden
left cut off line

broche principale
Hauptspindel
Mainspindle

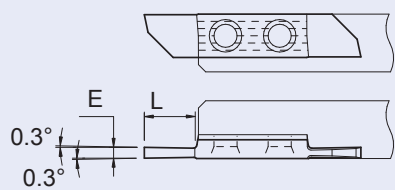
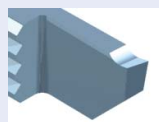
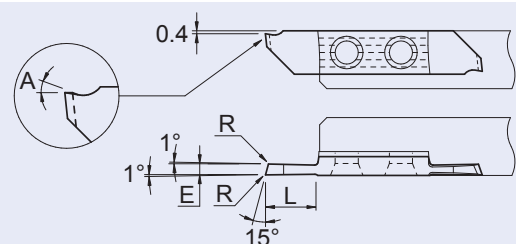
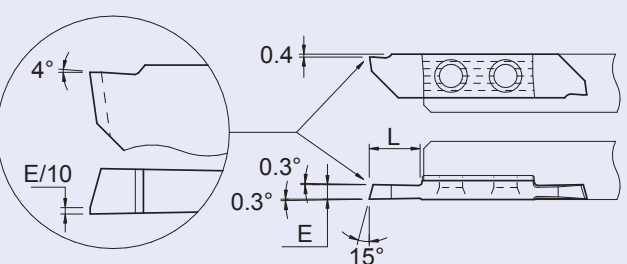
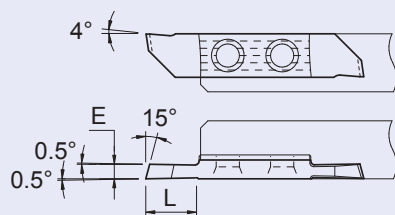
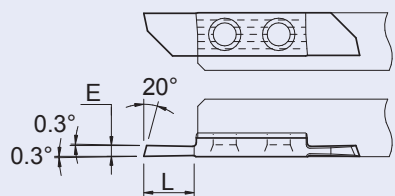


contre-broche
Gegenspindel
subspindle

Utiliser des porte-outils série 740 voir page 1.23
Halter Serie 740 verwenden, siehe Seite 1.23
Use 740 series holders see page 1.23



tronçonnage
abstechen
parting off



■ = Standard
□ = Sur demande / Auf Anfrage / On request

E	L	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
1.0	5	741L-1.0	■	■	■			
1.2	5	741L-1.2	■	■	■			
1.5	7	741L-1.5	■	■	■	■	■	■
2.0	7	741L-2.0	■	■	■			
2.5	7	741L-2.5	■	■	■			

1.5	7	741Lx4-1.5	■	■	■			
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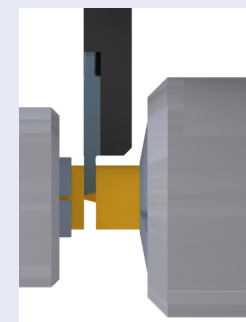
1.5	7	741Lxf-1.5	■	■	■			
2.0	7	741Lxf-2.0	■	■	■			
2.5	7	741Lxf-2.5	■	■	■			

A	R	E	L	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
12°	0.03	1.5	7	741Lx12-1.5	■	■	■			
25°	0.03	1.5	7	741Lx25-1.5	■	■	■			

1.0	5	741n-1.0	■	■	■			
1.5	7	741n-1.5	■	■	■			

coupe à droite déportée
versetztes Rechtsschneiden
right cut off line

contre-broche
Gegenspindel
subspindle

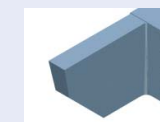
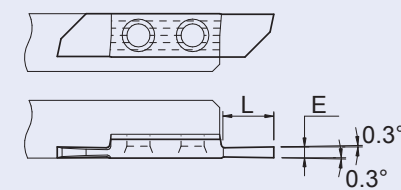
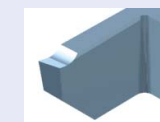
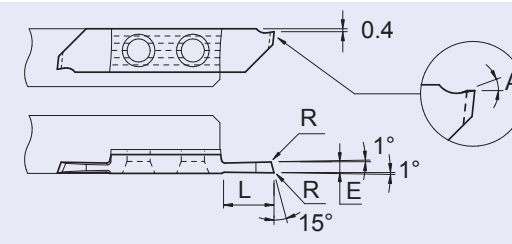
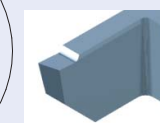
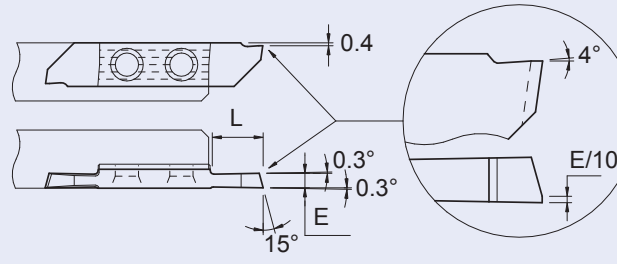
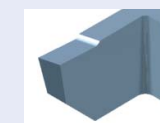
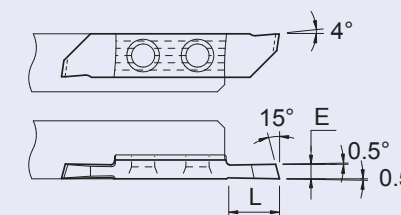
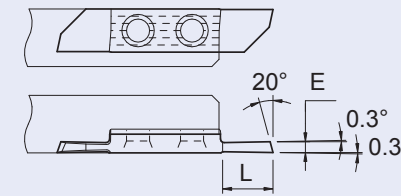


broche principale
Hauptspindel
Mainspindle

Utiliser des porte-outils série 730 voir page 1.22
Halter Serie 730 verwenden, siehe Seite 1.22
Use 730 series holders, see page 1.22



tronçonnage
abstechen
parting off



■ = Standard
□ = Sur demande / Auf Anfrage / On request

E	L	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
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	■	■	■			

1.5	7	731Rx4-1.5	■	■	■			
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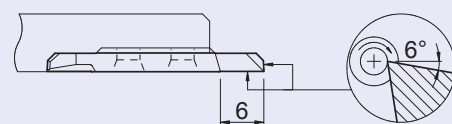
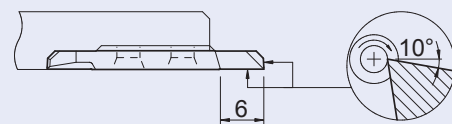
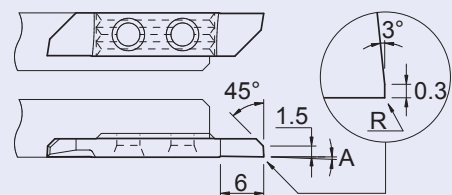
1.5	7	731Rxf-1.5	■	■	■			
2.0	7	731Rxf-2.0	■	■	■			
2.5	7	731Rxf-2.5	■	■	■			

A	R	E	L	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
12°	0.03	1.5	7	731Rx12-1.5	■	■	■			
25°	0.03	1.5	7	731Rx25-1.5	■	■	■			

1.0	5	731n-1.0	■	■	■			
1.5	7	731n-1.5	■	■	■			



tourneur avant
vorwärts drehen
front turning



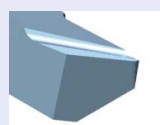
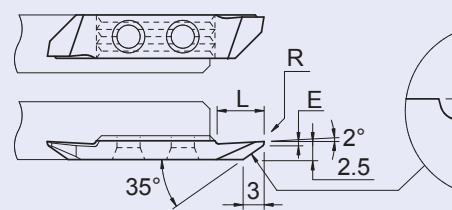
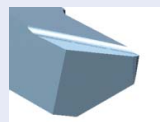
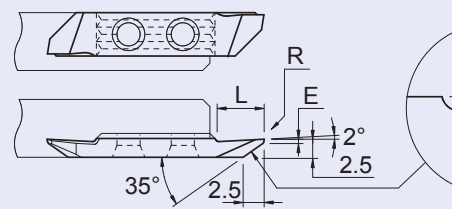
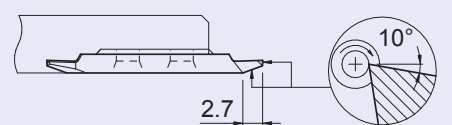
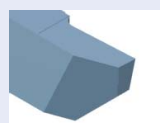
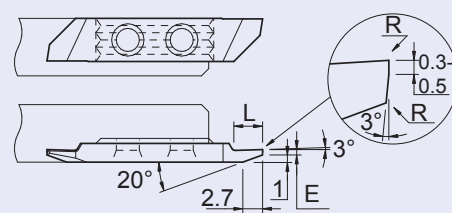
A	R	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
0°	0	732	■	■	■	■	■	■
2°	0	732-2°	■	■	■			

0°	0	732x	■	■	■	□	■	■
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0°	0	732Px	■	■	■			
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tourneur arrière
rückwärts drehen
back turning



E	L	R	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
0.5	3	0	733-0.5	■	■	■	□	□	■
0.5	3	0.08	733-0.5-R08	■	■	■			
0.8	4	0	733-0.8	■	■	■			
1.0	4	0	733-1.0	■	■	■			
1.2	5	0	733-1.2	■	■	■			
1.5	6	0	733-1.5	■	■	■			

0.5	3	0	733x-0.5	■	■	■			
0.5	3	0.08	733x-0.5-R08	■	■	■			
0.8	4	0	733x-0.8	■	■	■			
1.0	4	0	733x-1.0	■	■	■			
1.2	5	0	733x-1.2	■	■	■			
1.5	6	0	733x-1.5	■	■	■			

~1.0	6.5	0	733vx-8°	■	■	■	■	■	■
~1.0	6.5	0.08	733vx-8°-R08	■	■	■			

0.5	6.5	0	733vx-15°	■	■	■	□	■	■
0.5	6.5	0.08	733vx-15°-R08	■	■	■			

7XX-XX-B



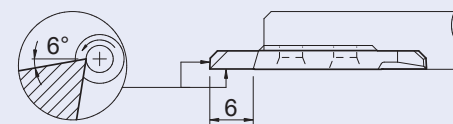
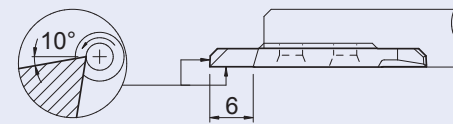
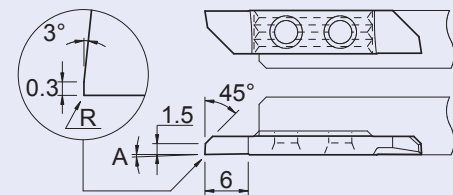
Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

■ = Standard

□ = Sur demande / Auf Anfrage / On request



tourneur avant
vorwärts drehen
front turning

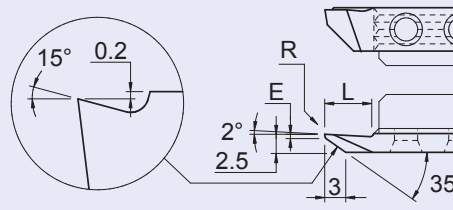
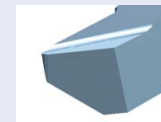
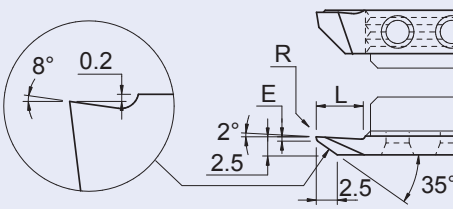
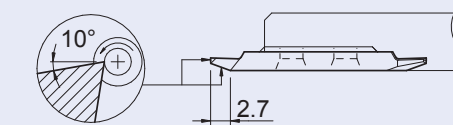
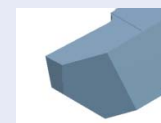
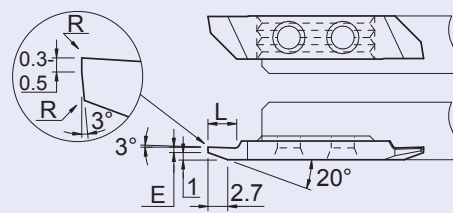


A	R	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
0°	0	742	■	■	■	■	■	■
2°	0	742-2°	■	■	■			

0°	0	742x	■	■	■	■	■	■
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0°	0	742Px	■	■	■			
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tourneur arrière
rückwärts drehen
back turning



E	L	R	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
0.5	3	0	743-0.5	■	■	■	■	■	■
0.5	3	0.08	743-0.5-R08	■	■	■			
0.8	4	0	743-0.8	■	■	■	□	■	■
1.0	4	0	743-1.0	■	■	■			
1.2	5	0	743-1.2	■	■	■			
1.5	6	0	743-1.5	■	■	■			

0.5	3	0	743x-0.5	■	■	■	□	■	■
0.5	3	0.08	743x-0.5-R08	■	■	■			
0.8	4	0	743x-0.8	■	■	■	□	■	■
1.0	4	0	743x-1.0	■	■	■			
1.2	5	0	743x-1.2	■	■	■			
1.5	6	0	743x-1.5	■	■	■			

~1.0	6.5	0	743vx-8°	■	■	■	□	■	■
~1.0	6.5	0.08	743vx-8°-R08	■	■	■			

0.5	6.5	0	743vx-15°	■	■	■	□	■	■
0.5	6.5	0.08	743vx-15°-R08	■	■	■			

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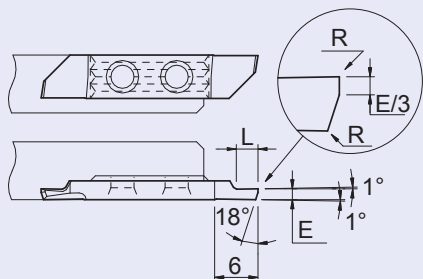
Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

■ = Standard

□ = Sur demande / Auf Anfrage / On request



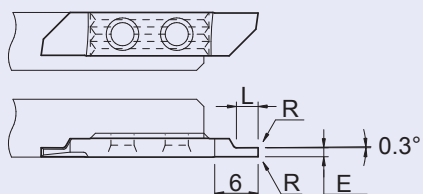
tourneur arrière / pré-coupe
rückwärts drehen / vorstechen
back turning / pre-parting off



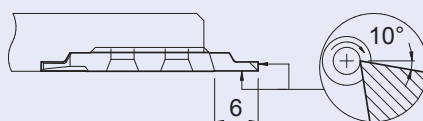
E	L	R	Art. N°	TIN TIALN N (μK20)	HTIN HTIALN HN (μK10)
0.8	2	0	733P-0.8	■ ■ ■	
1.0	2	0	733P-1.0	■ ■ ■	
1.2	2.5	0	733P-1.2	■ ■ ■	
1.5	3	0	733P-1.5	■ ■ ■	



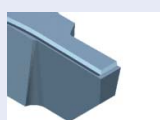
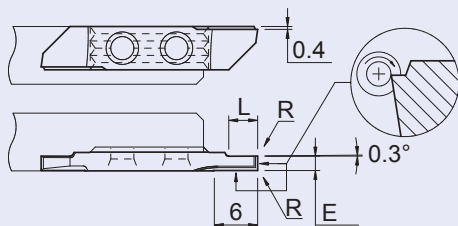
foncer tourner
einstechen und drehen
grooving and turning



E	L	R	Art. N°	TIN TIALN N (μK20)	HTIN HTIALN HN (μK10)
0.5	1.5	0	734-0.5	■ ■ ■	
0.6	1.8	0	734-0.6	■ ■ ■	
0.75	2	0	734-0.75	■ ■ ■	
0.8	2	0	734-0.8	■ ■ ■	
0.95	3	0	734-0.95	■ ■ ■	
1.0	2.5	0	734-1.0	■ ■ ■	■ ■ ■
1.0	2.5	0.08	734-1.0-R08	■ ■ ■	
1.2	3	0	734-1.2	■ ■ ■	
1.5	3	0	734-1.5	■ ■ ■	■ ■ ■
1.5	3	0.08	734-1.5-R08	■ ■ ■	
1.8	4	0	734-1.8	■ ■ ■	
2.0	4	0	734-2.0	■ ■ ■	
2.0	4	0.08	734-2.0-R08	■ ■ ■	
2.5	6	0	734-2.5	■ ■ ■	



0.8	2	0	734x-0.8	■ ■ ■	
1.0	2.5	0	734x-1.0	■ ■ ■	
1.0	2.5	0.08	734x-1.0-R08	■ ■ ■	
1.2	3	0	734x-1.2	■ ■ ■	
1.5	3	0	734x-1.5	■ ■ ■	■ ■ ■
1.5	3	0.08	734x-1.5-R08	■ ■ ■	
1.8	4	0	734x-1.8	■ ■ ■	
2.0	4	0	734x-2.0	■ ■ ■	
2.0	4	0.08	734x-2.0-R08	■ ■ ■	
2.5	6	0	734x-2.5	■ ■ ■	



1.0	2	0	734vs-1.0	■ ■ ■	
1.2	2.5	0	734vs-1.2	■ ■ ■	
1.5	3	0	734vs-1.5	■ ■ ■	
1.8	4	0	734vs-1.8	■ ■ ■	
2.0	4	0	734vs-2.0	■ ■ ■	
2.5	6	0	734vs-2.5	■ ■ ■	

7XX-XX-B



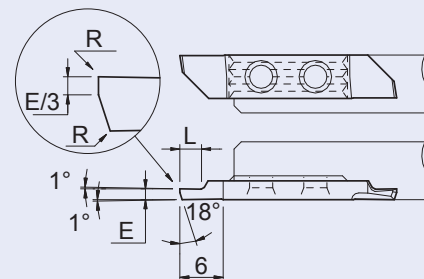
Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

■ = Standard

□ = Sur demande / Auf Anfrage / On request

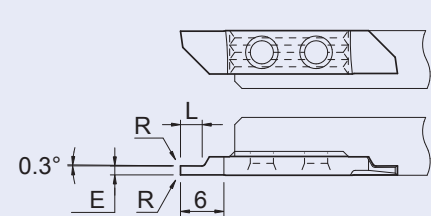


tourneur arrière / pré-coupe
rückwärts drehen / vorstechen
back turning / pre-parting off

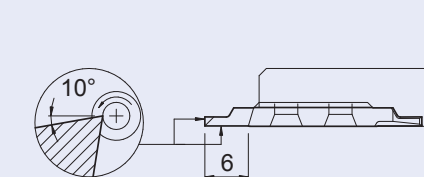


E	L	R	Art. N°	TIN TIALN N (μK20)	HTIN HTIALN HN (μK10)
0.8	2	0	743P-0.8	■ ■ ■	
1.0	2	0	743P-1.0	■ ■ ■	
1.2	2.5	0	743P-1.2	■ ■ ■	
1.5	3	0	743P-1.5	■ ■ ■	

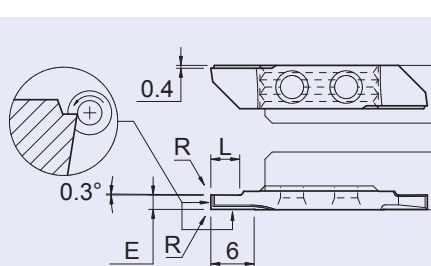
foncer tourner
einstechen und drehen
grooving and turning



E	L	R	Art. N°	TIN TIALN N (μK20)	HTIN HTIALN HN (μK10)
0.5	1.5	0	744-0.5	■ ■ ■	□ ■ ■
0.6	1.8	0	744-0.6	■ ■ ■	
0.75	2	0	744-0.75	■ ■ ■	
0.8	2	0	744-0.8	■ ■ ■	□ ■ ■
0.9	2.5	0	744-0.9	■ ■ ■	
0.95	3	0	744-0.95	■ ■ ■	
1.0	2.5	0	744-1.0	■ ■ ■	□ ■ ■
1.0	2.5	0.08	744-1.0-R08	■ ■ ■	
1.2	3	0	744-1.2	■ ■ ■	
1.5	3	0	744-1.5	■ ■ ■	■ ■ ■
1.5	3	0.08	744-1.5-R08	■ ■ ■	
1.8	4	0	744-1.8	■ ■ ■	
2.0	4	0	744-2.0	■ ■ ■	
2.0	4	0.08	744-2.0-R08	■ ■ ■	
2.5	6	0	744-2.5	■ ■ ■	



0.8	2	0	744x-0.8	■ ■ ■	■ ■ ■
1.0	2.5	0	744x-1.0	■ ■ ■	□ ■ ■
1.0	2.5	0.08	744x-1.0-R08	■ ■ ■	
1.2	3	0	744x-1.2	■ ■ ■	
1.5	3	0	744x-1.5	■ ■ ■	□ ■ ■
1.5	3	0.08	744x-1.5-R08	■ ■ ■	
1.8	4	0	744x-1.8	■ ■ ■	
2.0	4	0	744x-2.0	■ ■ ■	■ ■ ■
2.0	4	0.08	744x-2.0-R08	■ ■ ■	
2.0	4	0.20	744x-2.0-R20	■ ■ ■	
2.5	6	0	744x-2.5	■ ■ ■	



1.0	2	0	744vs-1.0	■ ■ ■	
1.2	2.5	0	744vs-1.2	■ ■ ■	
1.5	3	0	744vs-1.5	■ ■ ■	
1.8	4	0	744vs-1.8	■ ■ ■	
2.0	4	0	744vs-2.0	■ ■ ■	
2.5	6	0	744vs-2.5	■ ■ ■	

7XX-XX-B



Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

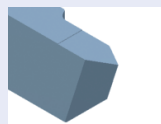
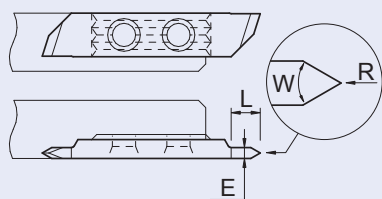
■ = Standard

□ = Sur demande / Auf Anfrage / On request



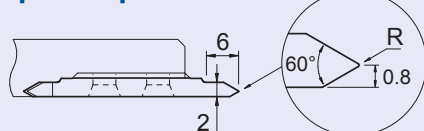
fileter
Gewinde drehen
threading

partial profile



W	E	L	R	Art. N°	TIN TIALN N (μK20)	HTIN HTIALN HN (μK10)
60°	1.5	4	0	736-60-1.5	■ ■ ■	
60°	1.5	4	0.02	736-60-1.5-R02	■ ■ ■	■ ■ ■
60°	2.0	6	0	736-60-2	■ ■ ■	
60°	2.0	6	0.02	736-60-2-R02	■ ■ ■	■ ■ ■
55°	1.5	4	0	736-55-1.5	■ ■ ■	
55°	2.0	6	0	736-55-2	■ ■ ■	

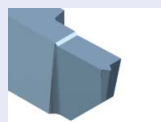
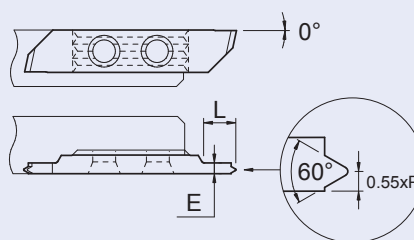
partial profile



Pas Steigung Pitch P	R	Art. N°	TIN TIALN N (μK20)	HTIN HTIALN HN (μK10)
0.50-1.50	0.06	736-A60°	■ ■ ■	

full profile

ISO metric



Pas Steigung Pitch P	E	L	Art. N°	TIN TIALN N (μK20)	HTIN HTIALN HN (μK10)
0.25	1.0	3	736-M-0.25	■ ■ ■	
0.30	1.0	3	736-M-0.30	■ ■ ■	
0.35	1.0	3	736-M-0.35	■ ■ ■	
0.40	1.0	3	736-M-0.40	■ ■ ■	
0.45	1.0	3	736-M-0.45	■ ■ ■	
0.50	1.0	3	736-M-0.50	■ ■ ■	
0.60	1.0	3	736-M-0.60	■ ■ ■	
0.70	1.0	3	736-M-0.70	■ ■ ■	
0.75	1.0	3	736-M-0.75	■ ■ ■	
0.80	1.5	4.5	736-M-0.80	■ ■ ■	
1.00	1.5	4.5	736-M-1.00	■ ■ ■	
1.25	1.5	4.5	736-M-1.25	■ ■ ■	
1.50	2.0	6	736-M-1.50	■ ■ ■	
1.75	2.0	6	736-M-1.75	■ ■ ■	

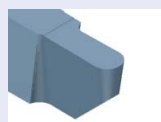
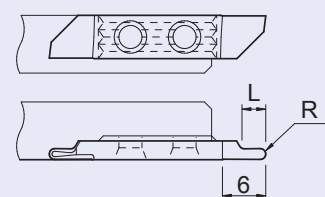
Pour de plus grands pas,
voir série 756 à la page 1.56

Für grössere Steigung,
siehe Serie 756 auf Seite 1.56

For bigger pitch,
see series 756 on page 1.56



plaquette à rayon
Radius-Wendeplatte
insert with radius



R	L	Art. N°	TIN TIALN N (μK20)	HTIN HTIALN HN (μK10)
0.5	2.5	737-R0.5	■ ■ ■	
0.6	2.5	737-R0.6	■ ■ ■	
0.75	3	737-R0.75	■ ■ ■	
0.8	3	737-R0.8	■ ■ ■	
1.0	4	737-R1.0	■ ■ ■	

7XX-XX-B



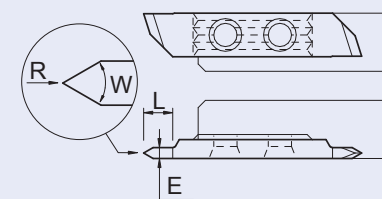
Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

■ = Standard
□ = Sur demande / Auf Anfrage / On request



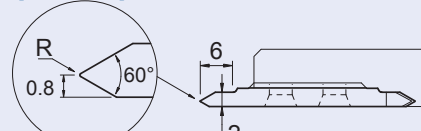
fileter
Gewinde drehen
threading

partial profile



W	E	L	R	Art. N°	TIN TIALN N (μK20)	HTIN HTIALN HN (μK10)
60°	1.5	4	0	746-60-1.5	■ ■ ■	
60°	1.5	4	0.02	746-60-1.5-R02	■ ■ ■	□ ■ ■
60°	2.0	6	0	746-60-2	■ ■ ■	
60°	2.0	6	0.02	746-60-2-R02	■ ■ ■	■ ■ ■
55°	1.5	4	0	746-55-1.5	■ ■ ■	
55°	2.0	6	0	746-55-2	■ ■ ■	

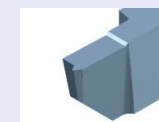
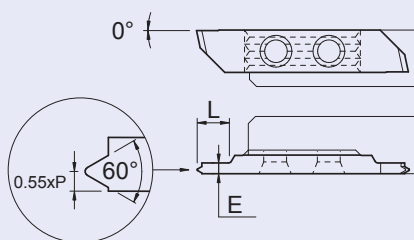
partial profile



Pas Steigung Pitch P	R	Art. N°	TIN TIALN N (μK20)	HTIN HTIALN HN (μK10)
0.50-1.50	0.06	746-A60°	■ ■ ■	

full profile

ISO metric



Pas Steigung Pitch P	E	L	Art. N°	TIN TIALN N (μK20)	HTIN HTIALN HN (μK10)
0.25	1.0	3	746-M-0.25	■ ■ ■	
0.30	1.0	3	746-M-0.30	■ ■ ■	
0.35	1.0	3	746-M-0.35	■ ■ ■	
0.40	1.0	3	746-M-0.40	■ ■ ■	
0.45	1.0	3	746-M-0.45	■ ■ ■	
0.50	1.0	3	746-M-0.50	■ ■ ■	
0.60	1.0	3	746-M-0.60	■ ■ ■	
0.70	1.0	3	746-M-0.70	■ ■ ■	
0.75	1.0	3	746-M-0.75	■ ■ ■	
0.80	1.5	4.5	746-M-0.80	■ ■ ■	
1.00	1.5	4.5	746-M-1.00	■ ■ ■	
1.25	1.5	4.5	746-M-1.25	■ ■ ■	
1.50	2.0	6	746-M-1.50	■ ■ ■	
1.75	2.0	6	746-M-1.75	■ ■ ■	

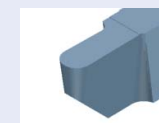
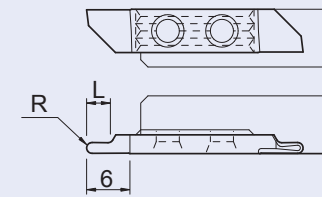
Pour de plus grands pas,
voir série 766 à la page 1.57

Für grössere Steigung,
siehe Serie 766 auf Seite 1.57

For bigger pitch,
see series 766 on page 1.57



plaquette à rayon
Radius-Wendeplatte
insert with radius



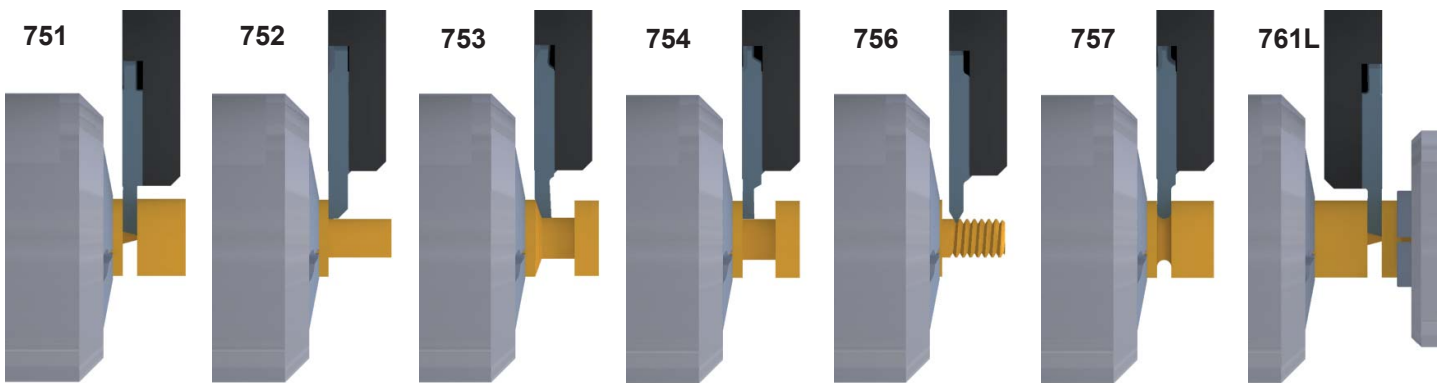
R	L	Art. N°	TIN TIALN N (μK20)	HTIN HTIALN HN (μK10)
0.25	1.5	747-R0.25	■ ■ ■	
0.5	2.5	747-R0.5	■ ■ ■	
0.6	2.5	747-R0.6	■ ■ ■	
0.75	3	747-R0.75	■ ■ ■	
0.8	3	747-R0.8	■ ■ ■	
1.0	4	747-R1.0	■ ■ ■	

7XX-XX-B



Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

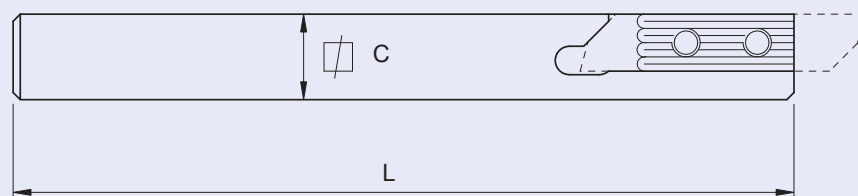
■ = Standard
□ = Sur demande / Auf Anfrage / On request



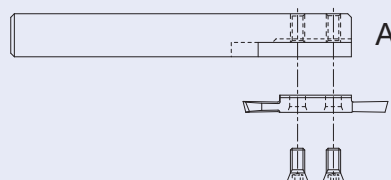
voir page :
siehe Seite :
see page :

1.40 1.42	1.48	1.50 1.52	1.52 1.54	1.56	1.56	1.44 1.46 (1.38)
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porte-outils
Halter
holders

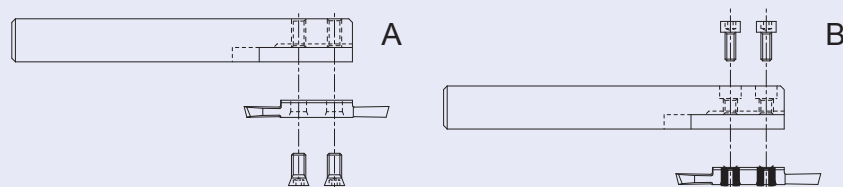


serrage standard (A)
Standard Spannsystem (A)
standard clamping system (A)



C	L	Art. N°
10 X 10	115	750-10
10 X 10	50	750-10-50
12 X 12	130	750-12
12 X 12	90	750-12-90

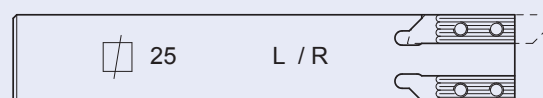
serrage type A et B
Spannsystem Typ A und B
clamping system A and B



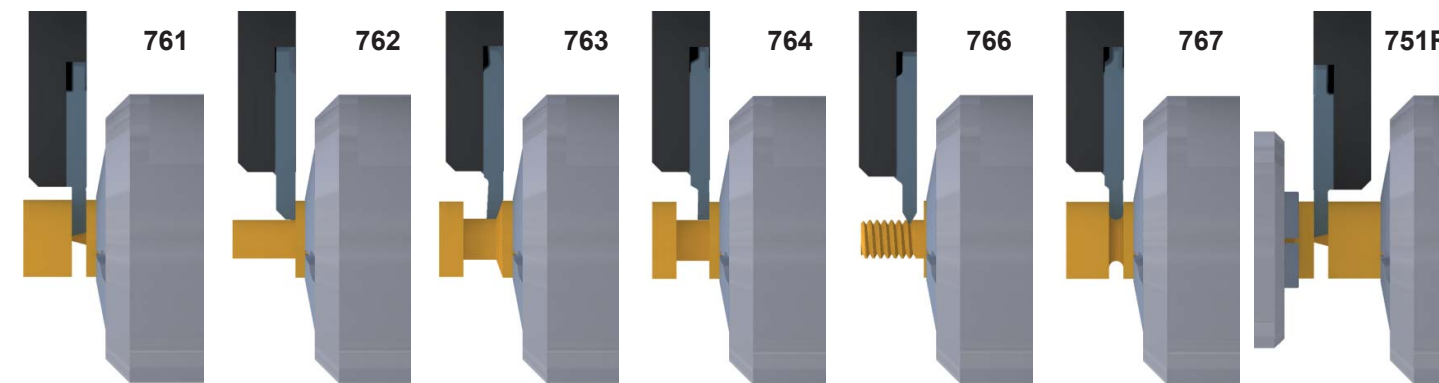
Chaque porte-outil est livré avec 2 paires de vis pour les 2 types de serrage
Halter werden mit 2 Paar Schrauben für beide Spannsysteme geliefert
2 pairs of screws for both clamping systems are included with each tool holder

C	L	Art. N°
10 X 10	115	750-10-AB
12 X 12	130	750-12-AB
12 X 12	90	750-12-90-AB
13 X 13	130	750-13
14 X 14	130	750-14
16 X 16	130	750-16
16 X 16	75	750-16-75
20 X 20	120	750-20

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



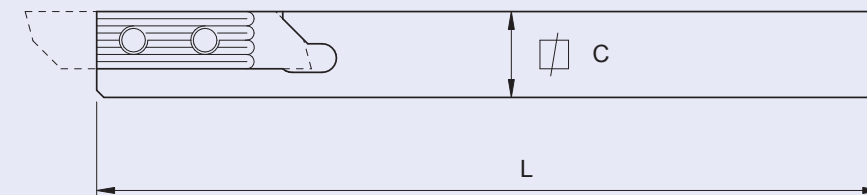
C	L	Art. N°
25 X 25	140	760 / 750 - 25



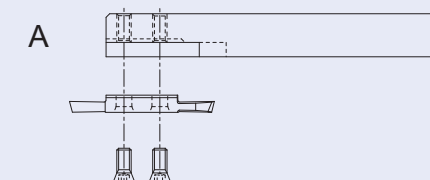
voir page :
siehe Seite :
see page :

1.41 1.43	1.49	1.51 1.53	1.53 1.55	1.57	1.57	1.45 1.47 (1.39)
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porte-outils
Halter
holders

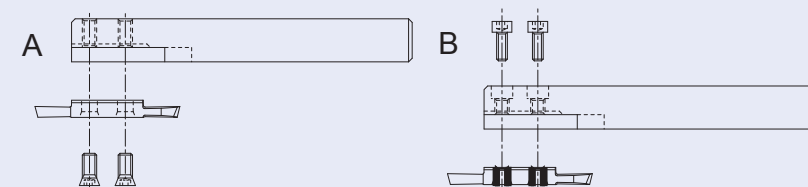


serrage standard (A)
Standard Spannsystem (A)
standard clamping system (A)



C	L	Art. N°
10 X 10	115	760-10
10 X 10	50	760-10-50
12 X 12	130	760-12
12 X 12	90	760-12-90

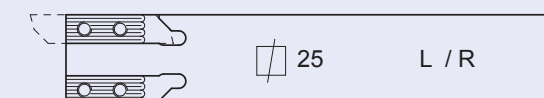
serrage type A et B
Spannsystem Typ A und B
clamping system A and B



Chaque porte-outil est livré avec 2 paires de vis pour les 2 types de serrage
Halter werden mit 2 Paar Schrauben für beide Spannsysteme geliefert
2 pairs of screws for both clamping systems are included with each tool holder

C	L	Art. N°
10 X 10	115	760-10-AB
12 X 12	130	760-12-AB
12 X 12	90	760-12-90-AB
13 X 13	130	760-13
14 X 14	130	760-14
16 X 16	130	760-16
16 X 16	75	760-16-75
20 X 20	120	760-20

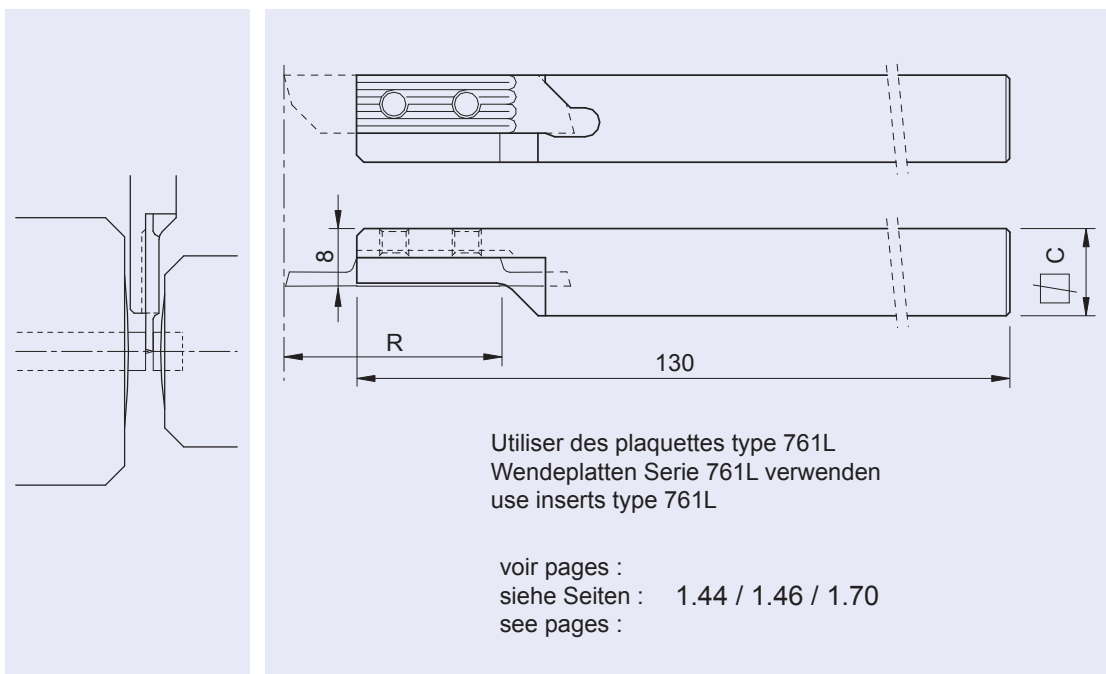
serrage standard (A)
Standard Spannsystem (A)
standard clamping system (A)



C	L	Art. N°
25 X 25	140	760 / 750 - 25

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

porte-outils
Halter
holders



Utiliser des plaquettes type 761L
Wendeplatten Serie 761L verwenden
use inserts type 761L

voir pages :
siehe Seiten : 1.44 / 1.46 / 1.70
see pages :

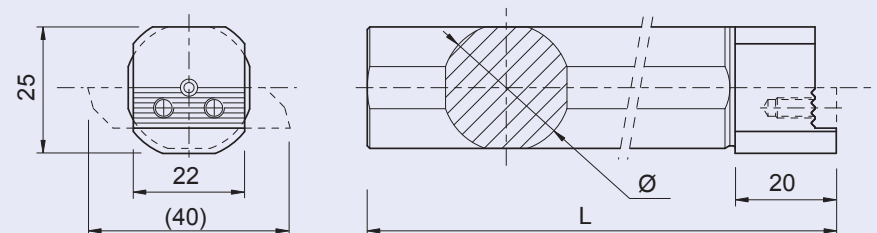
C	R	Art. N°
16 X 16	40	760LC-16

L coupe à gauche
Linksschneiden
left hand cut

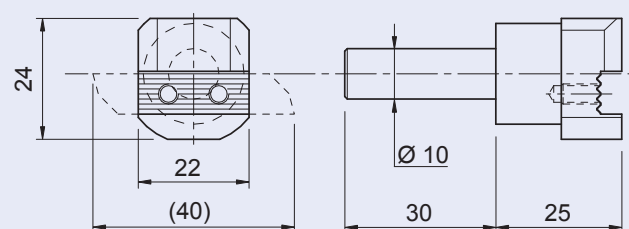
utiliser des plaquettes série 750
Wendeplatten Serie 750 verwenden
use inserts series 750

R coupe à droite
Rechtsschneiden
right hand cut

utiliser des plaquettes série 760
Wendeplatten Serie 760 verwenden
use inserts series 760



Ø	L	Art. N°
19.05	160	760/750-D19.05
19.05	110	760/750-D19.05-S
20	160	760/750-D20
25	200	760/750-D25
25.4	200	760/750-D25.4
25.4	125	760/750-D25.4-S

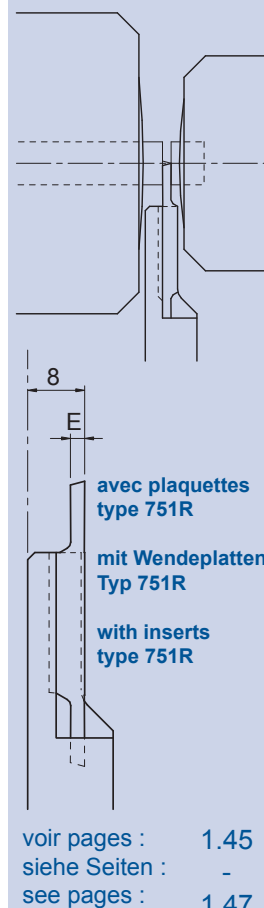


Art. N°
760/750-D10

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

Zum Abstechen von kleinen Werkstücken

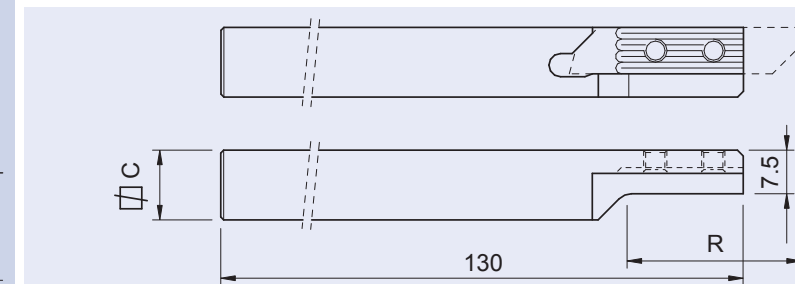
For small parts parting off



avec plaquettes
type 751R
mit Wendeplatten
Typ 751R
with inserts
type 751R

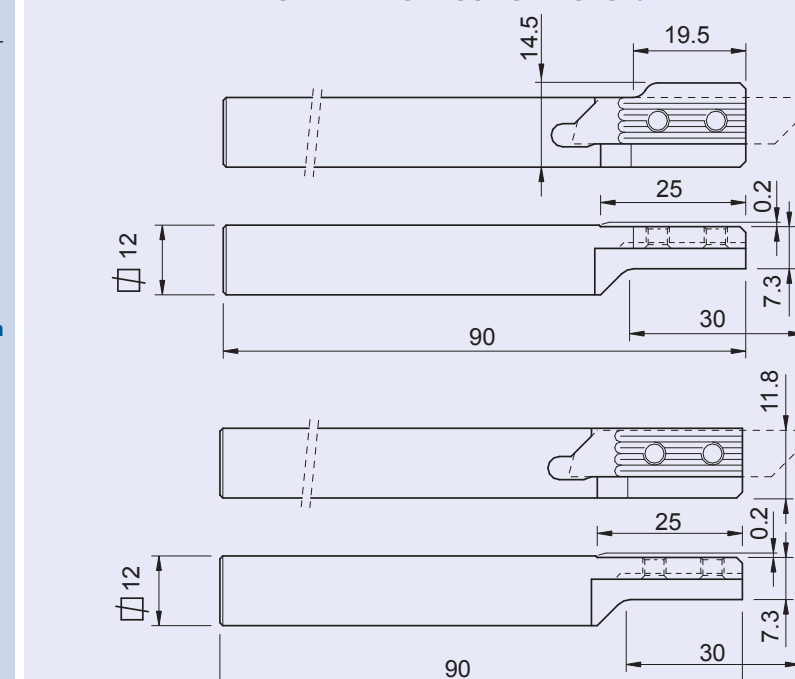
voir pages : 1.45
siehe Seiten : -
see pages : 1.47

porte-outils
Halter
holders



C	R	Art. N°
12 X 12	30	750RC-12
16 X 16	40	750RC-16

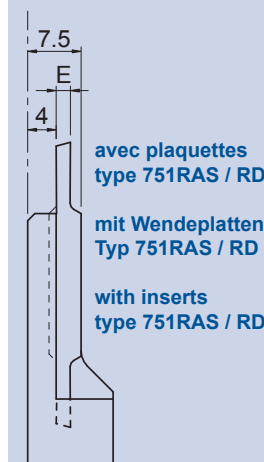
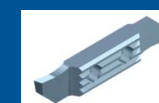
SPECIAL TORNOS AS14 / SAS16



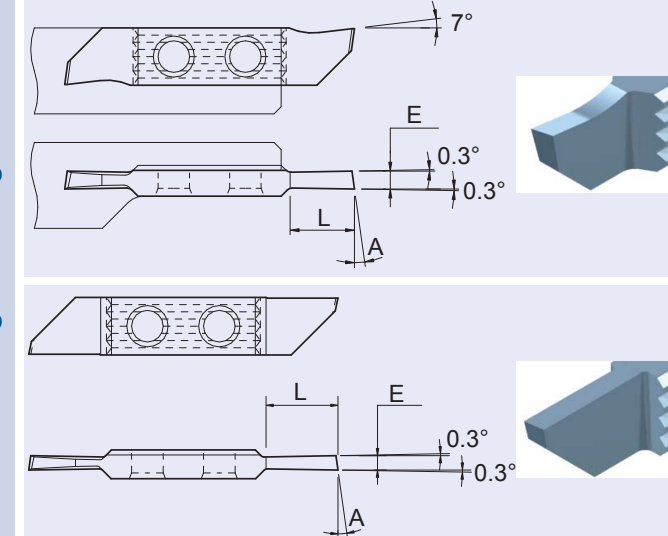
Art. N°
750RAS-12

Art. N°
750RAS12-H11.8

tronçonnage
abstechen
parting off

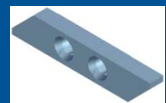


avec plaquettes
type 751RAS / RD
mit Wendeplatten
Typ 751RAS / RD
with inserts
type 751RAS / RD

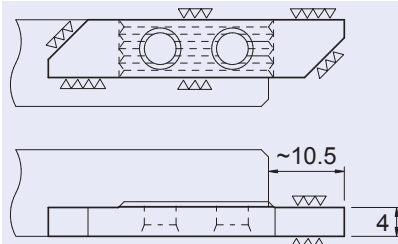
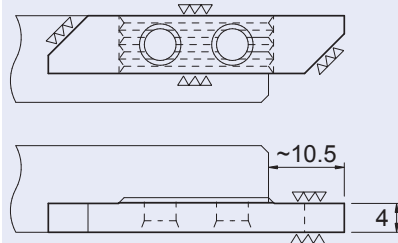


■ = Standard
□ = Sur demande / Auf Anfrage / On request

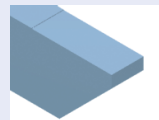
A	E	L	Art. N°	TIN	TIALN	HTIN	HTIALN
8°	1.6	7.5	751RAS-1.6-8°	■	■	■	■
8°	2.0	9	751RAS-2.0-8°	■	■	■	■
8°	2.5	9	751RAS-2.5-8°	■	■	■	■
15°	1.6	7.5	751RAS-1.6-15°	■	■	■	■
15°	2.0	9	751RAS-2.0-15°	■	■	■	■
15°	2.5	9	751RAS-2.5-15°	■	■	■	■
8°	1.0	5	751RD-1.0-8°	■	■	■	■
8°	1.2	5	751RD-1.2-8°	■	■	■	■
8°	1.5	8	751RD-1.5-8°	■	■	■	■
8°	1.6	8	751RD-1.6-8°	■	■	■	■
8°	1.8	10	751RD-1.8-8°	■	■	■	■
8°	2.0	10	751RD-2.0-8°	■	■	■	■
8°	2.5	10	751RD-2.5-8°	■	■	■	■



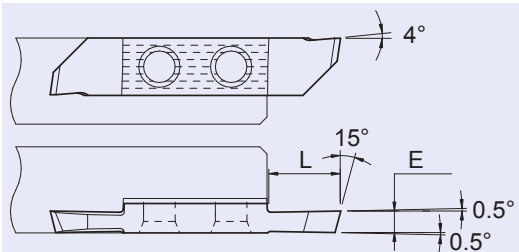
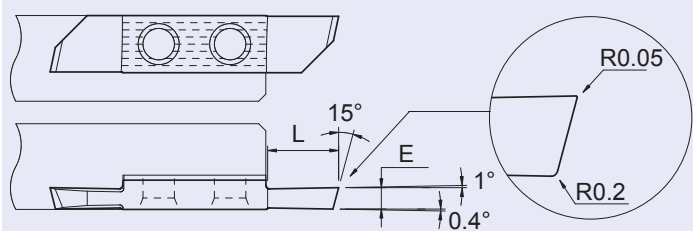
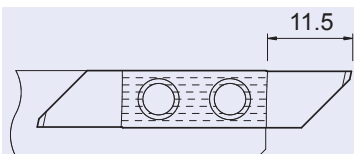
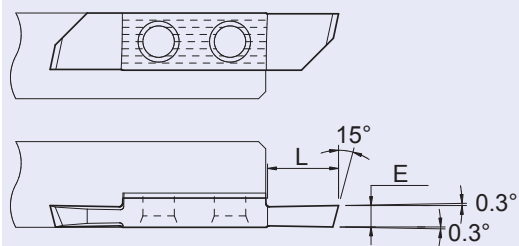
plaquette ébauche
VHM-Rohling
blank insert



face de coupe polie
Schneidfläche poliert
cutting face polished



tronçonnage
abstechen
parting off



7XX-XX-B



Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

■ = Standard
□ = Sur demande / Auf Anfrage / On request

Art. N°	N (μK20)	HN (μK10)
751-E	■	■

Art. N°	N (μK20)	HN (μK10)
751-EP	■	■

E	L	Art. N°	TIN TIALN N (μK20)	HTIN HTIALN HN (μK10)
1.0	5	751-1.0	■ ■ ■	□ □ ■
1.2	5	751-1.2	■ ■ ■	■ ■ ■
1.5	7.5	751-1.5	■ ■ ■	□ ■ ■
1.8	7.5	751-1.8	■ ■ ■	■ ■ ■
2.0	10	751-2.0	■ ■ ■	□ ■ ■
2.2	10	751-2.2	■ ■ ■	■ ■ ■
2.5	10	751-2.5	■ ■ ■	□ ■ ■
3.0	10	751-3.0	■ ■ ■	■ ■ ■

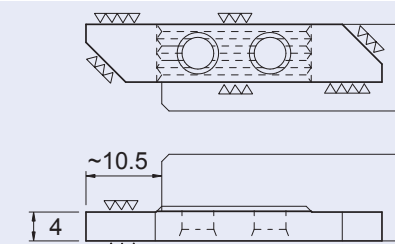
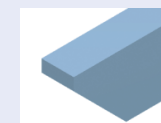
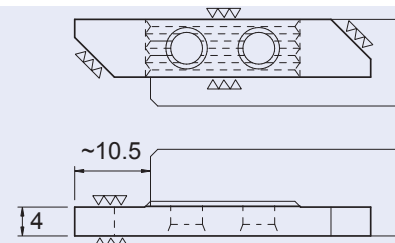
2.0	11.5	751s-2.0	■ ■ ■	■ ■ ■
2.2	11.5	751s-2.2	■ ■ ■	■ ■ ■
2.5	11.5	751s-2.5	■ ■ ■	■ ■ ■
3.0	11.5	751s-3.0	■ ■ ■	■ ■ ■

1.5	7.5	751-1.5-R05	■ ■ ■	■ ■ ■
2.0	10	751-2.0-R05	■ ■ ■	■ ■ ■
2.5	10	751-2.5-R05	■ ■ ■	■ ■ ■

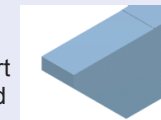
2.0	10	751x4-2.0	■ ■ ■	■ ■ ■
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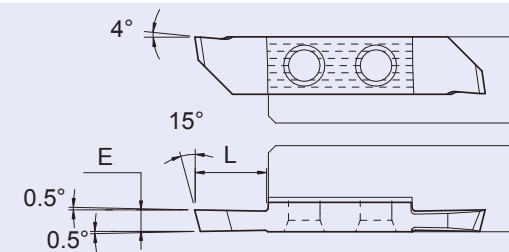
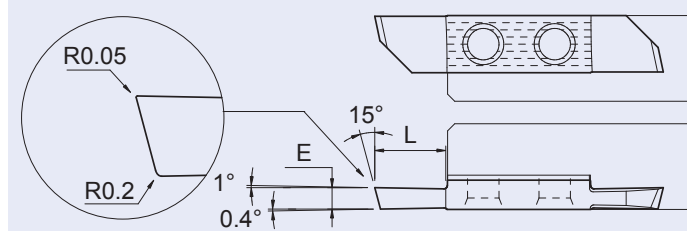
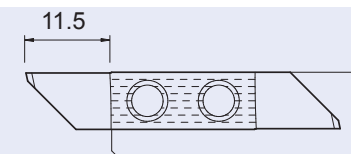
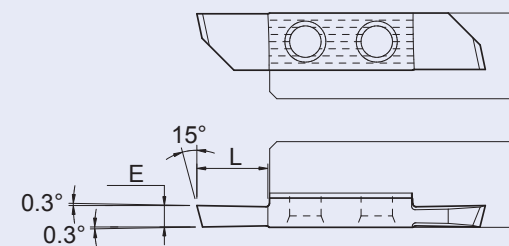
plaquette ébauche
VHM-Rohling
blank insert



face de coupe polie
Schneidfläche poliert
cutting face polished



tronçonnage
abstechen
parting off



7XX-XX-B



Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

■ = Standard
□ = Sur demande / Auf Anfrage / On request

Art. N°	N (μK20)	HN (μK10)
761-E	■	■

Art. N°	N (μK20)	HN (μK10)
761-EP	■	■

E	L	Art. N°	TIN TIALN N (μK20)	HTIN HTIALN HN (μK10)
1.0	5	761-1.0	■ ■ ■	□ ■ ■
1.2	5	761-1.2	■ ■ ■	■ ■ ■
1.5	7.5	761-1.5	■ ■ ■	■ ■ ■
1.8	7.5	761-1.8	■ ■ ■	■ ■ ■
2.0	10	761-2.0	■ ■ ■	■ ■ ■
2.2	10	761-2.2	■ ■ ■	■ ■ ■
2.5	10	761-2.5	■ ■ ■	□ ■ ■
3.0	10	761-3.0	■ ■ ■	■ ■ ■

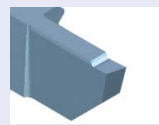
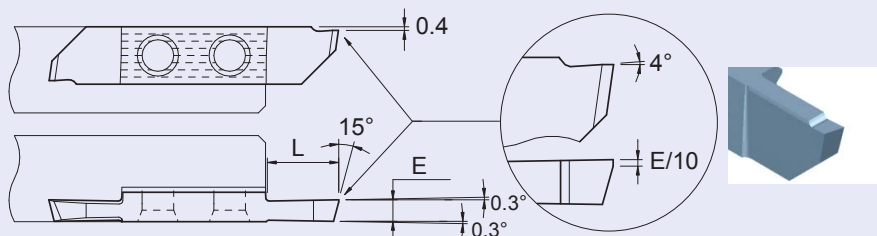
2.0	11.5	761s-2.0	■ ■ ■	■ ■ ■
2.2	11.5	761s-2.2	■ ■ ■	■ ■ ■
2.5	11.5	761s-2.5	■ ■ ■	■ ■ ■
3.0	11.5	761s-3.0	■ ■ ■	■ ■ ■

1.5	7.5	761-1.5-R05	■ ■ ■	■ ■ ■
2.0	10	761-2.0-R05	■ ■ ■	■ ■ ■
2.5	10	761-2.5-R05	■ ■ ■	■ ■ ■

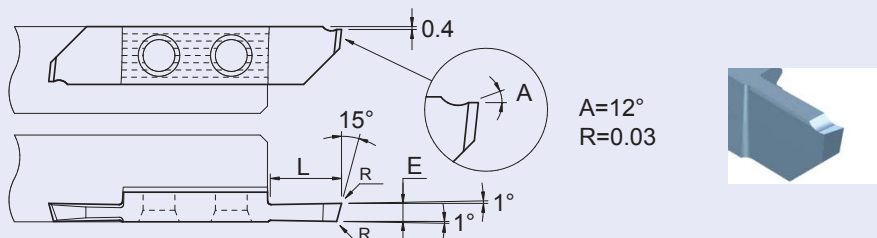
1.5	7.5	761x4-1.5	■ ■ ■	■ ■ ■
2.0	10	761x4-2.0	■ ■ ■	■ ■ ■
2.5	10	761x4-2.5	■ ■ ■	■ ■ ■



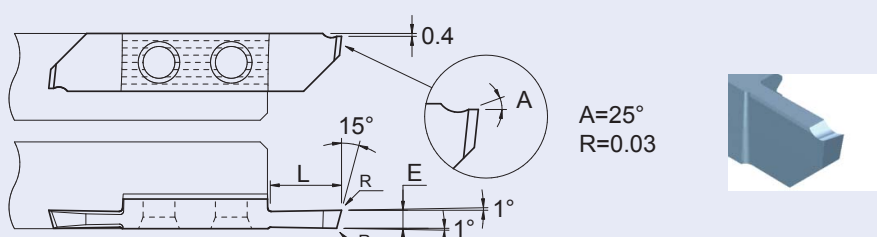
tronçonnage
abstechen
parting off



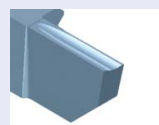
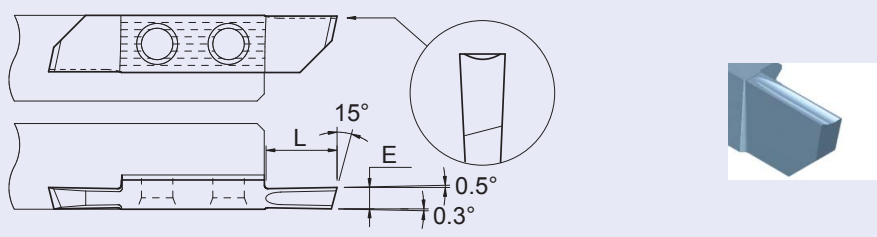
E	L	Art. N°	TIN	TIALN	N (µK20)	HTIN	HTIALN	HN (µK10)
1.5	7.5	751xf-1.5	■	■	■			
2.0	10	751xf-2.0	■	■	■	■	■	■
2.2	10	751xf-2.2	■	■	■			
2.5	10	751xf-2.5	■	■	■			
3.0	10	751xf-3.0	■	■	■			



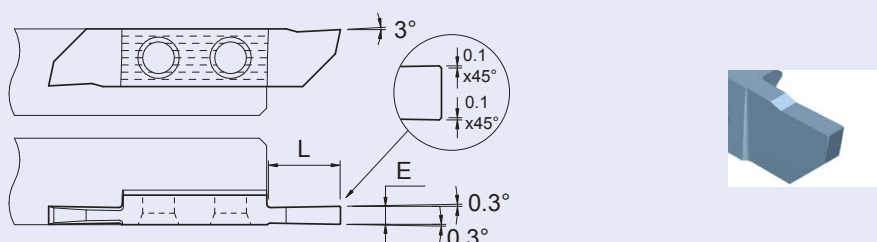
E	L	Art. N°	TIN	TIALN	N (µK20)	HTIN	HTIALN	HN (µK10)
1.5	7.5	751x12-1.5	■	■	■			
2.0	10	751x12-2.0	■	■	■	□	□	■
2.5	10	751x12-2.5	■	■	■			



E	L	Art. N°	TIN	TIALN	N (µK20)	HTIN	HTIALN	HN (µK10)
1.5	7.5	751x25-1.5	■	■	■			
2.0	10	751x25-2.0	■	■	■			
2.5	10	751x25-2.5	■	■	■			



E	L	Art. N°	TIN	TIALN	N (µK20)	HTIN	HTIALN	HN (µK10)
2.0	10	751u-2.0	■	■	■			



E	L	Art. N°	TIN	TIALN	N (µK20)	HTIN	HTIALN	HN (µK10)
2.0	10	751nxf-2.0	■	■	■			
2.5	10	751nxf-2.5	■	■	■			
3.0	10	751nxf-3.0	■	■	■			

7XX-XX-B



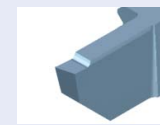
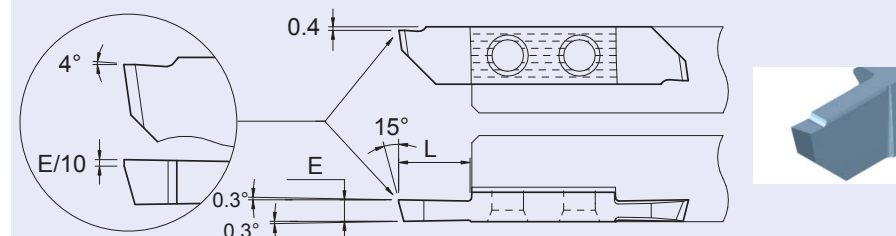
Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

■ = Standard

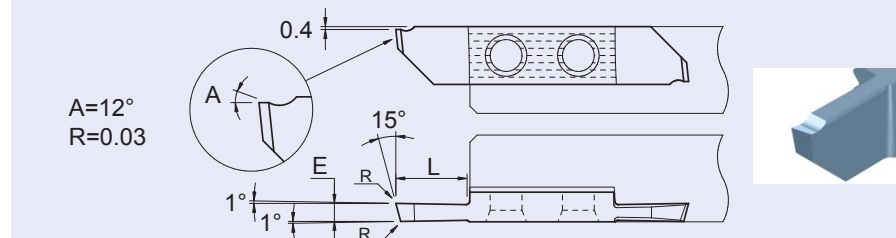
□ = Sur demande / Auf Anfrage / On request



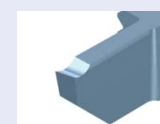
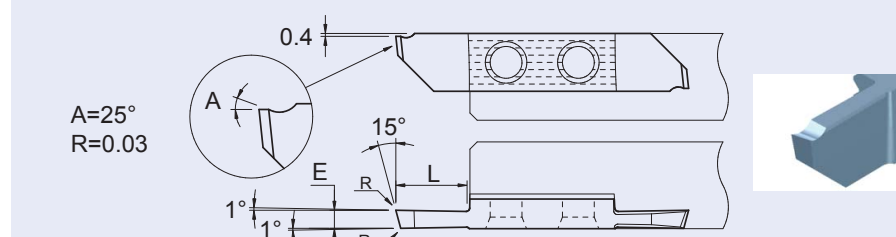
tronçonnage
abstechen
parting off



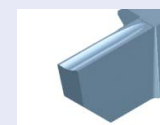
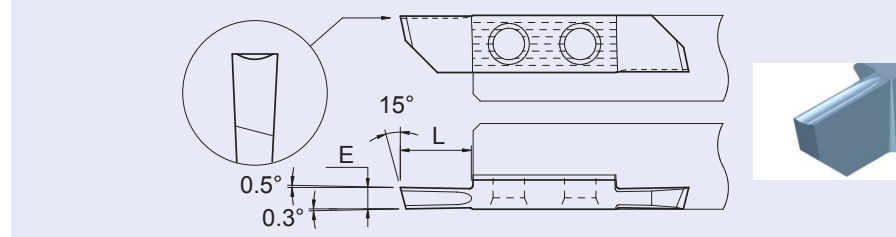
E	L	Art. N°	TIN	TIALN	N (µK20)	HTIN	HTIALN	HN (µK10)
1.5	7.5	761xf-1.5	■	■	■			
2.0	10	761xf-2.0	■	■	■	■	■	■
2.2	10	761xf-2.2	■	■	■			
2.5	10	761xf-2.5	■	■	■			
3.0	10	761xf-3.0	■	■	■			



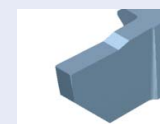
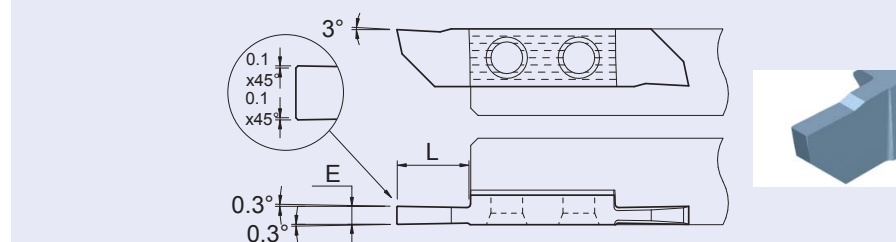
E	L	Art. N°	TIN	TIALN	N (µK20)	HTIN	HTIALN	HN (µK10)
1.5	7.5	761x12-1.5	■	■	■			
2.0	10	761x12-2.0	■	■	■	□	□	■
2.5	10	761x12-2.5	■	■	■			



E	L	Art. N°	TIN	TIALN	N (µK20)	HTIN	HTIALN	HN (µK10)
1.5	7.5	761x25-1.5	■	■	■			
2.0	10	761x25-2.0	■	■	■			
2.5	10	761x25-2.5	■	■	■			



E	L	Art. N°	TIN	TIALN	N (µK20)	HTIN	HTIALN	HN (µK10)
2.0	10	761u-2.0	■	■	■			



E	L	Art. N°	TIN	TIALN	N (µK20)	HTIN	HTIALN	HN (µK10)
2.0	10	761nxf-2.0	■	■	■			
2.5	10	761nxf-2.5	■	■	■			
3.0	10	761nxf-3.0	■	■	■			

7XX-XX-B



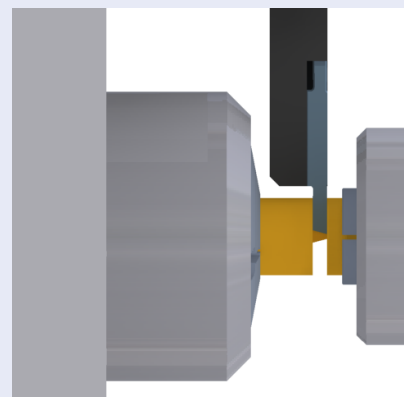
Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

■ = Standard

□ = Sur demande / Auf Anfrage / On request

coupe à gauche déportée
versetztes Linksschneiden
left cut off line

broche principale
Hauptspindel
Mainspindle



contre-broche
Gegenspindel
subspindle

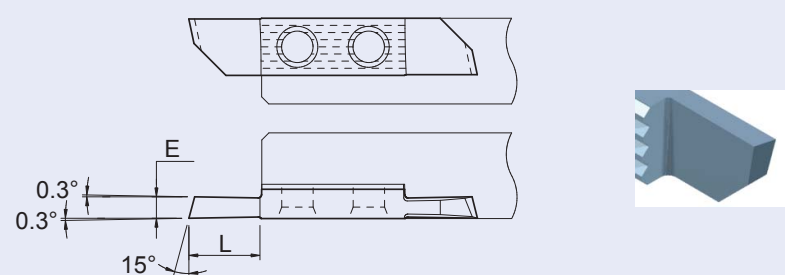
Utiliser des porte-outils série 760,
voir pages 1.37 et 1.38.

Halter Serie 760 verwenden,
siehe Seiten 1.37 und 1.38.

Use 760 series holders,
see pages 1.37 und 1.38.



tronçonnage
abstechen
parting off



E	L	Art. N°	TiN	TiALN	N (µK20)	HTiN	HTiALN	HN (µK10)
1.0	5	761L-1.0	■	■	■			
1.5	7.5	761L-1.5	■	■	■			
1.8	7.5	761L-1.8	■	■	■			
2.0	10	761L-2.0	■	■	■	□	□	■
2.2	10	761L-2.2	■	■	■			
2.5	10	761L-2.5	■	■	■			
3.0	10	761L-3.0	■	■	■			

1.0	5.5	761Ls-1.0	■	■	■			
1.5	8	761Ls-1.5	■	■	■			
2.0	11.5	761Ls-2.0	■	■	■			
2.2	11.5	761Ls-2.2	■	■	■			
2.5	11.5	761Ls-2.5	■	■	■			
3.0	11.5	761Ls-3.0	■	■	■			

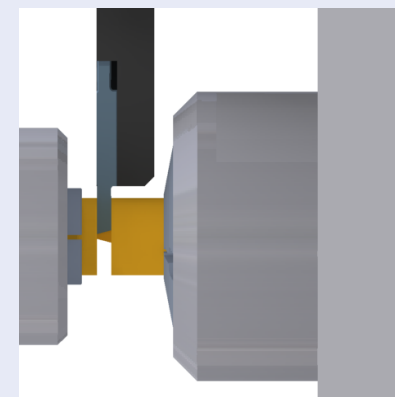
1.5	7.5	761L-1.5-R05	■	■	■			
2.0	10	761L-2.0-R05	■	■	■			

2.0	10	761Lx4-2.0	■	■	■			
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■ = Standard
□ = Sur demande / Auf Anfrage / On request

coupe à droite déportée
versetztes Rechtsschneiden
right cut off line

contre-broche
Gegenspindel
subspindle



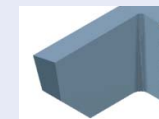
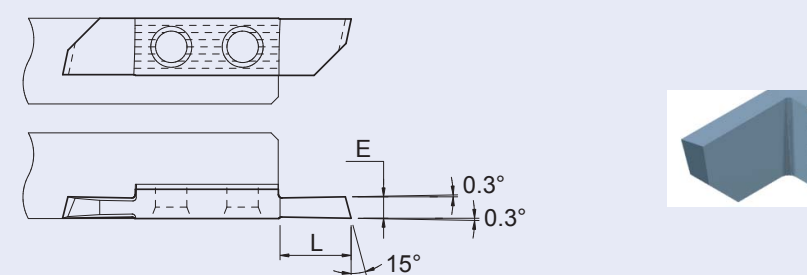
broche principale
Hauptspindel
Mainspindle

Utiliser des porte-outils série 750,
voir pages 1.36 et 1.39.

Utiliser des porte-outils série 750,
siehe Seiten 1.36 und 1.39.

Use 750 series holders,
see pages 1.36 und 1.39.

tronçonnage
abstechen
parting off



E	L	Art. N°	TiN	TiALN	N (µK20)	HTiN	HTiALN	HN (µK10)
1.0	5	751R-1.0	■	■	■			
1.5	7.5	751R-1.5	■	■	■	□	□	■
1.8	7.5	751R-1.8	■	■	■			
2.0	10	751R-2.0	■	■	■	■	■	■
2.2	10	751R-2.2	■	■	■			
2.5	10	751R-2.5	■	■	■	■	■	■
3.0	10	751R-3.0	■	■	■			

1.0	5.5	751Rs-1.0	■	■	■			
1.5	8	751Rs-1.5	■	■	■			
2.0	11.5	751Rs-2.0	■	■	■			
2.2	11.5	751Rs-2.2	■	■	■			
2.5	11.5	751Rs-2.5	■	■	■			
3.0	11.5	751Rs-3.0	■	■	■			

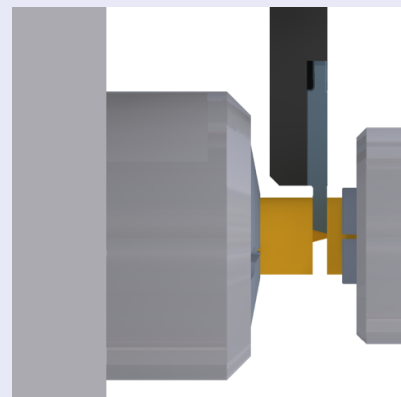
1.5	7.5	751R-1.5-R05	■	■	■			
2.0	10	751R-2.0-R05	■	■	■			

1.5	7.5	751Rx4-1.5	■	■	■			
2.0	10	751Rx4-2.0	■	■	■			
2.5	10	751Rx4-2.5	■	■	■			

■ = Standard
□ = Sur demande / Auf Anfrage / On request

coupe à gauche déportée
versetztes Linksschneiden
left cut off line

broche principale
Hauptspindel
Mainspindle



contre-broche
Gegenspindel
subspindle

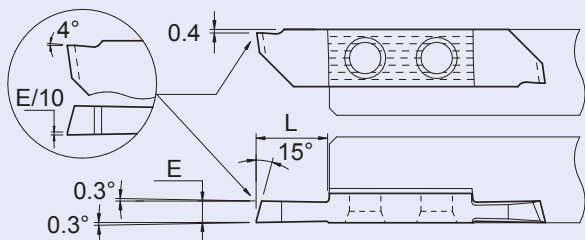
Utiliser des porte-outils série 760,
voir pages 1.37 et 1.38.

Halter Serie 760 verwenden,
siehe Seiten 1.37 und 1.38.

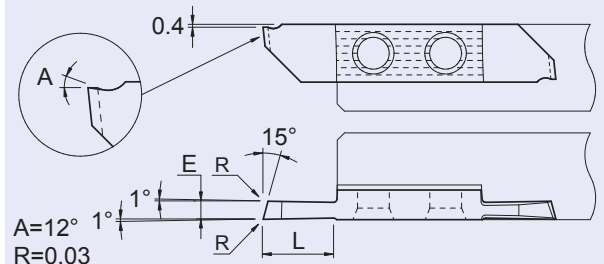
Use 760 series holders,
see pages 1.37 und 1.38.



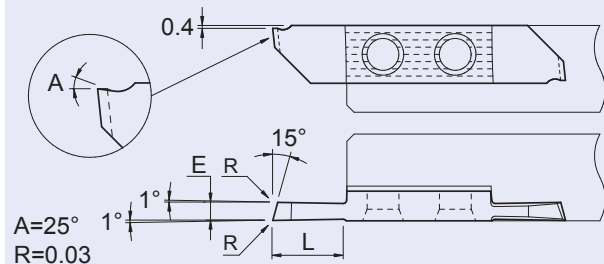
tronçonnage
abstechen
parting off



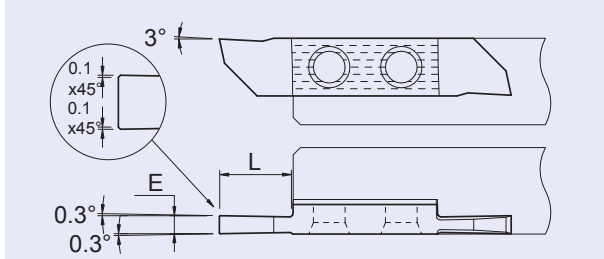
E	L	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
2.0	10	761Lxf-2.0	■	■	■			
2.5	10	761Lxf-2.5	■	■	■			
3.0	10	761Lxf-3.0	■	■	■			



2.0	10	761Lx12-2.0	■	■	■			
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2.0	10	761Lx25-2.0	■	■	■			
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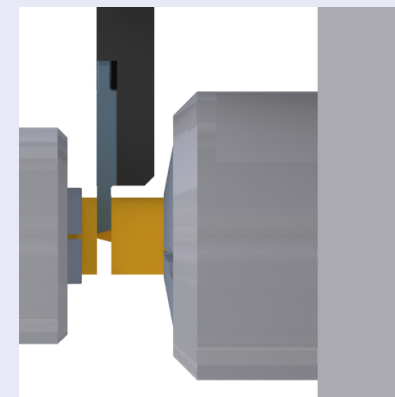


2.0	10	761nxf-2.0	■	■	■			
2.5	10	761nxf-2.5	■	■	■			
3.0	10	761nxf-3.0	■	■	■			

■ = Standard
□ = Sur demande / Auf Anfrage / On request

coupe à droite déportée
versetztes Rechtsschneiden
right cut off line

contre-broche
Gegenspindel
subspindle



broche principale
Hauptspindel
Mainspindle

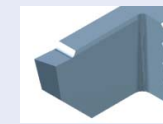
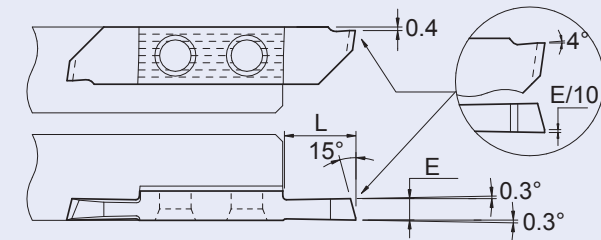
Utiliser des porte-outils série 750,
voir pages 1.36 et 1.39.

Utiliser des porte-outils série 750,
siehe Seiten 1.36 und 1.39.

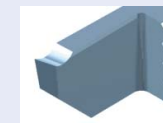
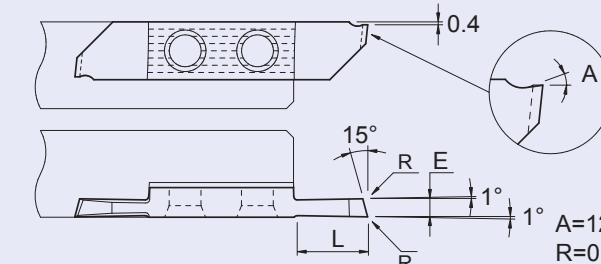
Use 750 series holders,
see pages 1.36 und 1.39.



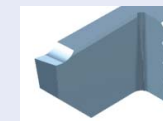
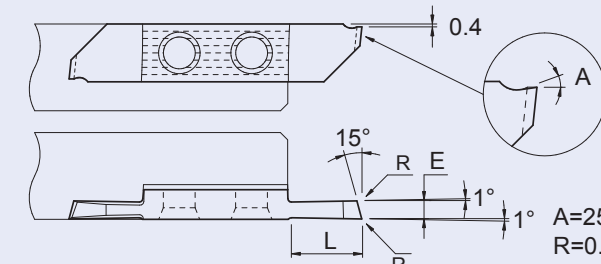
tronçonnage
abstechen
parting off



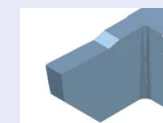
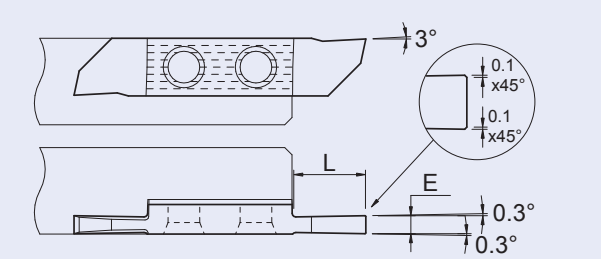
E	L	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
1.5	10	751Rxf-1.5	■	■	■	□	□	■
2.0	10	751Rxf-2.0	■	■	■	□	□	■
2.5	10	751Rxf-2.5	■	■	■			
3.0	10	751Rxf-3.0	■	■	■			



1.5	7.5	751Rx12-1.5	■	■	■			
2.0	10	751Rx12-2.0	■	■	■	□	□	■



2.0	10	751Rx25-2.0	■	■	■			
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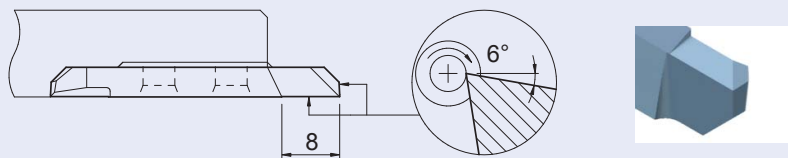
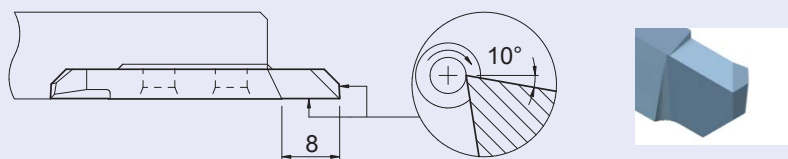
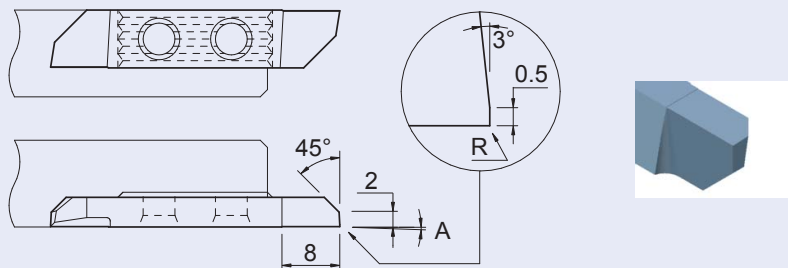


2.0	10	751nxf-2.0	■	■	■			
2.5	10	751nxf-2.5	■	■	■			
3.0	10	751nxf-3.0	■	■	■			

■ = Standard
□ = Sur demande / Auf Anfrage / On request



tourneur avant
vorwärts drehen
front turning



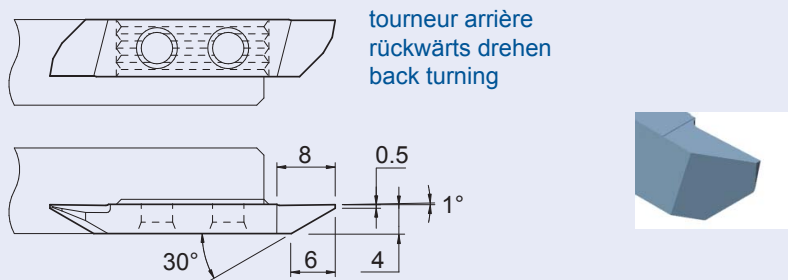
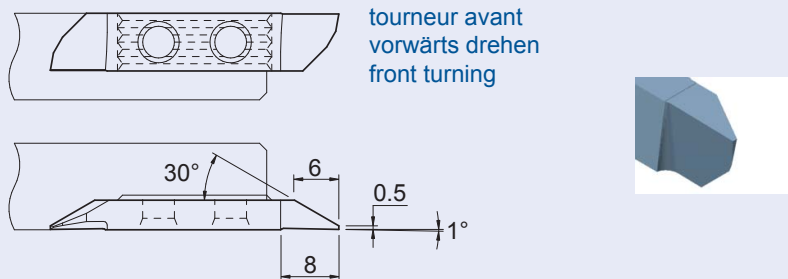
A	R	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
0°	0	752	■	■	■	□	□	■
3°	0	752-3°	■	■	■			

0°	0	752x	■	■	■	□	□	■
0°	0.2	752x-R20	■	■	■			

0°	0	752Px	■	■	■			
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tourneur multifonction
Mehrzweck Dreher
multifunction turning



Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
752s05	■	■	■	□	□	■

753s05	■	■	■	□	□	■
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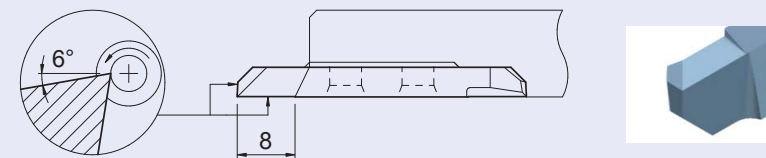
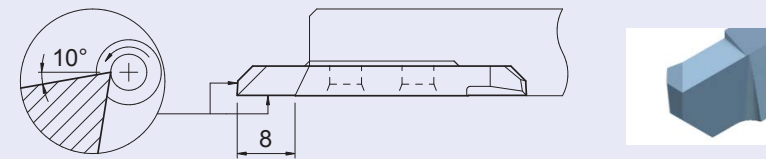
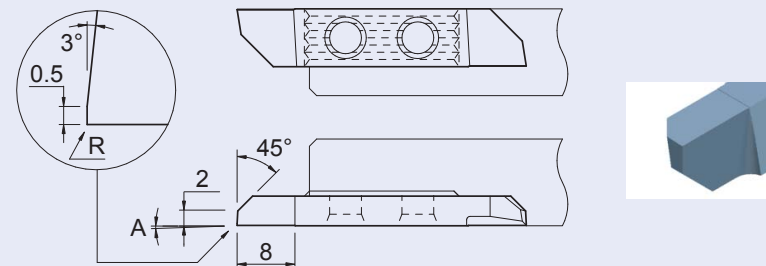


Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

■ = Standard
□ = Sur demande / Auf Anfrage / On request



tourneur avant
vorwärts drehen
front turning



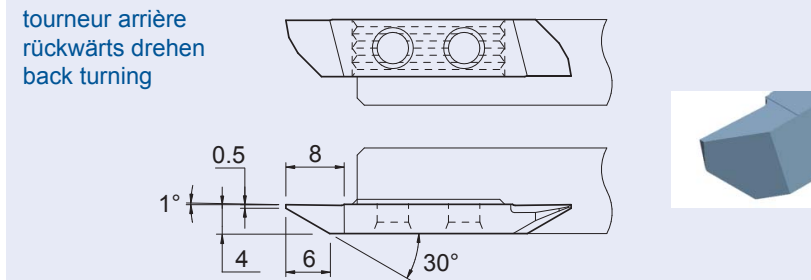
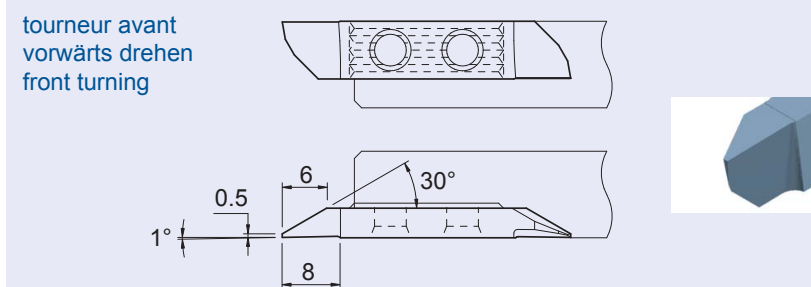
A	R	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
0°	0	762	■	■	■	□	□	■
0°	0.2	762-R20	■	■	■			
3°	0	762-3°	■	■	■	□	□	■

0°	0	762x	■	■	■	□	□	■
0°	0.2	762x-R20	■	■	■			

0°	0	762Px	■	■	■			
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tourneur multifonction
Mehrzweck Dreher
multifunction turning



Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
762s05	■	■	■	□	□	■

763s05	■	■	■	□	□	■
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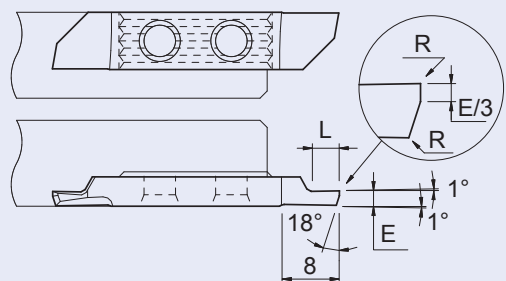


Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

■ = Standard
□ = Sur demande / Auf Anfrage / On request



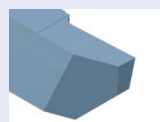
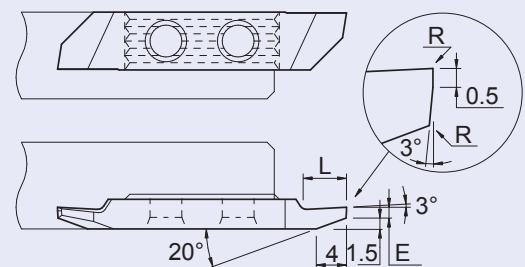
tourneur arrière / pré-coupe
rückwärts drehen / vorstechen
back turning / pre-parting off



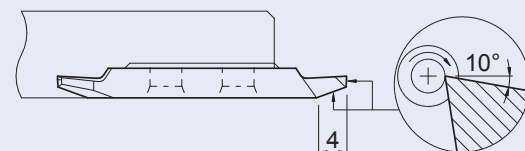
E	L	R	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
1.5	3	0	753P-1.5	■	■	■			
1.8	3.5	0	753P-1.8	■	■	■			
2.0	4	0	753P-2.0	■	■	■			
2.2	4.5	0	753P-2.2	■	■	■			
2.5	5	0	753P-2.5	■	■	■			
3.0	6	0	753P-3.0	■	■	■			



tourneur arrière
rückwärts drehen
back turning

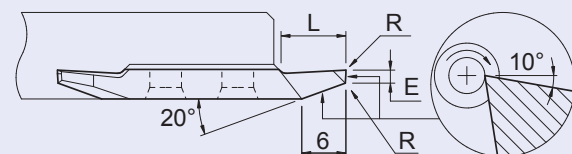


E	L	R	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
1.0	5	0	753-1.0	■	■	■			
1.0	5	0.08	753-1.0-R08	■	■	■			
1.5	6	0	753-1.5	■	■	■			
2.0	7.5	0	753-2.0	■	■	■			
2.5	9	0	753-2.5	■	■	■			



1.0	5	0	753x-1.0	■	■	■			
1.0	5	0.08	753x-1.0-R08	■	■	■			
1.0	5	0.2	753x-1.0-R20	■	■	■			
1.5	6	0	753x-1.5	■	■	■			
1.5	6	0.2	753x-1.5-R20	■	■	■			
2.0	7.5	0	753x-2.0	■	■	■			
2.0	7.5	0.2	753x-2.0-R20	■	■	■			
2.5	9	0	753x-2.5	■	■	■			
2.5	9	0.2	753x-2.5-R20	■	■	■			

tourneur arrière pour passe profonde
rückwärts drehen für Tiefbearbeitung
back turning for deep cut



1.8	9	0	753xs-1.8	■	■	■			
1.8	9	0.2	753xs-1.8-R20	■	■	■			

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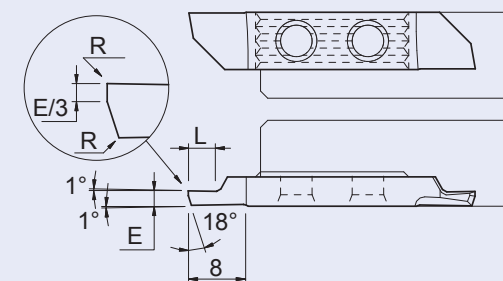
Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

■ = Standard

□ = Sur demande / Auf Anfrage / On request

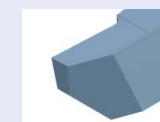
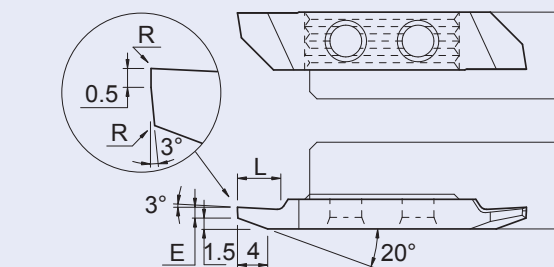


tourneur arrière / pré-coupe
rückwärts drehen / vorstechen
back turning / pre-parting off

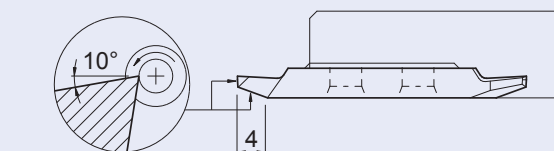


E	L	R	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
1.5	3	0	763P-1.5	■	■	■			
1.8	3.5	0	763P-1.8	■	■	■			
2.0	4	0	763P-2.0	■	■	■			
2.2	4.5	0	763P-2.2	■	■	■			
2.5	5	0	763P-2.5	■	■	■			
3.0	6	0	763P-3.0	■	■	■			

tourneur arrière
rückwärts drehen
back turning

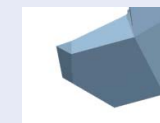
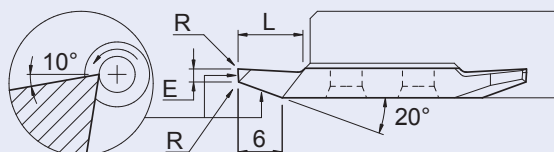


E	L	R	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
1.0	5	0	763-1.0	■	■	■	□	□	■
1.0	5	0.08	763-1.0-R08	■	■	■			
1.5	6	0	763-1.5	■	■	■	□	□	■
2.0	7.5	0	763-2.0	■	■	■			
2.5	9	0	763-2.5	■	■	■			



1.0	5	0	763x-1.0	■	■	■	□	□	■
1.0	5	0.08	763x-1.0-R08	■	■	■			
1.0	5	0.2	763x-1.0-R20	■	■	■			
1.5	6	0	763x-1.5	■	■	■	□	□	■
1.5	6	0.2	763x-1.5-R20	■	■	■			
2.0	7.5	0	763x-2.0	■	■	■			
2.0	7.5	0.2	763x-2.0-R20	■	■	■			
2.5	9	0	763x-2.5	■	■	■			
2.5	9	0.2	763x-2.5-R20	■	■	■			

tourneur arrière pour passe profonde
rückwärts drehen für Tiefbearbeitung
back turning for deep cut



1.8	9	0	763xs-1.8	■	■	■			
1.8	9	0.2	763xs-1.8-R20	■	■	■			

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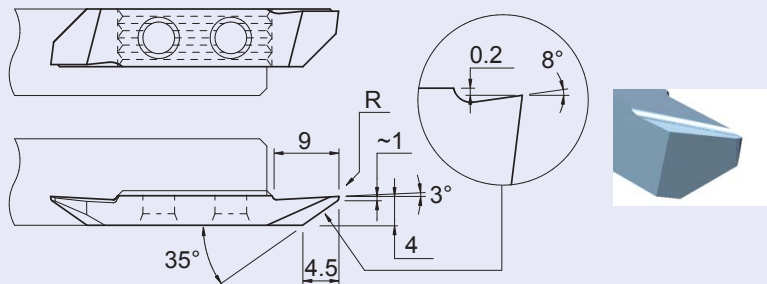
Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

■ = Standard

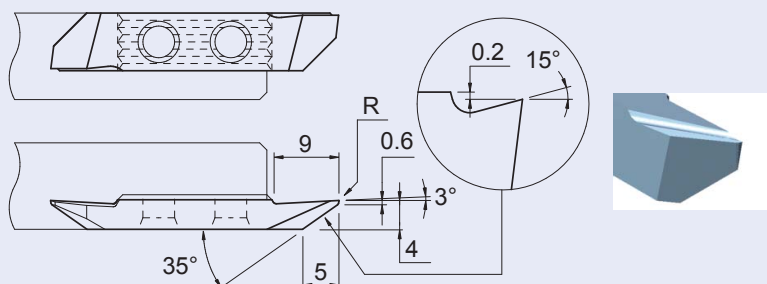
□ = Sur demande / Auf Anfrage / On request



tourneur arrière
rückwärts drehen
back turning



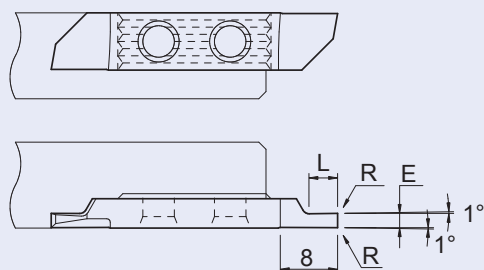
R	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
0	753vx-8°	■	■	■			
0.08	753vx-8°-R08	■	■	■			



R	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
0	753vx-15°	■	■	■			
0.08	753vx-15°-R08	■	■	■			



foncer tourner
einstechen und drehen
grooving and turning



E	L	R	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
0.5	1.5	0	754-0.5	■	■	■			
0.75	2	0	754-0.75	■	■	■			
0.95	3	0	754-0.95	■	■	■			
1.0	2.5	0	754-1.0	■	■	■			
1.0	2.5	0.08	754-1.0-R08	■	■	■			
1.2	3	0	754-1.2	■	■	■			
1.5	3	0	754-1.5	■	■	■	□	□	■
1.5	3	0.08	754-1.5-R08	■	■	■			
1.8	4	0	754-1.8	■	■	■			
2.0	4	0	754-2.0	■	■	■	□	□	■
2.0	4	0.08	754-2.0-R08	■	■	■			
2.0	4	0.2	754-2.0-R20	■	■	■			
2.5	6	0	754-2.5	■	■	■			
3.0	6	0	754-3.0	■	■	■			
3.0	6	0.08	754-3.0-R08	■	■	■			
3.0	6	0.2	754-3.0-R20	■	■	■			
4.0	8	0	754-4.0	■	■	■			

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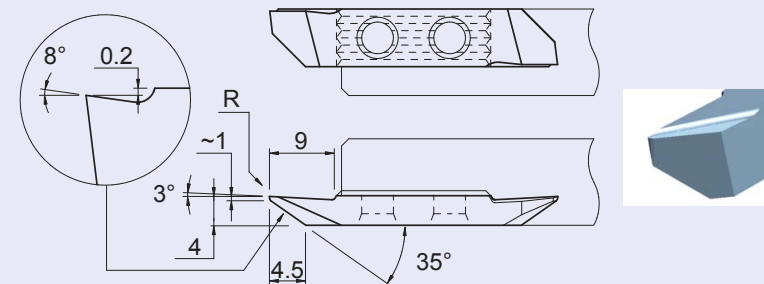
Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

■ = Standard

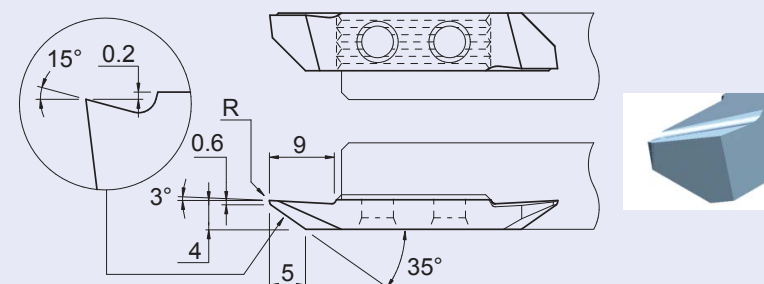
□ = Sur demande / Auf Anfrage / On request



tourneur arrière
rückwärts drehen
back turning



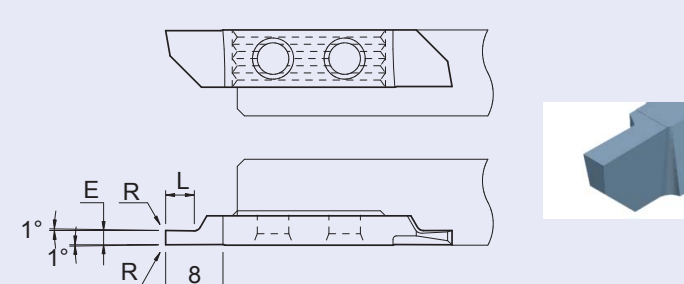
R	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
0	763vx-8°	■	■	■	■	■	■
0.08	763vx-8°-R08	■	■	■	■	■	■



R	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
0	763vx-15°	■	■	■			
0.08	763vx-15°-R08	■	■	■			



foncer tourner
einstechen und drehen
grooving and turning



E	L	R	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
0.5	1.5	0	764-0.5	■	■	■	■	■	■
0.75	2	0	764-0.75	■	■	■			
0.8	2	0	764-0.8	■	■	■			
0.95	3	0	764-0.95	■	■	■			
1.0	2.5	0	764-1.0	■	■	■	■	■	■
1.0	2.5	0.08	764-1.0-R08	■	■	■			
1.2	3	0	764-1.2	■	■	■	□	■	■
1.5	3	0	764-1.5	■	■	■	□	■	■
1.5	3	0.08	764-1.5-R08	■	■	■			
1.5	3	0.2	764-1.5-R20	■	■	■			
1.8	4	0	764-1.8	■	■	■			
2.0	4	0	764-2.0	■	■	■	■	■	■
2.0	4	0.08	764-2.0-R08	■	■	■			
2.0	4	0.2	764-2.0-R20	■	■	■			
2.5	6	0	764-2.5	■	■	■	□	■	■
3.0	6	0	764-3.0	■	■	■			
3.0	6	0.08	764-3.0-R08	■	■	■			
3.0	6	0.2	764-3.0-R20	■	■	■			
4.0	8	0	764-4.0	■	■	■			

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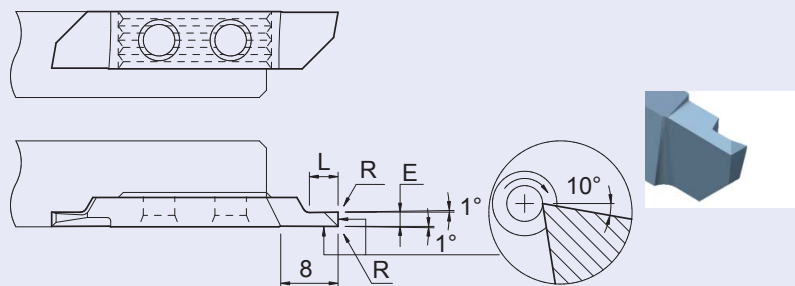
Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

■ = Standard

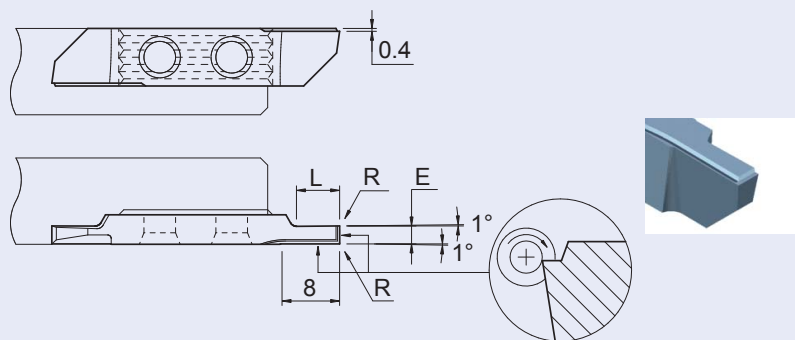
□ = Sur demande / Auf Anfrage / On request



foncer tourner
einstechen und drehen
grooving and turning



E	L	R	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
1.0	2.5	0	754x-1.0	■	■	■	□	□	■
1.0	2.5	0.08	754x-1.0-R08	■	■	■			
1.2	3	0	754x-1.2	■	■	■			
1.5	3	0	754x-1.5	■	■	■	□	□	■
1.5	3	0.08	754x-1.5-R08	■	■	■			
1.5	3	0.2	754x-1.5-R20	■	■	■			
1.8	4	0	754x-1.8	■	■	■			
2.0	4	0	754x-2.0	■	■	■	□	□	■
2.0	4	0.08	754x-2.0-R08	■	■	■			
2.0	4	0.2	754x-2.0-R20	■	■	■			
2.5	6	0	754x-2.5	■	■	■	□	□	■
2.5	6	0.2	754x-2.5-R20	■	■	■			
3.0	6	0	754x-3.0	■	■	■			
3.0	6	0.08	754x-3.0-R08	■	■	■			
3.0	6	0.2	754x-3.0-R20	■	■	■			
4.0	8	0	754x-4.0	■	■	■			
4.0	8	0.2	754x-4.0-R20	■	■	■			



E	L	R	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
1.0	2	0	754vs-1.0	■	■	■			
1.2	2.5	0	754vs-1.2	■	■	■			
1.5	3	0	754vs-1.5	■	■	■			
2.0	4	0	754vs-2.0	■	■	■			
2.5	6	0	754vs-2.5	■	■	■			
3.0	6	0	754vs-3.0	■	■	■			

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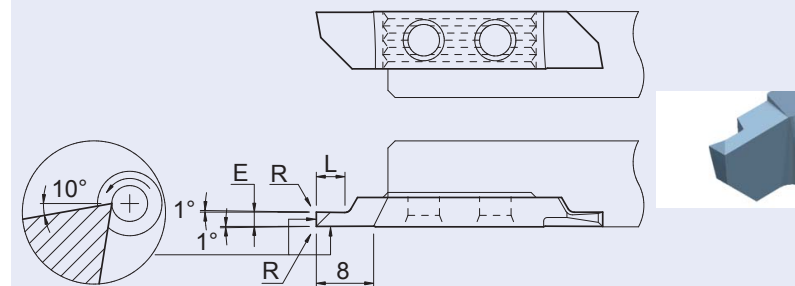
Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

■ = Standard

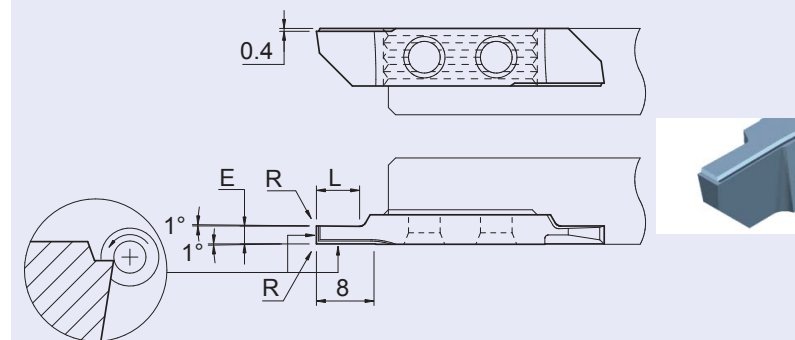
□ = Sur demande / Auf Anfrage / On request



foncer tourner
einstechen und drehen
grooving and turning



E	L	R	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
1.0	2.5	0	764x-1.0	■	■	■	□	□	■
1.0	2.5	0.08	764x-1.0-R08	■	■	■			
1.2	3	0	764x-1.2	■	■	■			
1.5	3	0	764x-1.5	■	■	■	■	■	■
1.5	3	0.08	764x-1.5-R08	■	■	■			
1.5	3	0.2	764x-1.5-R20	■	■	■	■	■	■
1.8	4	0	764x-1.8	■	■	■			
2.0	4	0	764x-2.0	■	■	■	□	□	■
2.0	4	0.08	764x-2.0-R08	■	■	■			
2.0	4	0.2	764x-2.0-R20	■	■	■	□	□	■
2.5	6	0	764x-2.5	■	■	■	□	□	■
2.5	6	0.2	764x-2.5-R20	■	■	■			
3.0	6	0	764x-3.0	■	■	■			
3.0	6	0.08	764x-3.0-R08	■	■	■			
3.0	6	0.2	764x-3.0-R20	■	■	■			
4.0	8	0	764x-4.0	■	■	■			
4.0	8	0.2	764x-4.0-R20	■	■	■			



E	L	R	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
1.0	2	0	764vs-1.0	■	■	■			
1.2	2.5	0	764vs-1.2	■	■	■			
1.5	3	0	764vs-1.5	■	■	■			
2.0	4	0	764vs-2.0	■	■	■			
2.5	6	0	764vs-2.5	■	■	■			
3.0	6	0	764vs-3.0	■	■	■			

7XX-XX-B



Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

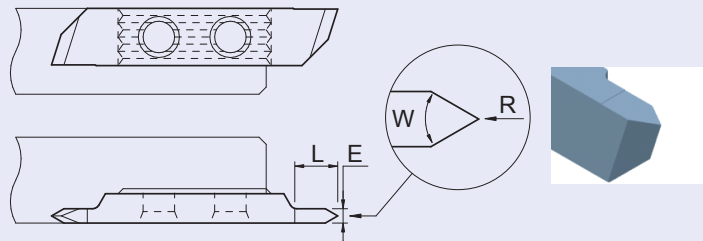
■ = Standard

□ = Sur demande / Auf Anfrage / On request



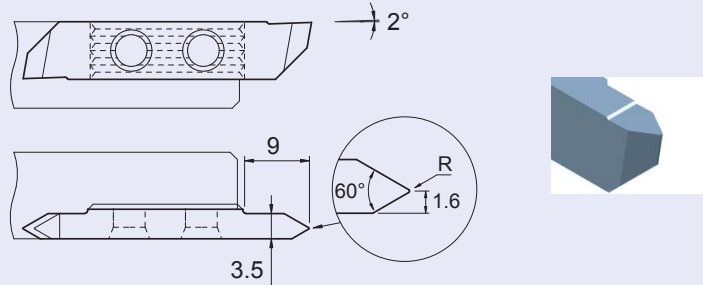
fileter
Gewinde drehen
threading

partial profile



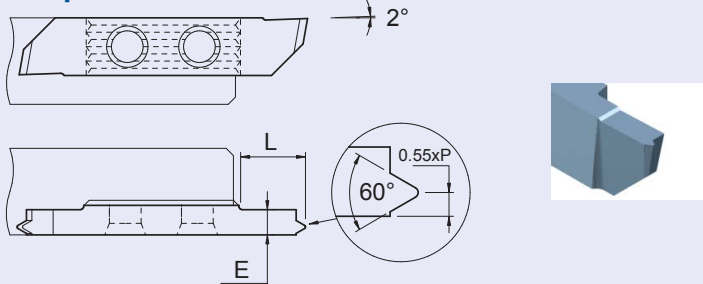
W	E	L	R	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
60°	2.0	6	0	756-60-2	■	■	■			
60°	2.0	6	0.02	756-60-2-R02	■	■	■	□	□	■
60°	3.0	8	0	756-60-3	■	■	■			
60°	3.0	8	0.02	756-60-3-R02	■	■	■	□	□	■
55°	2.0	6	0	756-55-2	■	■	■			
55°	3.0	8	0	756-55-3	■	■	■			

partial profile



Pas Steigung Pitch	R	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
P								
0.50-1.50	0.06	756-AG60°	■	■	■			
1.75-3.00	0.2	756-G60°	■	■	■			

full profile



ISO metric

Pas Steigung Pitch	E	L	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
P									
0.80	2.5	8	756-M-0.80	■	■	■			
1.00	2.5	8	756-M-1.00	■	■	■			
1.25	2.5	8	756-M-1.25	■	■	■			
1.50	3.5	9	756-M-1.50	■	■	■			
1.75	3.5	9	756-M-1.75	■	■	■			
2.00	3.5	9	756-M-2.00	■	■	■			

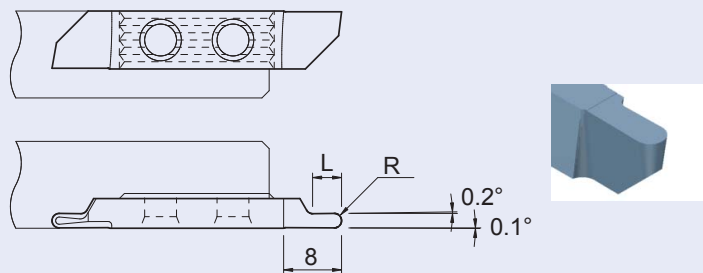
Pour de plus petits pas,
voir série 736 à la page 1.34

Für kleinere Steigung,
siehe Serie 736 auf Seite 1.34

For smaller pitch,
see series 736 on page 1.34



plaque à rayon
Radius-Wendeplatte
insert with radius



R	L	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
0.5	2.5	757-R0.5	■	■	■			
1.0	4	757-R1.0	■	■	■			
1.5	6	757-R1.5	■	■	■			
2.0	8	757-R2.0	■	■	■			

7XX-XX-B



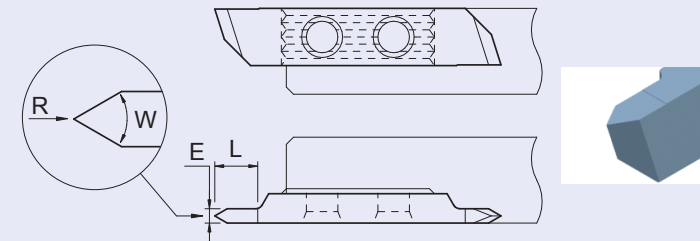
Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

■ = Standard
□ = Sur demande / Auf Anfrage / On request



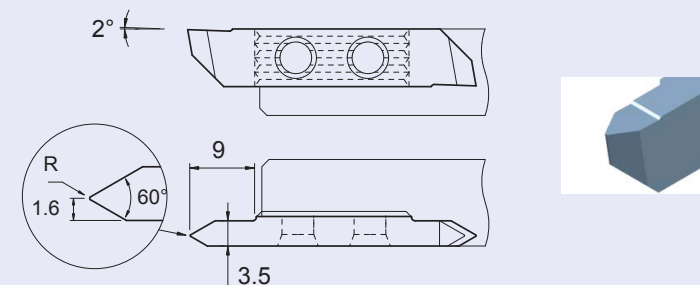
fileter
Gewinde drehen
threading

partial profile



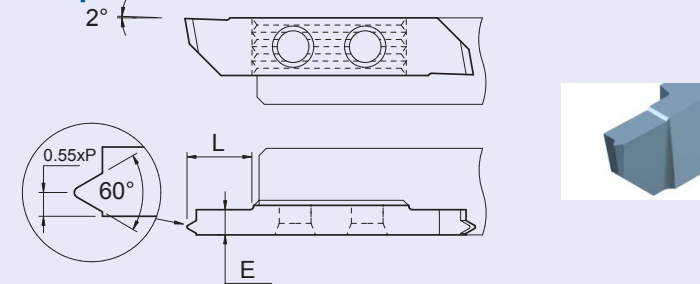
W	E	L	R	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
60°	2.0	6	0	766-60-2	■	■	■			
60°	2.0	6	0.02	766-60-2-R02	■	■	■	□	□	■
60°	3.0	8	0	766-60-3	■	■	■			
60°	3.0	8	0.02	766-60-3-R02	■	■	■	□	□	■
55°	2.0	6	0	766-55-2	■	■	■			
55°	3.0	8	0	766-55-3	■	■	■			

partial profile



Pas Steigung Pitch	R	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
P								
0.50-1.50	0.06	766-AG60°	■	■	■			
1.75-3.00	0.2	766-G60°	■	■	■			

full profile



ISO metric

Pas Steigung Pitch	E	L	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
P									
0.80	2.5	8	766-M-0.80	■	■	■			
1.00	2.5	8	766-M-1.00	■	■	■			
1.25	2.5	8	766-M-1.25	■	■	■			
1.50	3.5	9	766-M-1.50	■	■	■			
1.75	3.5	9	766-M-1.75	■	■	■			
2.00	3.5	9	766-M-2.00	■	■	■			

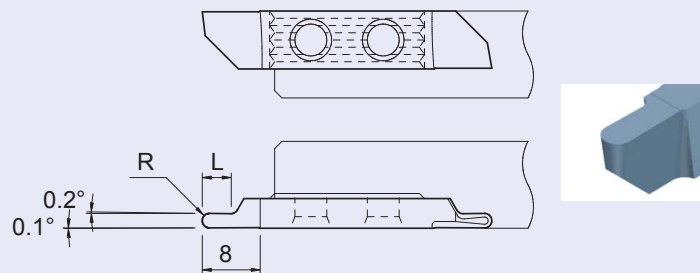
Pour de plus petits pas,
voir série 746 à la page 1.35

Für kleinere Steigung,
siehe Serie 746 auf Seite 1.35

For smaller pitch,
see series 746 on page 1.35



plaque à rayon
Radius-Wendeplatte
insert with radius



R	L	Art. N°	TIN	TIALN	N (μK20)	HTIN	HTIALN	HN (μK10)
0.5	2.5	767-R0.5	■	■	■			
1.0	4	767-R1.0	■	■	■			
1.5	6	767-R1.5	■	■	■			
2.0	8	767-R2.0	■	■	■			

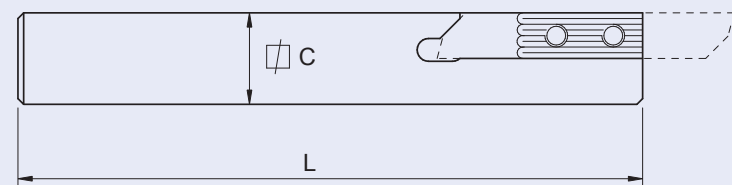
7XX-XX-B



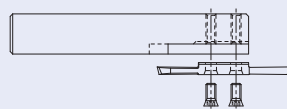
Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

■ = Standard
□ = Sur demande / Auf Anfrage / On request

porte-outils
Halter
holders



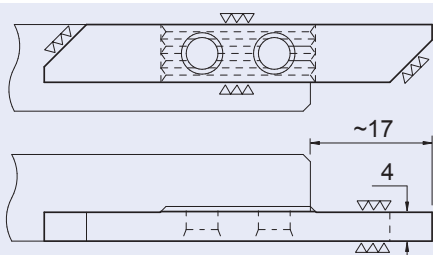
serrage standard (A)
Standard Spannsystem (A)
standard clamping system (A)



C	L	Art. N°
12 X 12	130	770-12
12 X 12	90	770-12-90
13 X 13	130	770-13
14 X 14	130	770-14
16 X 16	130	770-16
16 X 16	75	770-16-75
20 X 20	120	770-20
25 X 25	140	770-25



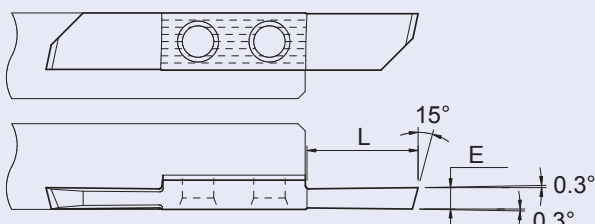
plaquette ébauche
VHM-Rohling
blank insert



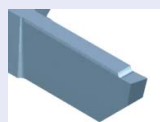
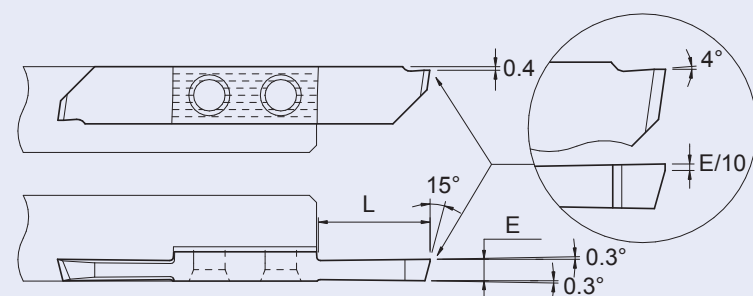
Art. N°	N (μK20)
771-E	■



tronçonnage
abstechen
parting off



E	L	Art. N°	TIN TIALN N (μK20)
2.0	16	771-2.0	■ ■ ■
2.5	16	771-2.5	■ ■ ■
3.0	16	771-3.0	■ ■ ■
3.5	16	771-3.5	■ ■ ■



E	L	Art. N°	TIN TIALN N (μK20)
2.5	16	771xf-2.5	■ ■ ■
3.0	16	771xf-3.0	■ ■ ■
3.5	16	771xf-3.5	■ ■ ■

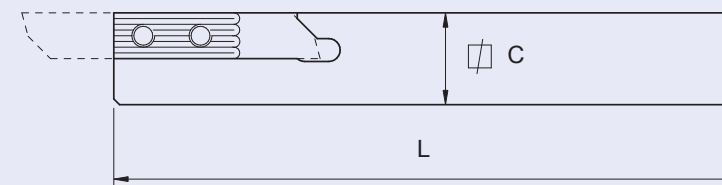
7XX-XX-B



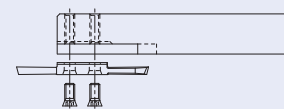
Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

■ = Standard
□ = Sur demande / Auf Anfrage / On request

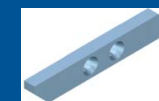
porte-outils
Halter
holders



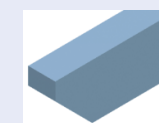
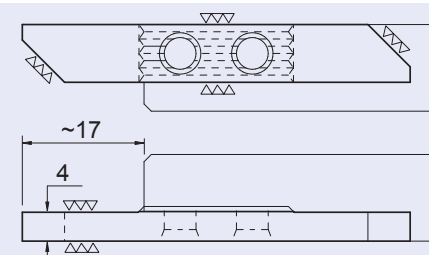
serrage standard (A)
Standard Spannsystem (A)
standard clamping system (A)



C	L	Art. N°
12 X 12	130	780-12
12 X 12	90	780-12-90
13 X 13	130	780-13
14 X 14	130	780-14
16 X 16	130	780-16
16 X 16	75	780-16-75
20 X 20	120	780-20
25 X 25	140	780-25



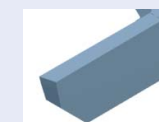
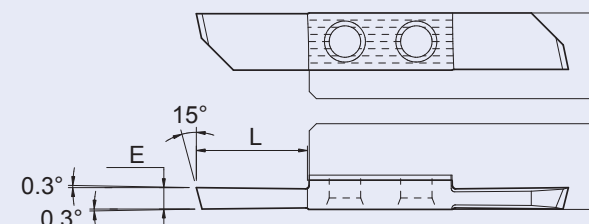
plaquette ébauche
VHM-Rohling
blank insert



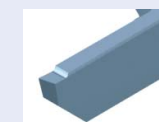
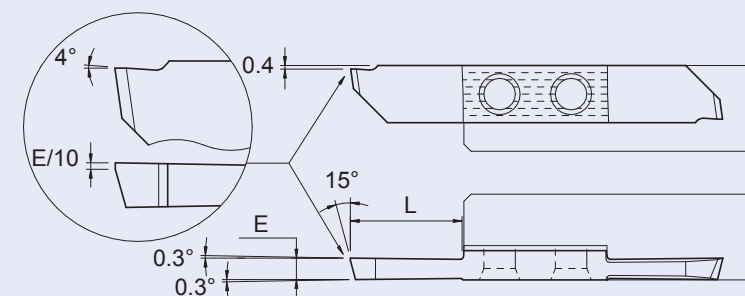
Art. N°	N (μK20)
781-E	■



tronçonnage
abstechen
parting off



E	L	Art. N°	TIN TIALN N (μK20)
2.0	16	781-2.0	■ ■ ■
2.5	16	781-2.5	■ ■ ■
3.0	16	781-3.0	■ ■ ■
3.5	16	781-3.5	■ ■ ■



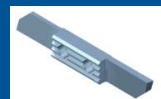
E	L	Art. N°	TIN TIALN N (μK20)
2.5	16	781xf-2.5	■ ■ ■
3.0	16	781xf-3.0	■ ■ ■
3.5	16	781xf-3.5	■ ■ ■

7XX-XX-B



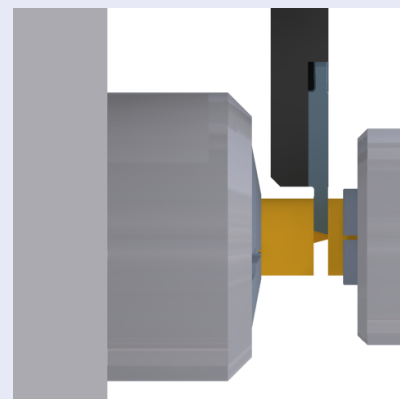
Sur demande pour serrage type B, voir page 1.2
Wahlweise für B-Spannsystem, siehe Seite 1.2
On request for B clamping system, see page 1.2

■ = Standard
□ = Sur demande / Auf Anfrage / On request



coupe à gauche déportée
versetztes Linksschneiden
left cut off line

broche principale
Hauptspindel
Mainspindle

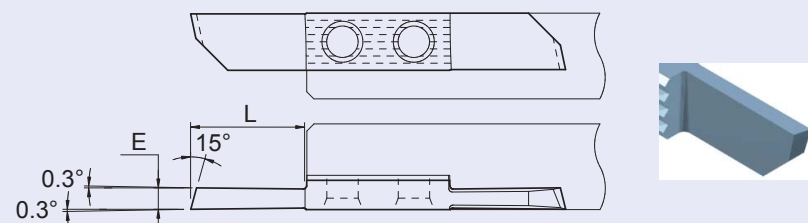


contre-broche
Gegenspindel
subspindle

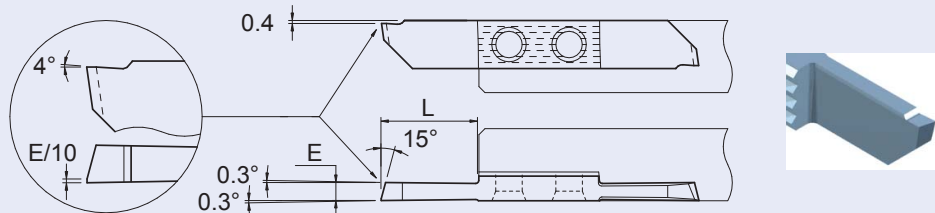
Utiliser des porte-outils série 780.
(voir page 1.59)

Halter Serie 780 verwenden.
(siehe Seite 1.59)

Use 780 series holders.
(see page 1.59)

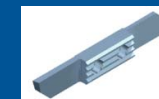


E	L	Art. N°	TIN	TIALN	N (μK20)
2.0	16	781L-2.0	■	■	■
2.5	16	781L-2.5	■	■	■
3.0	16	781L-3.0	■	■	■
3.5	16	781L-3.5	■	■	■



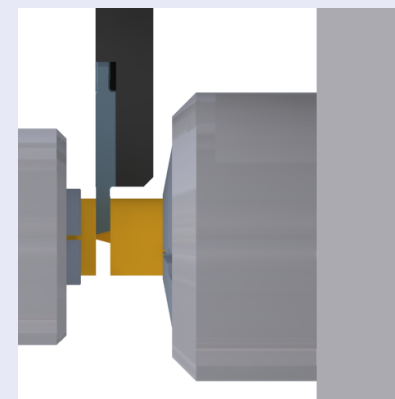
E	L	Art. N°	TIN	TIALN	N (μK20)
2.5	16	781Lxf-2.5	■	■	■
3.0	16	781Lxf-3.0	■	■	■
3.5	16	781Lxf-3.5	■	■	■

■ = Standard
□ = Sur demande / Auf Anfrage / On request



coupe à droite déportée
versetztes Rechtsschneiden
right cut off line

contre-broche
Gegenspindel
subspindle

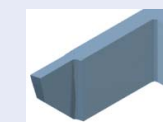
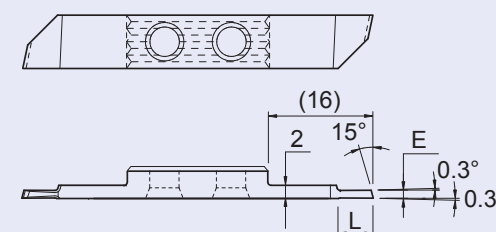


broche principale
Hauptspindel
Mainspindle

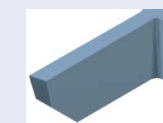
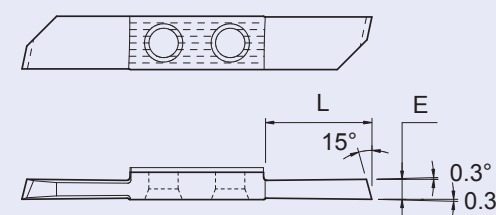
Utiliser des porte-outils série 770.
(voir page 1.58)

Halter Serie 770 verwenden.
(siehe Seite 1.58)

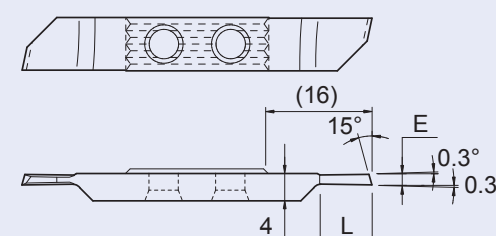
Use 770 series holders
(see page 1.58)



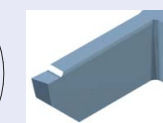
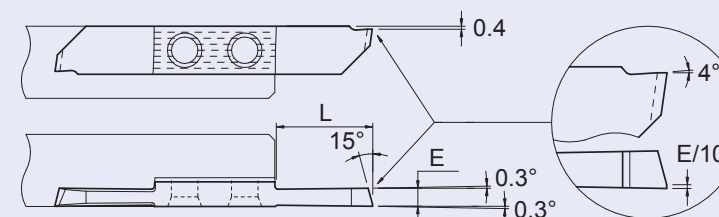
E	L	Art. N°	TIN	TIALN	N (μK20)
1.0	5	771R-1.0	■	■	■
1.2	5	771R-1.2	■	■	■
1.5	8.5	771R-1.5	■	■	■



E	L	Art. N°	TIN	TIALN	N (μK20)
2.0	16	771R-2.0	■	■	■
2.5	16	771R-2.5	■	■	■
3.0	16	771R-3.0	■	■	■
3.5	16	771R-3.5	■	■	■



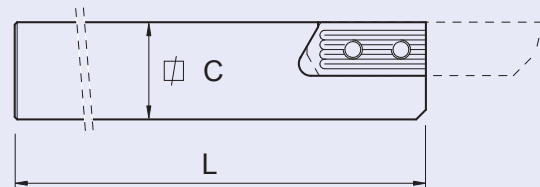
E	L	Art. N°	TIN	TIALN	N (μK20)
1.2	5	771RD-1.2	■	■	■
1.5	7.5	771RD-1.5	■	■	■
2.0	10	771RD-2.0	■	■	■



E	L	Art. N°	TIN	TIALN	N (μK20)
2.5	16	771Rxf-2.5	■	■	■
3.0	16	771Rxf-3.0	■	■	■
3.5	16	771Rxf-3.5	■	■	■

■ = Standard
□ = Sur demande / Auf Anfrage / On request

porte-outils
Halter
holders

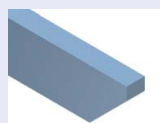
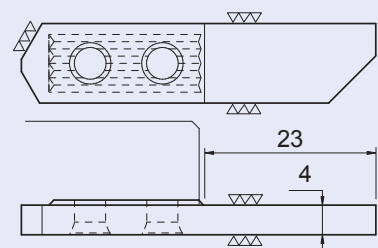


serrage standard (A)
Standard Spannsystem (A)
standard clamping system (A)

C	L	Art. N°
16 X 16	130	7050-16
16 X 16	75	7050-16-75
20 X 20	120	7050-20
25 X 25	140	7050-25



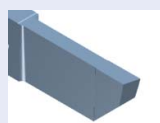
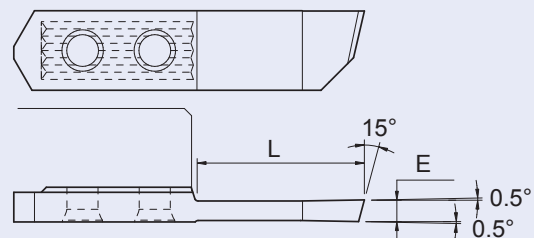
plaquette ébauche
VHM-Rohling
blank insert



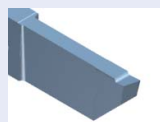
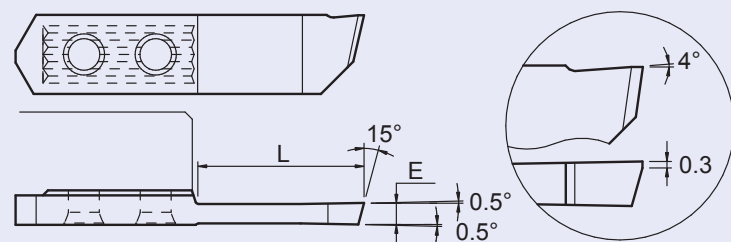
Art. N°	N (μK20)
7051-E	■



tronçonnage
abstechen
parting off



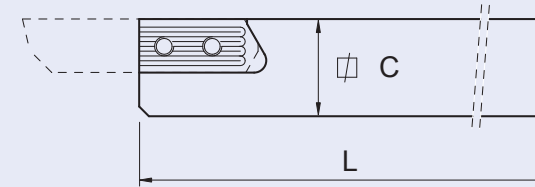
E	L	Art. N°	TIN	TIALN	N (μK20)
3.0	22	7051-3.0	■	■	■



E	L	Art. N°	TIN	TIALN	N (μK20)
3.0	22	7051xf-3.0	■	■	■

■ = Standard
□ = Sur demande / Auf Anfrage / On request

porte-outils
Halter
holders

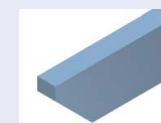
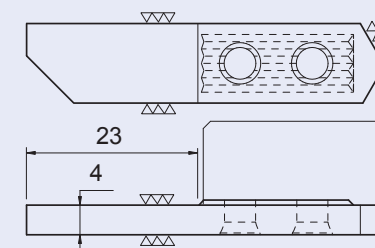


serrage standard (A)
Standard Spannsystem (A)
standard clamping system (A)

C	L	Art. N°
16 X 16	130	7060-16
16 X 16	75	7060-16-75
20 X 20	120	7060-20
25 X 25	140	7060-25



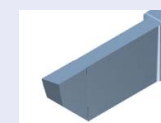
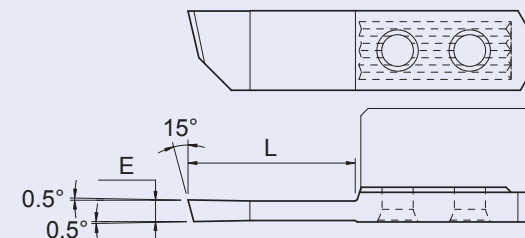
plaquette ébauche
VHM-Rohling
blank insert



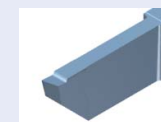
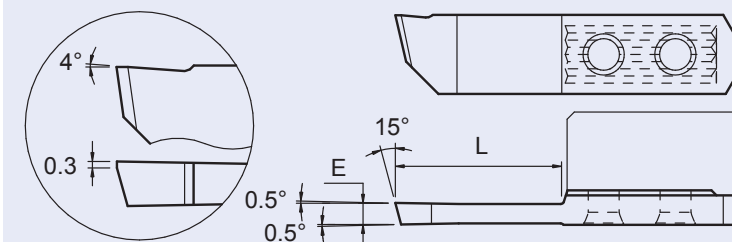
Art. N°	N (μK20)
7061-E	■



tronçonnage
abstechen
parting off

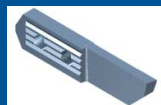


E	L	Art. N°	TIN	TIALN	N (μK20)
2.5	22	7061-2.5	■	■	■
3.0	22	7061-3.0	■	■	■
3.5	22	7061-3.5	■	■	■



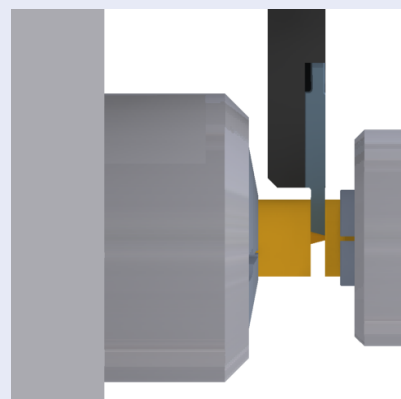
E	L	Art. N°	TIN	TIALN	N (μK20)
3.0	22	7061xf-3.0	■	■	■

■ = Standard
□ = Sur demande / Auf Anfrage / On request



coupe à gauche déportée
versetztes Linksschneiden
left cut off line

broche principale
Hauptspindel
main spindle

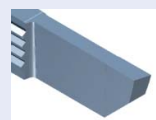
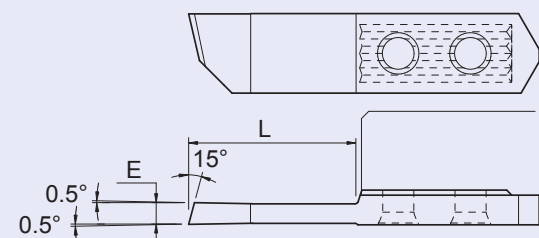


contre-broche
Gegenspindel
subspindle

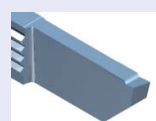
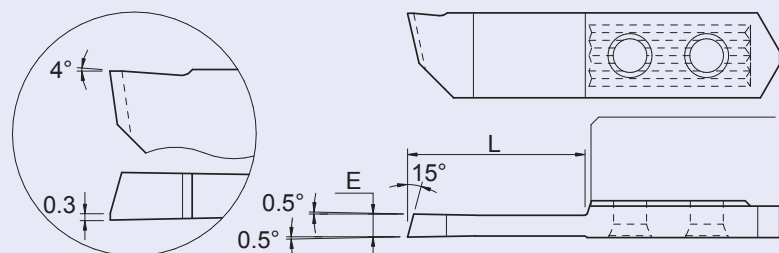
Utiliser des porte-outils série 7060.
(voir page 1.63)

Halter Serie 7060 verwenden.
(siehe Seite 1.63)

Use 7060 series holders.
(see page 1.63)



E	L	Art. N°	TIN	TIALN	N (µK20)
3.0	22	7061L-3.0	■	■	■



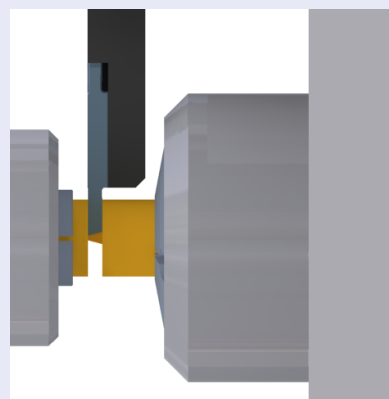
E	L	Art. N°	TIN	TIALN	N (µK20)
3.0	22	7061Lxf-3.0	■	■	■

■ = Standard
□ = Sur demande / Auf Anfrage / On request



coupe à droite déportée
versetztes Rechtsschneiden
right cut off line

contre-broche
Gegenspindel
subspindle

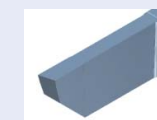
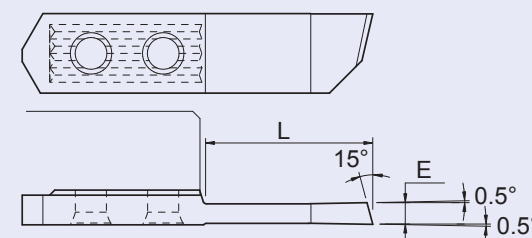


broche principale
Hauptspindel
main spindle

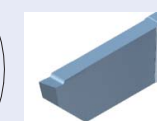
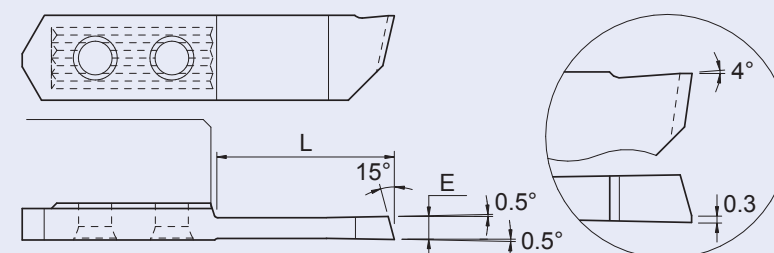
Utiliser des porte-outils série 7050.
(voir page 1.62)

Halter Serie 7050 verwenden.
(siehe Seite 1.62)

Use 7050 series holders.
(see page 1.62)



E	L	Art. N°	TIN	TIALN	N (µK20)
2.5	22	7051R-2.5	■	■	■
3.0	22	7051R-3.0	■	■	■
3.5	22	7051R-3.5	■	■	■

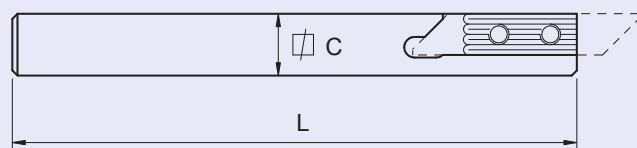


E	L	Art. N°	TIN	TIALN	N (µK20)
3.0	22	7051Rxf-3.0	■	■	■

■ = Standard
□ = Sur demande / Auf Anfrage / On request

burin série 700 avec plaquette large
Drehwerkzeug Serie 700 mit breiter Wendeplatte
turning tools series 700 with large insert

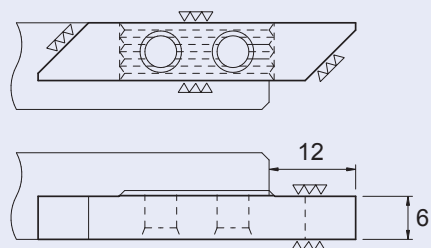
porte-outils
Halter
holders



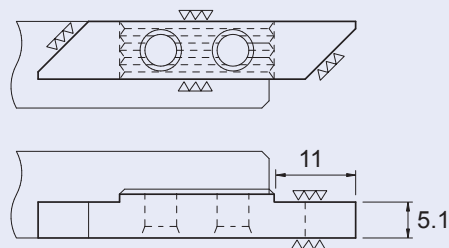
C	L	Art. N°
12 X 12	130	W750-12
16 X 16	130	W750-16
20 X 20	120	W750-20



plaquette ébauche
VHM-Rohling
blank insert



Art. N°	N (μK20)
W751-E6	■

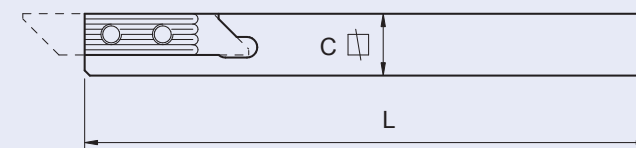


Art. N°	N (μK20)
W751-E5	■

■ = Standard
□ = Sur demande / Auf Anfrage / On request

burin série 700 avec plaquette large
Drehwerkzeug Serie 700 mit breiter Wendeplatte
turning tools series 700 with large insert

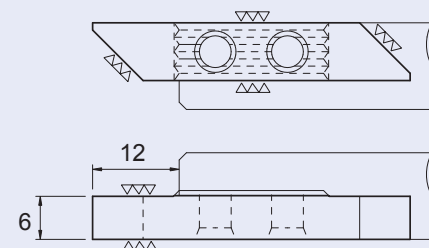
porte-outils
Halter
holders



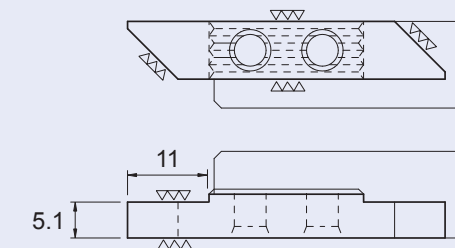
C	L	Art. N°
12 X 12	130	W760-12
16 X 16	130	W760-16
20 X 20	120	W760-20



plaquette ébauche
VHM-Rohling
blank insert



Art. N°	N (μK20)
W761-E6	■

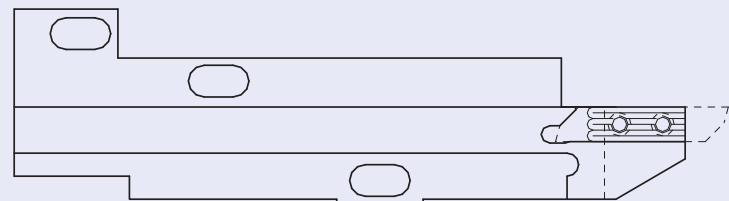


Art. N°	N (μK20)
W761-E5	■

■ = Standard
□ = Sur demande / Auf Anfrage / On request

Porte-outils spéciaux pour machine TORNOS DECO 7 / 10 mm
Sonderhalter für TORNOS DECO 7 / 10 mm Maschine
Special holders für TORNOS DECO 7 / 10 mm machine

L coupe à gauche
Linksschneiden
left hand cut



TORNOS N° 305 078

Art. N°
730-DECO10

A utiliser sur
porte-outil TORNOS
court à gauche

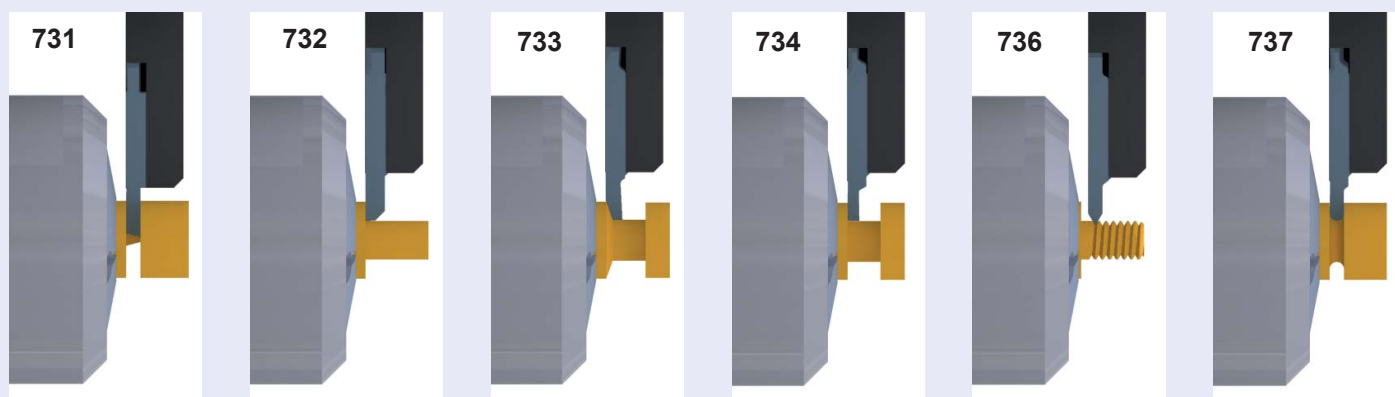
Auf TORNOS linker
Werkzeug-Halter kurz
verwenden

To be used on
TORNOS short
tool holder left

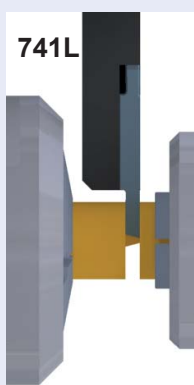
utiliser des plaquettes série 730
Wendeplatten Serie 730 verwenden
use inserts series 730

voir page :
siehe Seite : 1.24 - 1.34
see page :

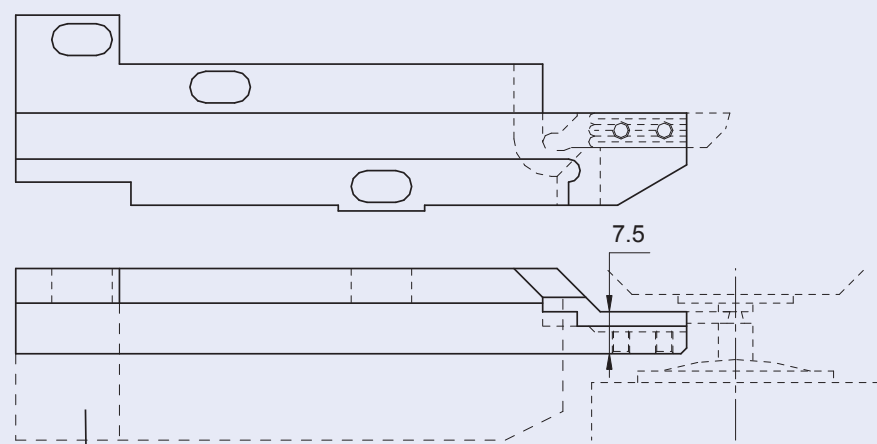
serrage standard (A) uniquement
nur Standard Spannsystem (A)
standard clamping system (A) only



coupe à gauche déportée
versetztes Linksschneiden
left cut off line



voir page :
siehe Seite : 1.28
see page :



TORNOS N° 305 078

Art. N°
740L-DECO10

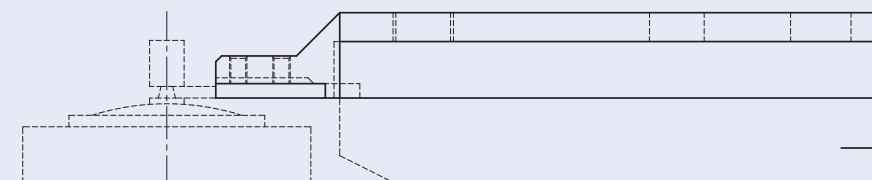
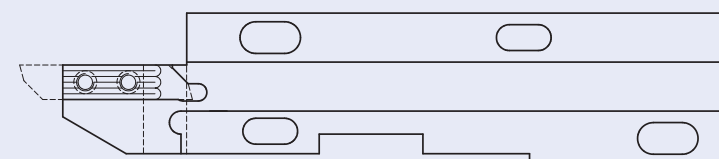
A utiliser sur
porte-outil TORNOS
court à gauche

Auf TORNOS linker
Werkzeug-Halter kurz
verwenden

To be used on
TORNOS short
tool holder left

Porte-outils spéciaux pour machine TORNOS DECO 7 / 10 mm
Sonderhalter für TORNOS DECO 7 / 10 mm Maschine
Special holders für TORNOS DECO 7 / 10 mm machine

R coupe à droite
Rechtsschneiden
right hand cut



TORNOS N° 305 008

Art. N°
740-DECO10

A utiliser sur
porte-outil TORNOS
court à droite

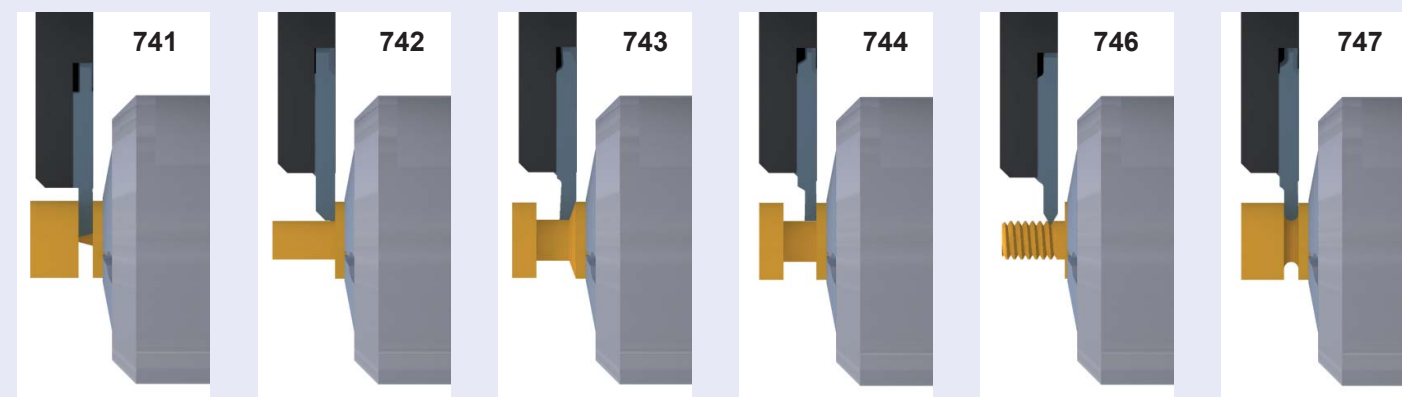
Auf TORNOS rechter
Werkzeug-Halter kurz
verwenden

To be used on
TORNOS short tool
holder right

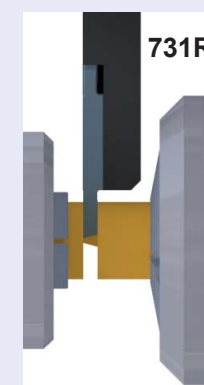
utiliser des plaquettes série 740
Wendeplatten Serie 740 verwenden
use inserts series 740

voir page :
siehe Seite : 1.25 - 1.35
see page :

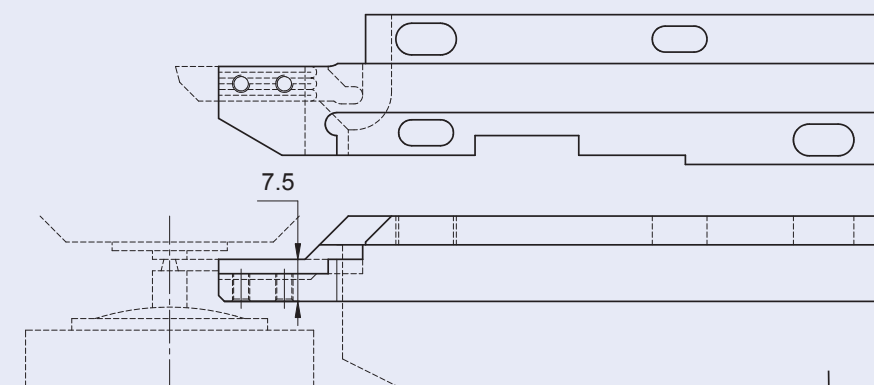
serrage standard (A) uniquement
nur Standard Spannsystem (A)
standard clamping system (A) only



coupe à droite déportée
versetztes Rechtsschneiden
right cut off line



voir page :
siehe Seite : 1.29
see page :



TORNOS N° 305 008

Art. N°
730R-DECO10

A utiliser sur
porte-outil TORNOS
court à droite

Auf TORNOS rechter
Werkzeug-Halter kurz
verwenden

To be used on
TORNOS short
tool holder right

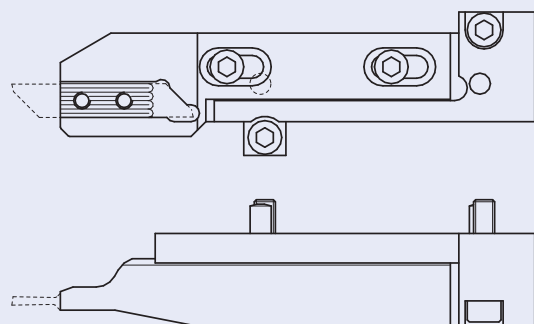
L

Porte-outils spéciaux pour machine TORNOS DECO 7 / 10 mm
Sonderhalter für TORNOS DECO 7 / 10 mm Maschine
Special holders für TORNOS DECO 7 / 10 mm machine

L

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

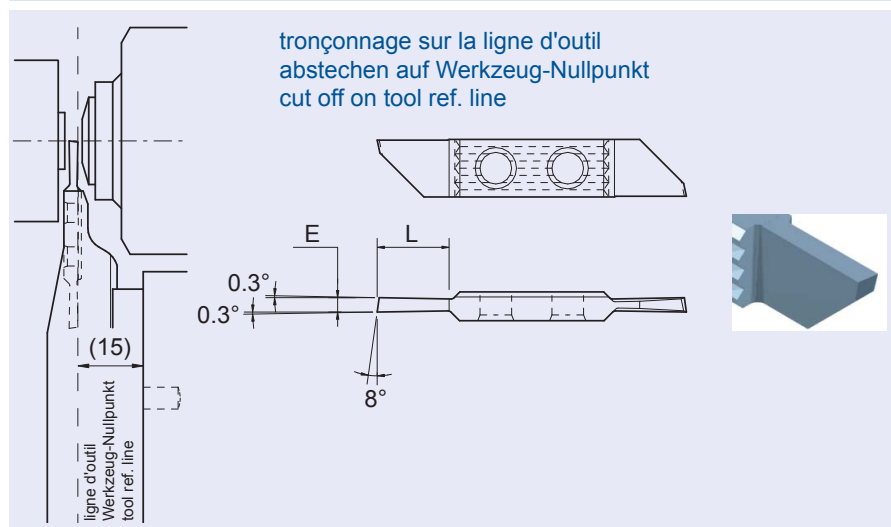
porte-outils
Halter
holders



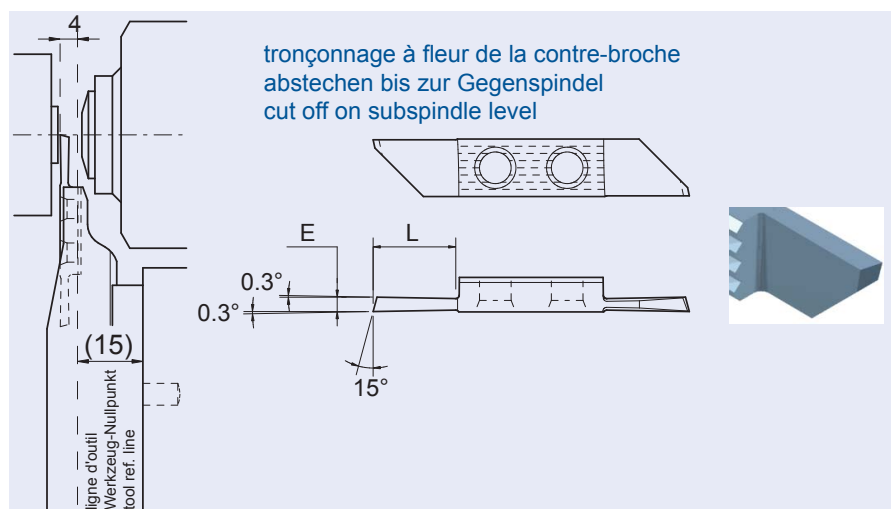
avec vis de réglage
mit Einstellungs-Schraube
with adjustment screw

Art. N°
760L-DECO10

tronçonnage
abstechen
parting off



E	L	Art. N°	TIN	TIALN	N (µK20)	HTIN	HTIALN	HN (µK10)
1.0	5	761LD-1.0-8°	■	■	■			
1.2	5	761LD-1.2-8°	■	■	■			
1.5	8	761LD-1.5-8°	■	■	■			
1.6	8	761LD-1.6-8°	■	■	■			
1.8	10	761LD-1.8-8°	■	■	■			
2.0	10	761LD-2.0-8°	■	■	■			



E	L	Art. N°	TIN	TIALN	N (µK20)	HTIN	HTIALN	HN (µK10)
1.0	5.5	761Ls-1.0	■	■	■			
1.5	8	761Ls-1.5	■	■	■			
2.0	11.5	761Ls-2.0	■	■	■			
2.2	11.5	761Ls-2.2	■	■	■			
2.5	11.5	761Ls-2.5	■	■	■			
3.0	11.5	761Ls-3.0	■	■	■			

■ = Standard
□ = Sur demande / Auf Anfrage / On request

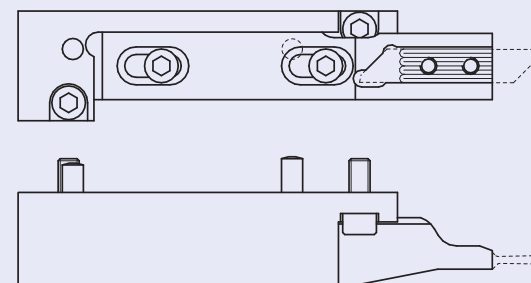
R

Porte-outils spéciaux pour machine TORNOS DECO 7 / 10 mm
Sonderhalter für TORNOS DECO 7 / 10 mm Maschine
Special holders für TORNOS DECO 7 / 10 mm machine

R

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

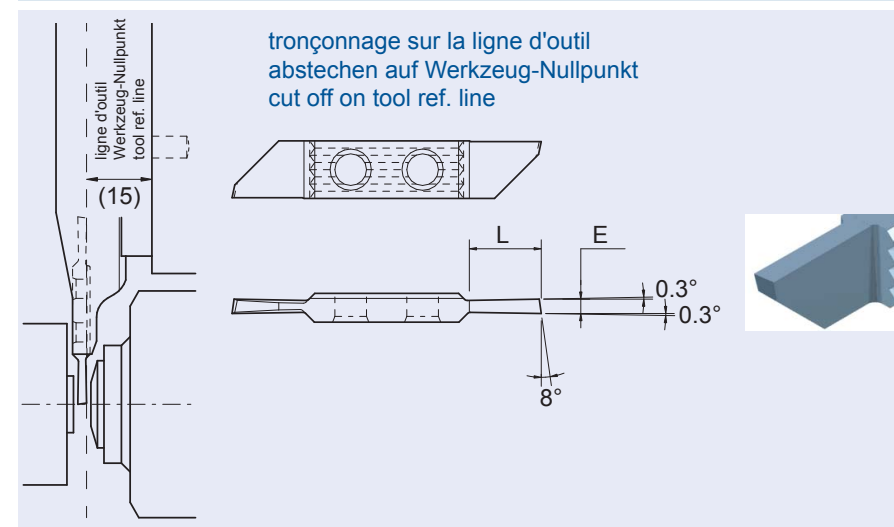
porte-outils
Halter
holders



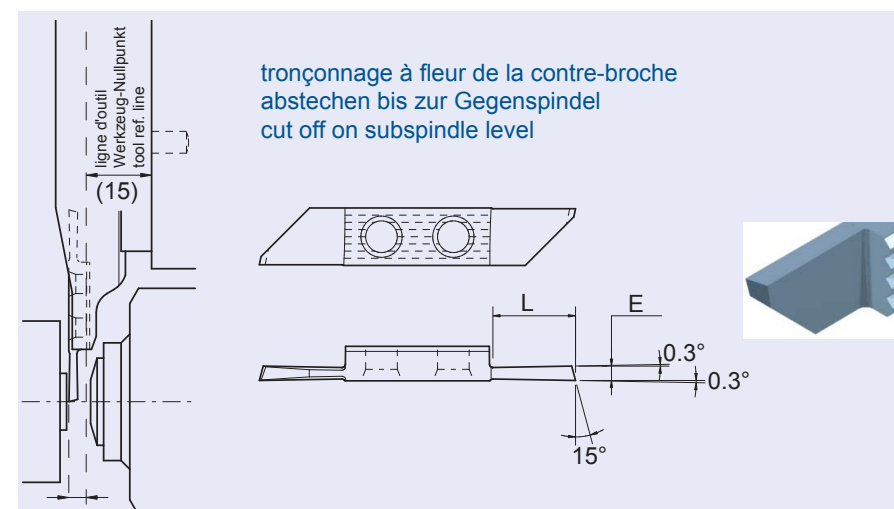
avec vis de réglage
mit Einstellungs-Schraube
with adjustment screw

Art. N°
750R-DECO10

tronçonnage
abstechen
parting off



E	L	Art. N°	TIN	TIALN	N (µK20)	HTIN	HTIALN	HN (µK10)
1.0	5	751RD-1.0-8°	■	■	■			
1.2	5	751RD-1.2-8°	■	■	■			
1.5	8	751RD-1.5-8°	■	■	■	■	■	■
1.6	8	751RD-1.6-8°	■	■	■			
1.8	10	751RD-1.8-8°	■	■	■			
2.0	10	751RD-2.0-8°	■	■	■			
2.5	10	751RD-2.5-8°	■	■	■			



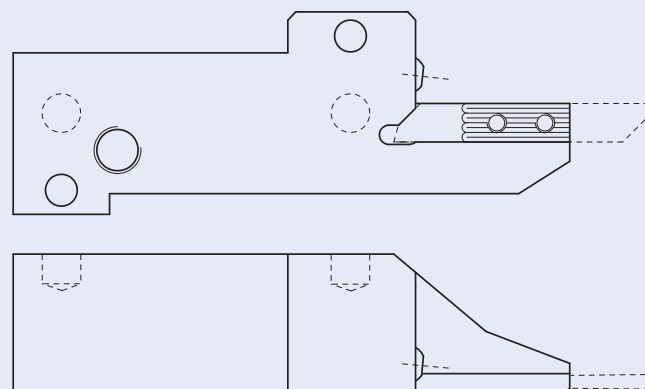
E	L	Art. N°	TIN	TIALN	N (µK20)	HTIN	HTIALN	HN (µK10)
1.0	5.5	751Rs-1.0	■	■	■			
1.5	8	751Rs-1.5	■	■	■			
2.0	11.5	751Rs-2.0	■	■	■	■	■	■
2.2	11.5	751Rs-2.2	■	■	■			
2.5	11.5	751Rs-2.5	■	■	■			
3.0	11.5	751Rs-3.0	■	■	■			

■ = Standard
□ = Sur demande / Auf Anfrage / On request

Porte-outils spéciaux pour machine TORNOS DECO 13 et DECO 20
 Sonderhalter für TORNOS DECO 13 und DECO 20 Maschinen
 Special holders für TORNOS DECO13 and DECO 20 machines

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

DECO 13



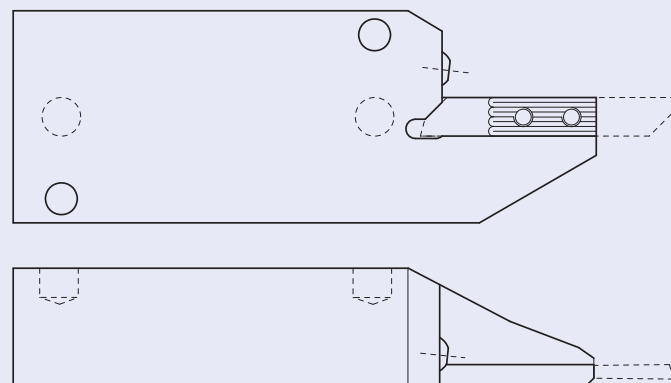
Arrosage intégré
 (raccordement externe G1/8)

Integrierte Kühlung
 (Externer Anschluss G 1/8)

Integrated cooling
 (External connection G1/8)

Art. N°
 770R-DECO13

DECO 20



Arrosage intégré

Integrierte Kühlung

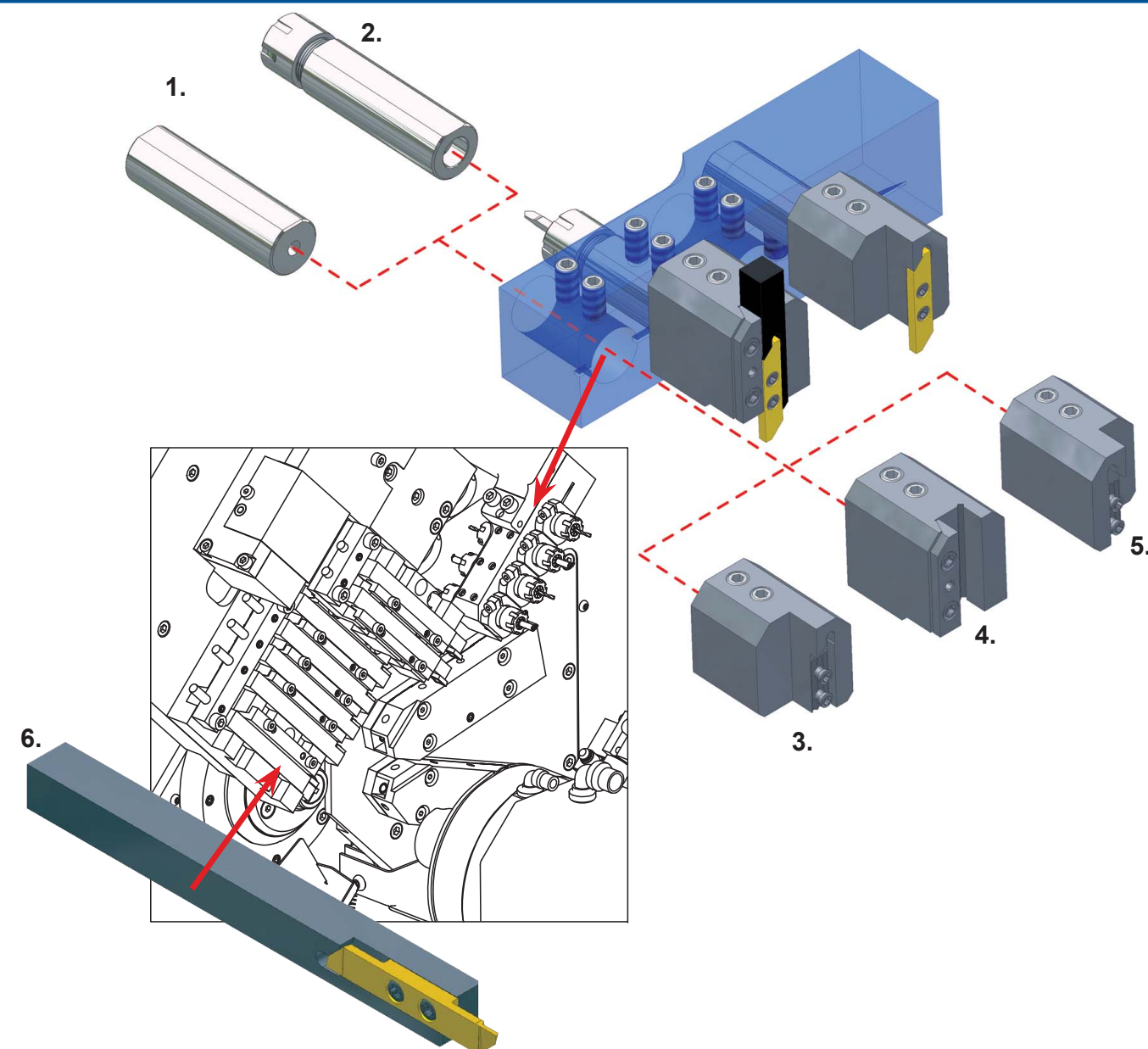
Integrated cooling

Art. N°
 770R-DECO20

Utiliser des plaquettes série 771R
 Wendepplatten Serie 771R verwenden
 use inserts series 771R

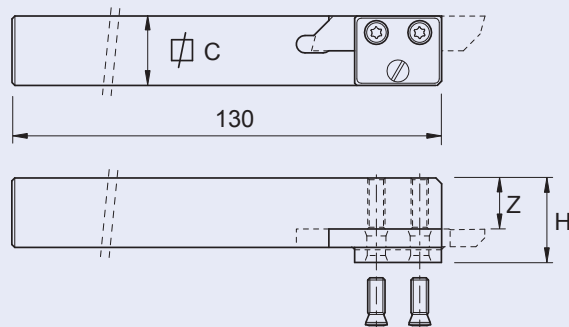
voir page :
 siehe Seite : 1.61
 see page :

Outils spéciaux pour machine TORNOS Micro 8
 Werkzeuge für TORNOS Micro 8
 Tools für TORNOS Micro 8



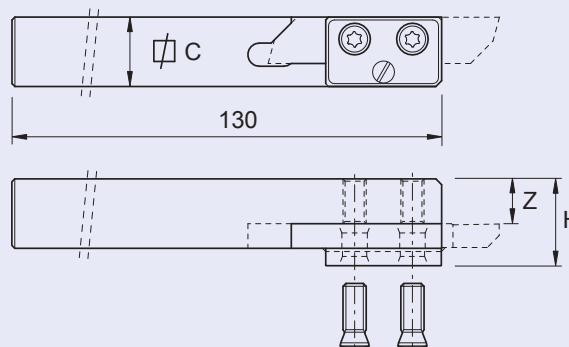
	Art. N°	
1.	D16-L55	cylindre de fixation standard cyl. Aufnahme fixturing rod
2.	D16-L50F-ER11	cylindre de fixation avec porte-pince ER11 cyl. Aufnahme mit Zangenhalter ER11 fixturing rod with ER11 collet holder
3.	S8-740	porte-outil R pour plaquettes série 740 voir pages 1.25-1.35 Halter für WSP Serie 740 siehe Seiten 1.25-1.35 Holder for inserts serie 740 see pages 1.25-1.35
4.	S8-0808	porte-outil pour outil 8 X 8 Halter für Werkzeug 8 X 8 Holder for 8 X 8 square tool
5.	S8-730	porte-outil L pour plaquettes série 730 voir pages 1.24 à 1.34 Halter für WSP Serie 730 siehe Seiten 1.24-1.34 Holder for inserts serie 730 see pages 1.24-1.34
6.	770-12	outil de tronçonnage série 770 voir page 1.61 Abstechwerkzeug Serie 770 siehe Seite 1.61 parting off tool serie 770 see page 1.61

Porte-outils spéciaux pour usinage déporté
Sonderhalter für versetzte Bearbeitung
Special holders for shifted machining



utiliser des plaquettes série 740
Wendeplatten Serie 740 verwenden
use inserts series 740

voir page :
siehe Seite : 1.25 - 1.35
see page :



utiliser des plaquettes série 760
Wendeplatten Serie 760 verwenden
use inserts series 760

voir page :
siehe Seite : 1.41 - 1.57
see page :

C	Z	H	Art. N°
12 X 12	9.5	14.5	740z-12
16 X 16	13.5	18.5	740z-16

C	Z	H	Art. N°
12 X 12	8	15	760z-12
16 X 16	12	19	760z-16

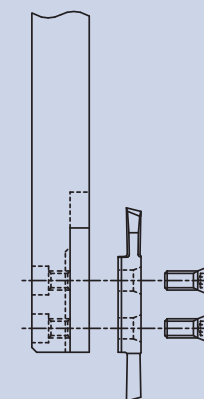
Vis et clés de rechange
Ersatzschrauben und Schlüssel
Spare screws and keys

	porte-outils Halter holders	serrage standard (A) Standard Spannsystem (A) standard clamping system (A)	serrage type B Spannsystem Typ B clamping system type B		
					
300	311	V-M2.5x6.5-T8	C-T8	-	-
	312 >>> 316	V-M2.5x7.8-T8	C-T8	-	-
	322 >>> 326	V-M2.5x7.8-T8	C-T8	-	-
	332 >>> 336	V-M2.5x7.8-T8	C-T8	-	-
	342 >>> 346	V-M2.5x7.8-T8	C-T8	-	-
710	710-6	V-M2.5x5.8-T8	C-T8	-	-
	710-7	V-M2.5x6.5-T8	C-T8	-	-
	710-8 >>> 710-12	V-M2.5x7.8-T8	C-T8	-	-
720	720-7	V-M2.5x6.5-T8	C-T8	-	-
	720-8 >>> 720-12	V-M2.5x7.8-T8	C-T8	-	-
730	730-7	V-M3x7-T8	C-T8	-	-
	730-8 >>> 730-16	V-M3x7-T8	C-T8	V-M2.5x7.8-T8	C-T8
	730-DECO10	V-M3x7-T8	C-T8	-	-
	730R-DECO10	V-M3x7-T8	C-T8	-	-
	730RC	V-M3x5.5-T8	C-T8	-	-
740	740-7 >>> 740-16	V-M3x7-T8	C-T8	V-M2.5x7.8-T8	C-T8
	740/730-D	V-M3x7-T8	C-T8	-	-
	740-C	V-M3x5.5-T8	C-T8	-	-
	740-DECO10	V-M3x7-T8	C-T8	-	-
	740L-DECO10	V-M3x7-T8	C-T8	-	-
	740-Z	V-M3x9-T8	C-T8	-	-
750	750-10	V-M4x9-T15	C-T15	-	-
	750-10-AB	V-M4x9-T15	C-T15	V-M3x10-BN21	C-6P-2.0
	750-12	V-M4x9-T15	C-T15	-	-
	750-12-AB	V-M4x9-T15	C-T15	V-M3x8-BN11	C-6P-2.5
	750-13	V-M4x9-T15	C-T15	V-M3x10-BN11	C-6P-2.5
	750-14	V-M4x9-T15	C-T15	V-M3x10-BN11	C-6P-2.5
	750-16	V-M4x9-T15	C-T15	V-M3x12-BN11	C-6P-2.5
	750-20	V-M4x9-T15	C-T15	V-M3x16-BN11	C-6P-2.5
	750RAS	V-M4x7.3-T15	C-T15	-	-
	750RC	V-M4x7.3-T15	C-T15	-	-
	750R-DECO10	V-M4x5.6-T15	C-T15	-	-
760	760-10	V-M4x9-T15	C-T15	-	-
	760-10-AB	V-M4x9-T15	C-T15	V-M3x10-BN21	C-6P-2.0
	760-12	V-M4x9-T15	C-T15	-	-
	760-12-AB	V-M4x9-T15	C-T15	V-M3x8-BN11	C-6P-2.5
	760-13	V-M4x9-T15	C-T15	V-M3x10-BN11	C-6P-2.5
	760-14	V-M4x9-T15	C-T15	V-M3x10-BN11	C-6P-2.5
	760-16	V-M4x9-T15	C-T15	V-M3x12-BN11	C-6P-2.5
	760-20	V-M4x9-T15	C-T15	V-M3x16-BN11	C-6P-2.5
	760/750-25	V-M4x9-T15	C-T15	-	-
	760/750-D	V-M4x9-T15	C-T15	-	-
	760LC	V-M4x7.3-T15	C-T15	-	-
	760L-DECO10	V-M4x5.6-T15	C-T15	-	-
	760-Z	V-M4x12-T15	C-T15	-	-
770	770-12 >>> 770-25	V-M4x9-T15	C-T15	-	-
	770R-DEC013	V-M4x7.3-T15	C-T15	-	-
	770R-DECO20	V-M4x7.3-T15	C-T15	-	-
780	780-12 >>> 780-25	V-M4x9-T15	C-T15	-	-
7050	7050-16 >>> 7050-25	V-M4x9-T15	C-T15	-	-
7060	7060-16 >>> 7060-25	V-M4x9-T15	C-T15	-	-
W	W750	V-M4x11-T15	C-T15	-	-
	W760	V-M4x11-T15	C-T15	-	-

serrage
standard (A)

Standard
Spannsystem (A)

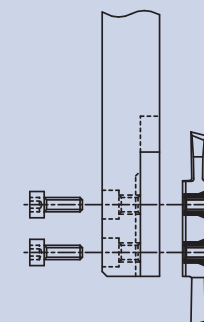
standard
clamping system (A)



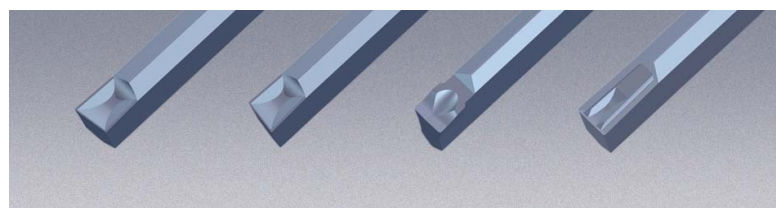
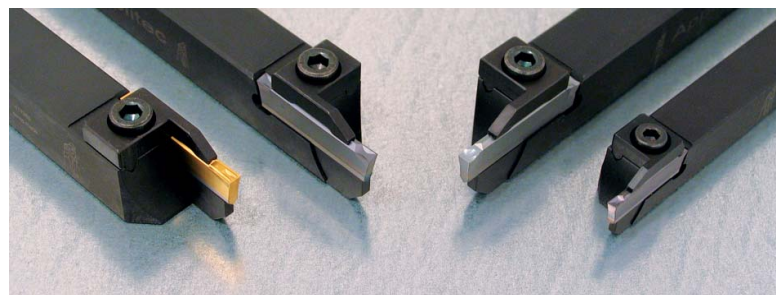
serrage
type B

Spannsystem
Typ B

clamping system
type B



CUT-LINE



INFO

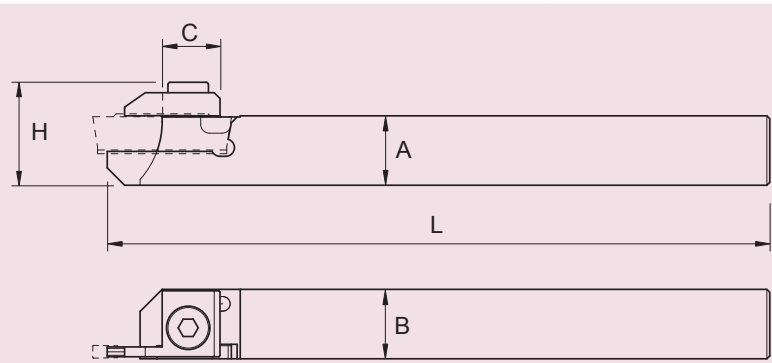
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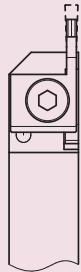
	Porte-outils Halter Holders	H	2.02
		LP / RP	2.03
		U	2.04
		NG	2.05

Nuances des plaquettes Wendeplatte-Sorten PVD thin coating		
TiN revêtement PVD PVD Beschichtung PVD coating	TiAlN revêtement PVD PVD Beschichtung PVD coating	Tmax revêtement PVD épais PVD Dickbeschichtung PVD thick coating
nuance universelle pour travaux légers très faible coefficient de frottement 1er choix pour l'usinage des matières peu résistantes qui créent des arêtes rapportées à éviter pour l'usinage du titane	excellente nuance universelle très bonne résistance à la température 1er choix pour l'usinage finition des aciers, aciers inoxydables et alliages de titane	nuance pour usinages moyens à lourds des aciers et aciers inoxydables résiste aux températures d'usinage élevées 1er choix pour le tronçonnage des aciers alliés
Universal-Sorte für leichte Bearbeitung sehr geringer Reibwert bestens geeignet für die Bearbeitung von weichen Werkstoffen mit Tendenz zur Bildung von Aufbauschneiden für die Bearbeitung von Titan nicht geeignet	beste Universal-Sorte sehr gute Warmfestigkeit bestens geeignet für die Bearbeitung von Stahl, rostfreiem Stahl und Titan Legierung	Sorte für mittlere bis hohe Belastung in Stahl und rostfreiem Stahl Bearbeitung hohe Bearbeitungs-Warmfestigkeit bestens geeignet für die Bearbeitung von legiertem Stahl
universal grade for light machining very low friction ratio first choice for low resistance materials which causes edge build-up not suitable for titanium machining	best universal grade very good heat resistance first choice for steel, stainless steel and titanium alloys machining	grade for medium to heavy machining of steel and stainless steel high machining heat resistance first choice for the machining of alloyed steel

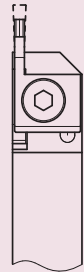
Porte-outils
Halter
Holders



L



R



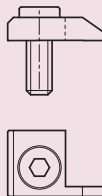
A x B x L	H	C	Art. N°	Art. N°	Plaquette WSP Insert
10 x 10 x 115	15.5	9.5	CUT16-H1010L	CUT16-H1010R	CUT16-..
12 x 12 x 130	17.5	9.5	CUT16-H1212L	CUT16-H1212R	CUT16-..
12 x 12 x 90	17.5	9.5	CUT16-H1212L-90	CUT16-H1212R-90	CUT16-..
13 x 13 x 130	18.5	9.5	CUT16-H1313L	CUT16-H1313R	CUT16-..

10 x 12 x 115	15.5	10	CUT22-H1012L	CUT22-H1012R	CUT22-..
12 x 12 x 130	17.5	10	CUT22-H1212L	CUT22-H1212R	CUT22-..
12 x 12 x 90	17.5	10	CUT22-H1212L-90	CUT22-H1212R-90	CUT22-..
13 x 13 x 130	18.5	10	CUT22-H1313L	CUT22-H1313R	CUT22-..
16 x 16 x 130	21.5	10	CUT22-H1616L	CUT22-H1616R	CUT22-..
16 x 16 x 75	21.5	10	CUT22-H1616L-75	CUT22-H1616R-75	CUT22-..
20 x 20 x 120	25.5	10	CUT22-H2020L	CUT22-H2020R	CUT22-..

16 x 16 x 130	23	11.5	CUT31-H1616L	CUT31-H1616R	CUT31-..
16 x 16 x 75	23	11.5	CUT31-H1616L-75	CUT31-H1616R-75	CUT31-..
20 x 20 x 120	27	11.5	CUT31-H2020L	CUT31-H2020R	CUT31-..
25 x 25 x 140	32	11.5	CUT31-H2525L	CUT31-H2525R	CUT31-..

Pièces de rechange
Ersatzteile
Spare parts

L



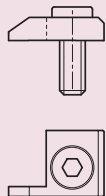
Art. N°

CUT16L-SET

CUT22L-SET

CUT31L-SET

R



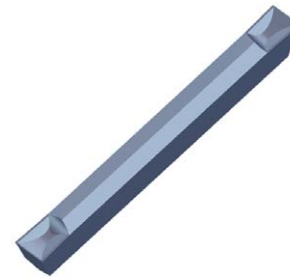
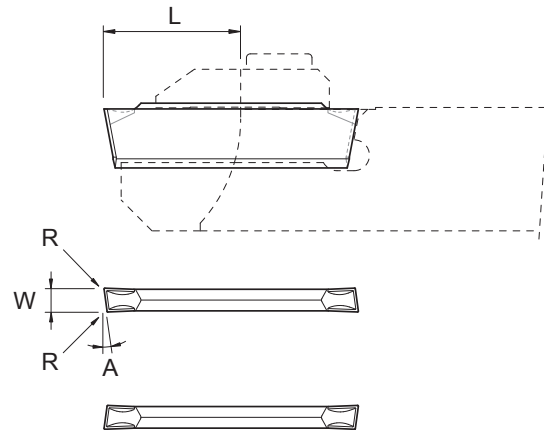
Art. N°

CUT16R-SET

CUT22R-SET

CUT31R-SET

Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts



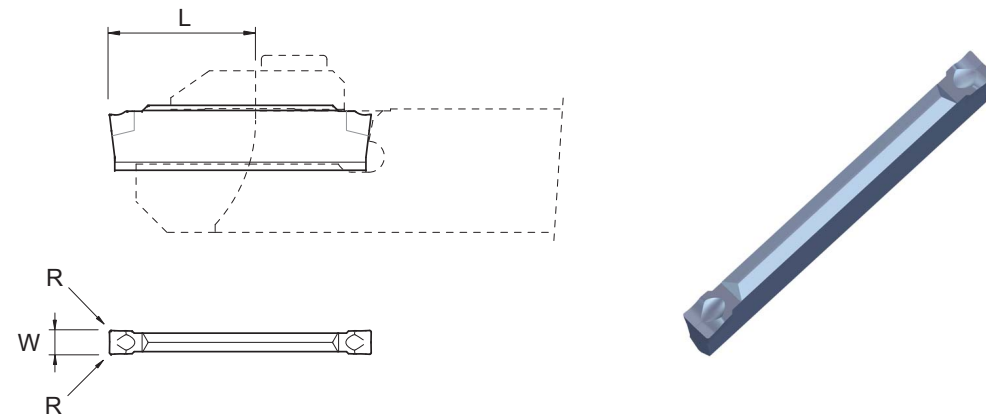
L						R		
Art. N°	TiN TiALN Tmax	A	L	R	W +/-0.05	Art. N°	TiN TiALN Tmax	
CUT16-LP	■ ■ ■	8°	7	0.10	1.6	CUT16-RP	■ ■ ■	
CUT22-LP	■ ■ ■	8°	11.5	0.15	2.2	CUT22-RP	■ ■ ■	
CUT31-LP	■ ■ ■	8°	17	0.15	3.1	CUT31-RP	■ ■ ■	

■ = Standard
□ = Sur demande / Auf Anfrage / On request

Paramètres de coupe indicatifs
Empfohlene Schittwerte
Standard machining data

Matière Werkstoff Material	Vc (m/min)	Tronçonnage Abstechen Cut off		
		F (mm/U) CUT16	F (mm/U) CUT22	F (mm/U) CUT31
Acier de décolletage Automatenstahl Free-cutting steel	80 - 150	0.02 - 0.08	0.03 - 0.10	0.03 - 0.12
Acier Stahl Steel < 600 N/mm2	70 - 120	0.02 - 0.06	0.03 - 0.08	0.03 - 0.10
Acier Stahl Steel < 800 N/mm2	60 - 100	0.02 - 0.05	0.03 - 0.06	0.03 - 0.08
Acier Stahl Steel > 800 N/mm2	40 - 80	0.02 - 0.04	0.03 - 0.05	0.03 - 0.07
Acier inoxydable Rostfreistahl Stainless steel	60 - 100	0.02 - 0.06	0.03 - 0.08	0.03 - 0.10
Aluminium	150 - 300	0.02 - 0.10	0.03 - 0.12	0.03 - 0.15
Titane Titan Titanium	30 - 60	0.02 - 0.06	0.03 - 0.08	0.03 - 0.10
Cuivre, laiton, bronze Kupfer, Messing, Bronze Copper, brass, bronze	100 - 300	0.02 - 0.08	0.03 - 0.10	0.03 - 0.12

Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts



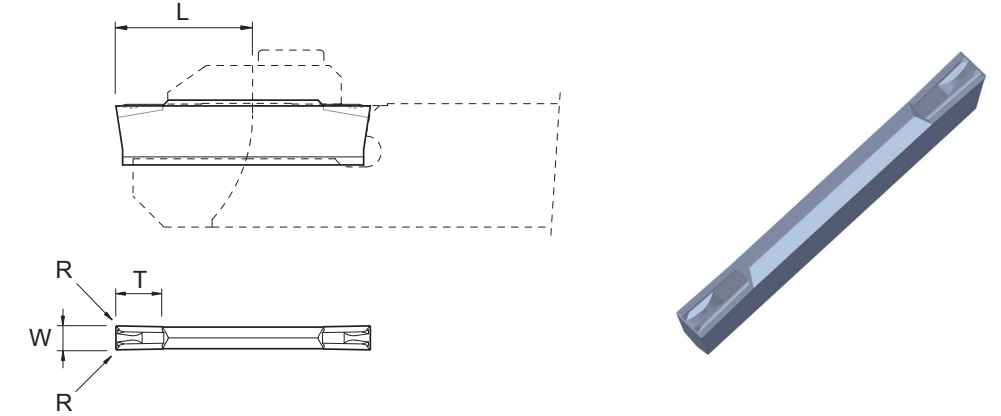
L	R	W +/-0.05	Art. N°	TiN	TiAlN	Tmax
12	0.2	2.2	CUT22-NP-U	■	■	■
18.5	0.2	3.1	CUT31-NP-U	■	■	■

■ = Standard
□ = Sur demande / Auf Anfrage / On request

Paramètres de coupe indicatifs
Empfohlene Schittwerte
Standard machining data

Matière Werkstoff Material	Vc (m/min)	Tronçonnage Abstechen Cut off	
		F (mm/U) CUT22	F (mm/U) CUT31
Acier de décolletage Automatenstahl Free-cutting steel	90 - 150	0.03 - 0.12	0.04 - 0.15
Acier Stahl Steel < 600 N/mm2	70 - 120	0.03 - 0.10	0.04 - 0.12
Acier Stahl Steel < 800 N/mm2	60 - 100	0.03 - 0.08	0.04 - 0.10
Acier Stahl Steel > 800 N/mm2	50 - 80	0.03 - 0.07	0.04 - 0.08
Acier inoxydable Rostfreistahl Stainless steel	60 - 100	0.03 - 0.08	0.04 - 0.12
Aluminium	150 - 300	0.03 - 0.12	0.04 - 0.15
Titane Titan Titanium	30 -60	0.03 - 0.08	0.04 - 0.10
Cuivre, laiton, bronze Kupfer, Messing, Bronze Copper, brass, bronze	100 -300	0.03 - 0.12	0.04 - 0.15

Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts



T	L	R	W +/-0.05	Art. N°	TiN	TiAlN	Tmax
2.5	7.5	0.10	1.6	CUT16-NG	■	■	■
3.5	11.5	0.15	2.2	CUT22-NG	■	■	■
5	17	0.15	3.1	CUT31-NG	■	■	■

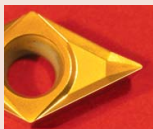
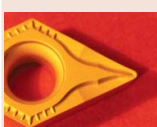
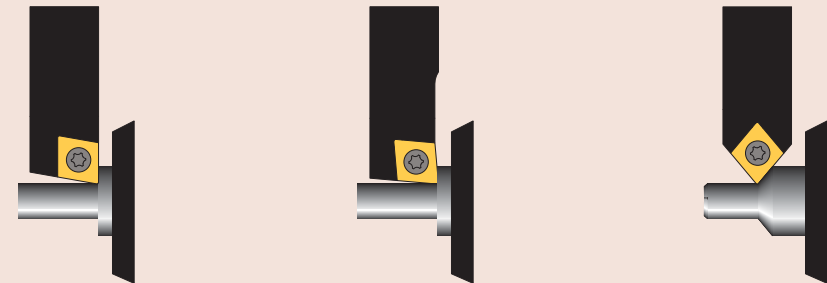
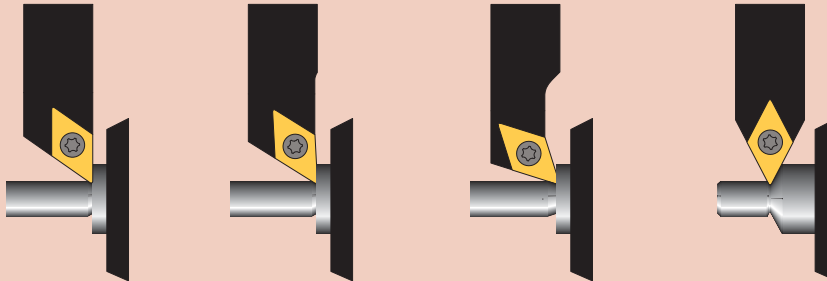
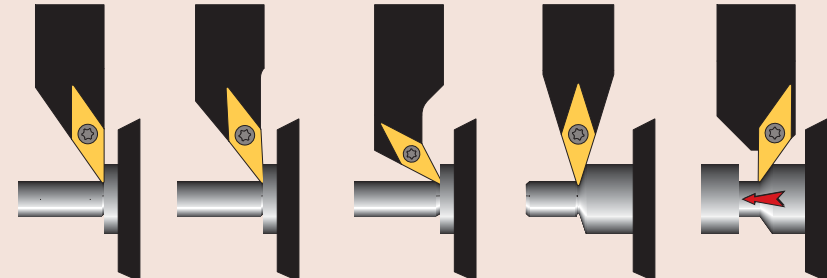
■ = Standard
□ = Sur demande / Auf Anfrage / On request

Paramètres de coupe indicatifs
Empfohlene Schittwerte
Standard machining data

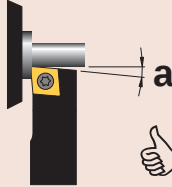
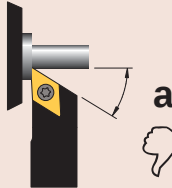
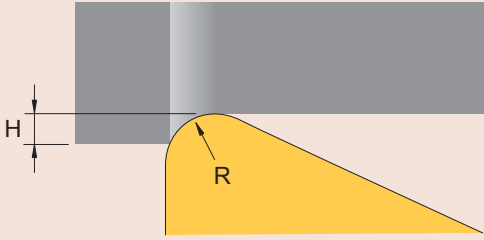
Matière Werkstoff Material	Vc (m/min)	Tournage Drehen Turning		
		F (mm/U) CUT16	F (mm/U) CUT22	F (mm/U) CUT31
Acier de décolletage Automatenstahl Free-cutting steel	120 - 200	0.02 - 0.08	0.03 - 0.12	0.04 - 0.15
Acier Stahl Steel < 600 N/mm2	80 - 160	0.02 - 0.06	0.03 - 0.10	0.04 - 0.12
Acier Stahl Steel < 800 N/mm2	60 - 120	0.02 - 0.05	0.03 - 0.08	0.04 - 0.10
Acier Stahl Steel > 800 N/mm2	50 - 100	0.02 - 0.04	0.03 - 0.07	0.04 - 0.08
Acier inoxydable Rostfreistahl Stainless steel	60 - 120	0.02 - 0.06	0.03 - 0.08	0.04 - 0.10
Aluminium	180 - 400	0.02 - 0.10	0.03 - 0.12	0.04 - 0.15
Titane Titan Titanium	40 -70	0.02 - 0.06	0.03 - 0.08	0.04 - 0.10
Cuivre, laiton, bronze Kupfer, Messing, Bronze Copper, brass, bronze	100 -400	0.02 - 0.08	0.03 - 0.10	0.04 - 0.12

ISO-LINE



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Nuances des plaquettes Wendeplatte-Sorten Insert grades		
TiN revêtement PVD PVD Beschichtung PVD coating	TiALN revêtement PVD PVD Beschichtung PVD coating	Tmax revêtement PVD épais PVD Dickbeschichtung PVD thick coating
nuance universelle pour travaux légers très faible coefficient de frottement 1er choix pour l'usinage des matières peu résistantes qui créent des arêtes rapportées à éviter pour l'usinage du titane	excellente nuance universelle très bonne résistance à la température 1er choix pour l'usinage finition des aciers, aciers inoxydables et alliages de titane	nuance pour usinages moyens à lourds des aciers et aciers inoxydables très faible coefficient de frottement résiste aux températures d'usinage élevées
Universal-Sorte für leichte Bearbeitung sehr geringer Reibwert bestens geeignet für die Bearbeitung von weichen Werkstoffen mit Tendenz zur Bildung von Aufbauschnieden für die Bearbeitung von Titan nicht geeignet	beste Universal-Sorte sehr gute Warmfestigkeit bestens geeignet für die Bearbeitung von Stahl, rostfreiem Stahl und Titan Legierungen	Sorte für mittlere bis hohe Belastung in Stahl und rostfreiem Stahl Bearbeitung sehr geringer Reibwert hohe Bearbeitungs-Warmfestigkeit
universal grade for light machining very low friction ratio first choice for low resistance materials which causes edge build-up not suitable for titanium machining	best universal grade very good heat resistance first choice for steel, stainless steel and titanium alloys machining	grade for medium to heavy machining of steel and stainless steel very low friction ratio high machining heat resistance
Ti3 revêtement CVD CVD Beschichtung CVD coating	K10 non revêtu unbeschichtet uncoated	K20 non revêtu unbeschichtet uncoated
nuance pour usinages moyens à lourds des aciers et aciers inoxydables résiste aux températures d'usinage élevées	nuance micro-grain très résistante à l'usure recommandé pour l'usinage du titane déconseillé en cas de coupe interrompue	nuance micro-grain tenace 1er choix comme base pour un revêtement supporte les coupes interrompues
Sorte für mittlere bis hohe Belastung in Stahl und rostfreiem Stahl Bearbeitung hohe Bearbeitungs-Warmfestigkeit	verschleissfeste Feinkorn-Sorte empfehlenswert für Titan Bearbeitung für unterbrochene Schnitte nicht geeignet	zähe Feinkorn-Sorte beste Basis für eine Beschichtung für unterbrochene Schnitte geeignet
grade for medium to heavy machining of steel and stainless steel high machining heat resistance	wear resistant micro-grain grade suitable for titanium machining not suitable for interrupted cut	tough micro-grain grade first choice as base for coating suitable for interrupted cut

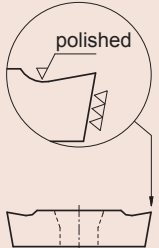
Paramètres de coupe indicatifs Empfohlene Schnittwerte Standard machining data						
Vc m / min	Nuances Sorten Grades					
Matière Werkstoff Material	PVD			CVD	non revêtu unbeschichtet uncoated	
	TiN	TiALN	Tmax	Ti3	K10	K20
Acier de décolletage Automatenstahl Free-cutting steel	120 - 180	120 - 200	120 - 220	120 - 250		
Acier Stahl Steel < 600 N/mm²	80 - 150	80 - 170	80 - 200	100 - 220		
Acier Stahl Steel < 800 N/mm²	60 - 120	60 - 150	60 - 180	100 - 200		
Acier Stahl Steel > 800 N/mm²		50 - 120	60 - 150	80 - 180		
Acier inoxydable Rostfreistahl Stainless steel	80 - 120	60 - 140	80 - 160	100 - 200		
Aluminium Si < 12%	250 - 2000				250 - 2000	250 - 1500
Aluminium Si > 12%	200 -1500				200 - 1500	200 - 1000
Titane Titan Titanium		30 - 80			30 - 70	30 - 60
Cuivre, laiton, bronze Kupfer, Messing, Bronze Copper, brass, bronze	100 - 500				100 - 500	100 - 300
Conseils d'utilisation Anwendungs-Empfehlungen Application recommendations						
 pour un meilleur état de surface et une meilleure stabilité d'usinage, choisir une géométrie d'outil permettant un angle "a" le plus petit possible  für bessere Oberflächegüte und Bearbeitungs-Stabilität, muss Werkzeug-Geometrie mit kleinstmöglichem Winkel "a" ausgewählt werden. for a better surface finish and better machining stability, choose a tool geometry with angle "a" as small as possible						
Rapport hauteur de passe / rayon d'outil Verhältniss zwischen Spantiefe und Werkzeugradius machining depth / tool radius ratio  H min 0.7 x R R max = 1.4 x H						

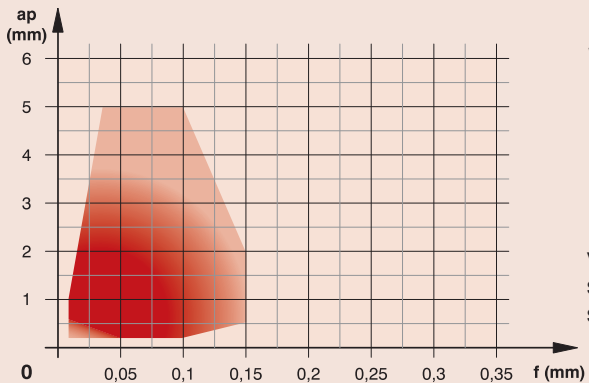
Géométries de coupe
Spanformgeometrien
cutting geometries

type
FN-X8°



arête de coupe vive
scharfe Schneidkante
sharp cutting edge





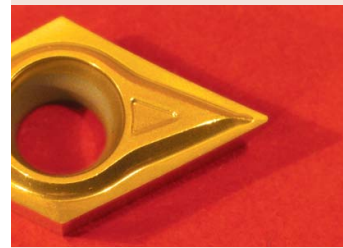
Matière
Werkstoff
Material

voir page :
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3.03

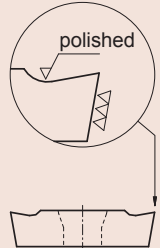
Descriptif - plaquette polie et rectifiée - arête de coupe vive - coupe positive 8° avec maîtrise des copeaux - nuances micro-grain avec revêtements PVD	Application - finition - géométrie universelle pour l'usinage de toutes matières - avance F = 0.01-0.15 mm
Beschreibung - polierte und geschliffene Wendeplatte - scharfe Schneidkante 8° positiver Schnitt mit kontrolliertem Spanbruch - Feinkornsorten mit PVD-Beschichtungen	Anwendung - Schlichtbearbeitung - allgemeine Geometrie für die Bearbeitung aller Werkstoffe - Vorschub F = 0.01-0.15 mm
Description - polished and ground insert - sharp cutting edge 8° positive cut with controlled chip-breaking - micrograin grades with PVD coatings	Application - finishing - general purpose geometry for the machining of all materials - feed rate F = 0.01-0.15 mm

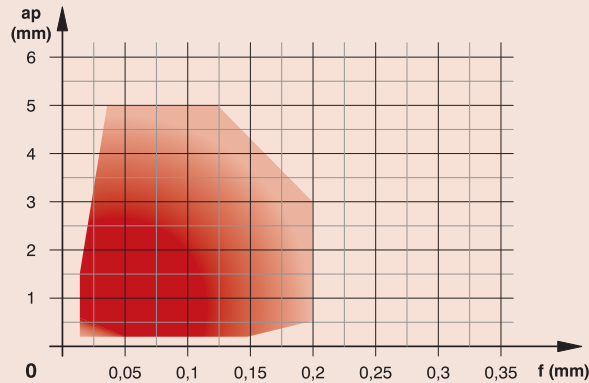
Géométries de coupe
Spanformgeometrien
cutting geometries

type
FN-X17°



arête de coupe vive
scharfe Schneidkante
sharp cutting edge





Matière
Werkstoff
Material

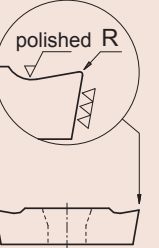
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3.03

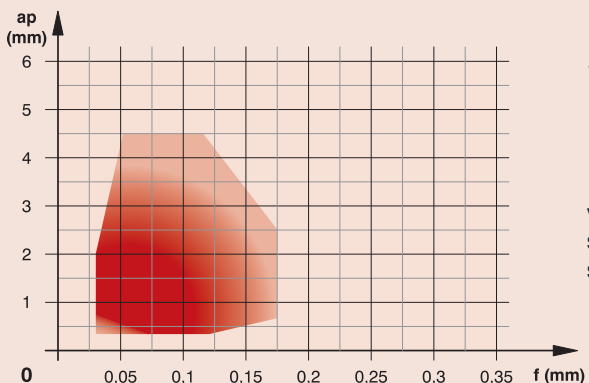
Descriptif - plaquette polie et rectifiée - arête de coupe vive - coupe positive 17° avec maîtrise des copeaux - nuances micro-grain avec revêtements PVD	Application - finition - usinage des alliages d'aluminium et de titane, des matières non-ferreuses, ainsi que des aciers inoxydables - avance F = 0.015-0.20 mm
Beschreibung - polierte und geschliffene Wendeplatte - scharfe Schneidkante 17° positiver Schnitt mit kontrolliertem Spanbruch - Feinkornsorten mit PVD-Beschichtungen	Anwendung - Schlichtbearbeitung - Bearbeitung von Aluminium und Titan, Nichteisenmetalle und rostfreiem Stahl - Vorschub F = 0.015-0.20 mm
Description - polished and ground insert - sharp cutting edge 17° positive cut with controlled chip-breaking - micrograin grades with PVD coatings	Application - finishing - machining of aluminium alloys, non-ferrous materials and stainless steel - feed rate F = 0.015-0.20 mm

type
ENP-X8°



arête de coupe polie
polierte Schneidkante
polished cutting edge





Matière
Werkstoff
Material

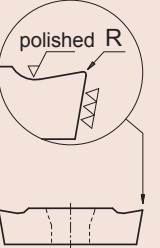
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see page :
3.03

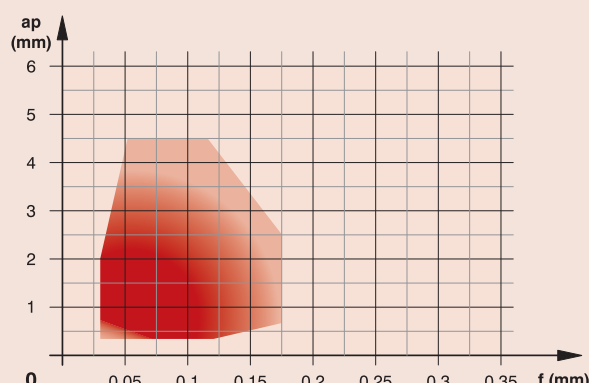
Descriptif - plaquette polie et rectifiée - arête de coupe renforcée par polissage - coupe positive 8° avec maîtrise des copeaux - nuances micro-grain avec revêtements PVD	Application - finition et semi-finition - usinage des aciers et aciers inoxydables - avance F = 0.03-0.18 mm
Beschreibung - polierte und geschliffene Wendeplatte - verstärkte und polierte Schneidkante 8° positiver Schnitt mit kontrolliertem Spanbruch - Feinkornsorten mit PVD-Beschichtungen	Anwendung - mittlere bis Schlichtbearbeitung - für die Bearbeitung von Stahl und rostfreiem Stahl - Vorschub F = 0.03-0.18 mm
Description - polished and ground insert - reinforced and polished cutting edge 8° positive cut with controlled chip-breaking - micrograin grades with PVD coatings	Application - finishing and semi-finishing - steel and stainless steel machining - feed rate F = 0.03-0.18 mm

type
ENP-X17°



arête de coupe polie
polierte Schneidkante
polished cutting edge





Matière
Werkstoff
Material

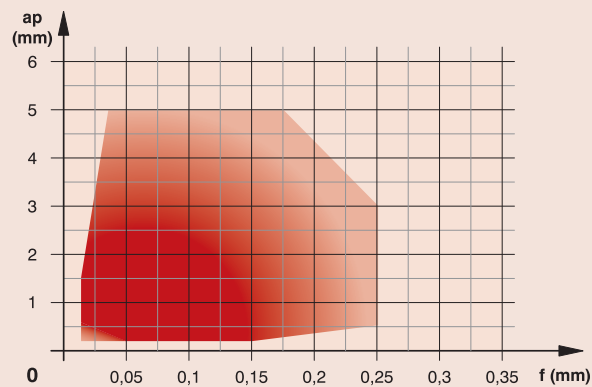
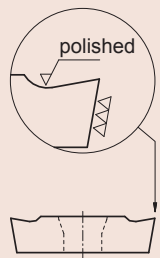
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3.03

Descriptif - plaquette polie et rectifiée - arête de coupe renforcée par polissage - coupe positive 17° avec maîtrise des copeaux - nuances micro-grain avec revêtements PVD	Application - finition et semi-finition - usinage des aciers et aciers inoxydables - avance F = 0.03-0.18 mm
Beschreibung - polierte und geschliffene Wendeplatte - verstärkte und polierte Schneidkante 17° positiver Schnitt mit kontrolliertem Spanbruch - Feinkornsorten mit PVD-Beschichtungen	Anwendung - mittlere bis Schlichtbearbeitung - für die Bearbeitung von Stahl und rostfreiem Stahl - Vorschub F = 0.03-0.18 mm
Description - polished and ground insert - reinforced and polished cutting edge 17° positive cut with controlled chip-breaking - micrograin grades with PVD coatings	Application - finishing and semi-finishing - steel and stainless steel machining - feed rate F = 0.03-0.18 mm

Géométries de coupe
Spanformgeometrien
cutting geometries

type
FN-X25°

arête de coupe vive
scharfe Schneidkante
sharp cutting edge



Matière
Werkstoff
Material



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siehe Seite :
see page :
3.03

Descriptif

- plaque polie et rectifiée
- arête de coupe vive
- coupe positive 25° avec maîtrise des copeaux
- nuances micro-grain avec revêtements PVD

Beschreibung

- polierte und geschliffene Wendeplatte
- scharfe Schneidkante
- 25° positiver Schnitt mit kontrolliertem Spanbruch
- Feinkornsorten mit PVD-Beschichtungen

Description

- polished and ground insert
- sharp cutting edge
- 25° positive cut with controlled chip-breaking
- micrograin grades with PVD coatings

Application

- finition
- usinage des alliages d'aluminium et des matières non-ferreuses, ainsi que des aciers inoxydables
- avance F = 0.015-0.25 mm

Anwendung

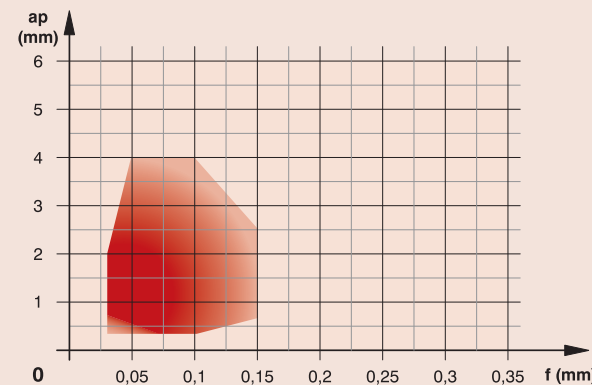
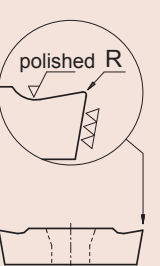
- Schlichtbearbeitung
- Bearbeitung von Aluminium-Legierungen, Nichteisenmetalle und rostfreiem Stahl
- Vorschub F = 0.015-0.25 mm

Application

- finishing
- machining of aluminium alloys, non-ferrous materials and stainless steel
- feed rate F = 0.015-0.25 mm

type
ENP-X25°

arête de coupe polie
polierte Schneidkante
polished cutting edge



Matière
Werkstoff
Material



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3.03

Descriptif

- plaque polie et rectifiée
- arête de coupe renforcée par polissage
- coupe positive 25° avec maîtrise des copeaux
- nuances micro-grain avec revêtements PVD

Beschreibung

- polierte und geschliffene Wendeplatte
- verstärkte und polierte Schneidkante
- 25° positiver Schnitt mit kontrolliertem Spanbruch
- Feinkornsorten mit PVD-Beschichtungen

Description

- polished and ground insert
- reinforced and polished cutting edge
- 25° positive cut with controlled chip-breaking
- micrograin grades with PVD coatings

Application

- finition et semi-finition
- usinage des aciers et aciers inoxydables
- avance F = 0.03-0.15 mm

Anwendung

- mittlere bis Schlichtbearbeitung
- für die Bearbeitung von Stahl und rostfreiem Stahl
- Vorschub F = 0.03-0.15 mm

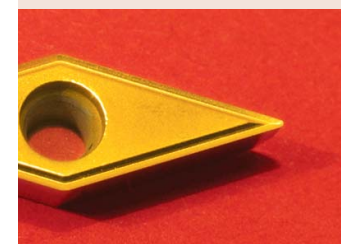
Application

- finishing and semi-finishing
- steel and stainless steel machining
- feed rate F = 0.03-0.15 mm

Géométries de coupe
Spanformgeometrien
cutting geometries

type
FN-K18°

disponible uniquement en version 35° type VCGT-1103
nur als 35°-Ausführung typ VCGT-1103 erhältlich
available only in 35° execution type VCGT-1103



arête de coupe vive
scharfe Schneidkante
sharp cutting edge



Matière
Werkstoff
Material



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3.03

Descriptif

- plaque polie et rectifiée
- arête de coupe vive
- coupe positive 18° avec maîtrise des copeaux
- nuances micro-grain avec revêtements PVD

Beschreibung

- polierte und geschliffene Wendeplatte
- scharfe Schneidkante
- 18° positiver Schnitt mit kontrolliertem Spanbruch
- Feinkornsorten mit PVD-Beschichtungen

Description

- polished and ground insert
- sharp cutting edge
- 18° positive cut with controlled chip-breaking
- micrograin grades with PVD coatings

Application

- finition
- géométrie universelle pour l'usinage de toutes matières
- avance F = 0.01-0.10 mm

Anwendung

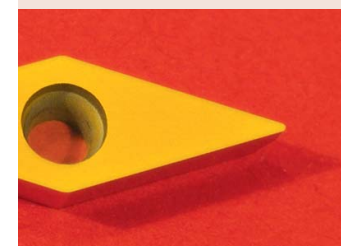
- Schlichtbearbeitung
- allgemeine Geometrie für die Bearbeitung aller Werkstoffe
- Vorschub F = 0.01-0.10 mm

Application

- finishing
- general purpose geometry for the machining of all materials
- feed rate F = 0.01-0.10 mm

type
FN-0°

disponible uniquement en version 35° type VCGW-1103
nur als 35°-Ausführung typ VCGW-1103 erhältlich
available only in 35° execution type VCGW-1103



arête de coupe vive
scharfe Schneidkante
sharp cutting edge

Matière
Werkstoff
Material



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3.03

Descriptif

- plaque polie et rectifiée
- arête de coupe vive
- coupe neutre 0°
- nuances micro-grain avec revêtements PVD

Beschreibung

- polierte und geschliffene Wendeplatte
- scharfe Schneidkante
- 0° neutral Schnitt
- Feinkornsorten mit PVD-Beschichtungen

Description

- polished and ground insert
- sharp cutting edge
- neutral cut 0°
- micrograin grades with PVD coatings

Application

- finition
- usinage du laiton
- avance F = 0.01-0.10 mm

Anwendung

- mittlere bis Schlichtbearbeitung
- Messing-Bearbeitung
- Vorschub F = 0.01-0.10 mm

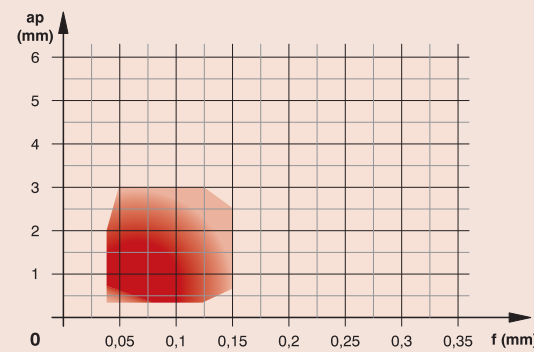
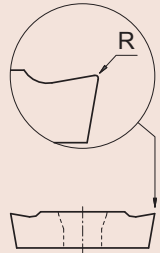
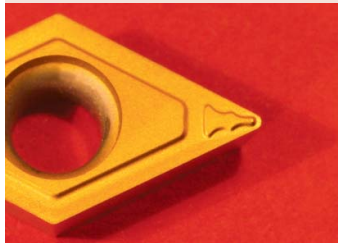
Application

- finishing and semi-finishing
- brass machining
- feed rate F = 0.01-0.10 mm

Géométries de coupe
Spanformgeometrien
cutting geometries

type
EN-XF

traitement d'arête minimum
kleinste Schneidkante Behandlung
smallest cutting edge treatment



Matière
Werkstoff
Material



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3.03

Descriptif

- plaque non rectifiée
- coupe positive avec maîtrise des copeaux
- traitement spécial permettant un rayon minimum des arêtes de coupe
- revêtements PVD et CVD

Beschreibung

- ungeschliffene Wendeplatte
- positiver Schnitt mit kontrolliertem Spanbruch
- kleinste Schneidkanten-Abrundung durch Sonderbehandlungs-Prozess
- PVD und CVD Beschichtungen

Description

- unground insert
- positive cut with controlled chip-breaking
- special treatment for smallest cutting edge rounding
- PVD and CVD coatings

Application

- finition et semi-finition
- usinage des aciers et aciers inoxydables
- avance F = 0.04-0.15 mm

Anwendung

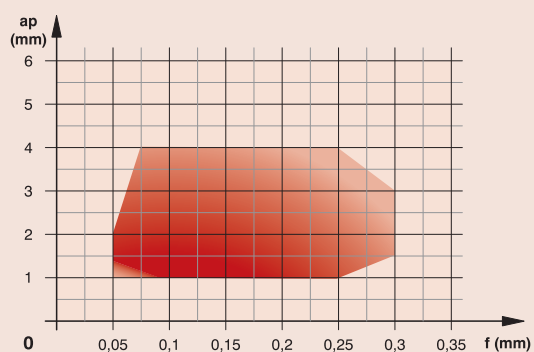
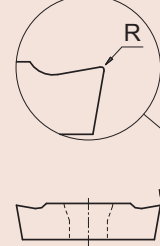
- mittlere bis Schlichtbearbeitung
- für die Bearbeitung von Stahl und rostfreiem Stahl
- Vorschub F = 0.04-0.15 mm

Application

- finishing and semi-finishing
- steel and stainless steel machining
- feed rate F = 0.04-0.15 mm

type
EN-MF

traitement d'arête
Schneidkante Behandlung
cutting edge treatment



Matière
Werkstoff
Material



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3.03

Descriptif

- plaque non rectifiée
- coupe positive avec maîtrise des copeaux
- traitement spécial des arêtes de coupe
- revêtements PVD et CVD

Beschreibung

- ungeschliffene Wendeplatte
- positiver Schnitt mit kontrolliertem Spanbruch
- Schneidkanten-Abrundung durch Sonderbehandlungs-Prozess
- PVD und CVD Beschichtungen

Description

- unground insert
- positive cut with controlled chip-breaking
- special treatment for cutting edge rounding
- PVD and CVD coatings

Application

- travaux moyens
- usinage des aciers et aciers inoxydables
- avance F = 0.05-0.30 mm

Anwendung

- Mittlere Bearbeitung
- für die Bearbeitung von Stahl und rostfreiem Stahl
- Vorschub F = 0.05-0.30 mm

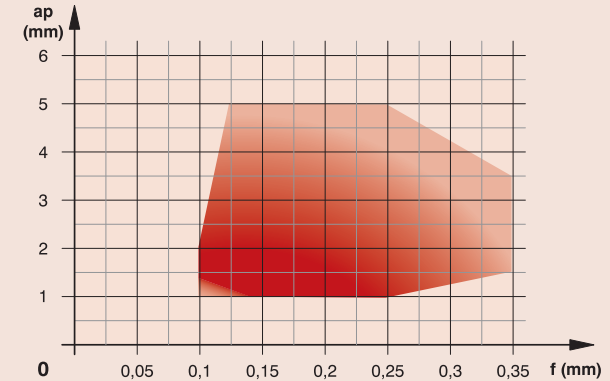
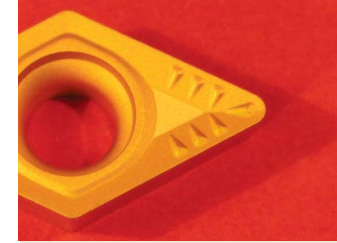
Application

- medium turning
- steel and stainless steel machining
- feed rate F = 0.05-0.30 mm

Géométries de coupe
Spanformgeometrien
cutting geometries

type
EN-HF

traitement d'arête
Schneidkante Behandlung
cutting edge treatment



Matière
Werkstoff
Material



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3.03

Descriptif

- plaque non rectifiée
- coupe positive avec maîtrise des copeaux
- traitement spécial des arêtes de coupe
- revêtement CVD

Beschreibung

- ungeschliffene Wendeplatte
- positiver Schnitt mit kontrolliertem Spanbruch
- Schneidkanten-Abrundung durch Sonderbehandlungs-Prozess
- CVD Beschichtung

Description

- unground insert
- positive cut with controlled chip-breaking
- special treatment for cutting edge rounding
- CVD coating

Application

- travaux moyens et ébauche
- usinage des aciers et aciers inoxydables
- avance F = 0.1-0.35 mm

Anwendung

- Mittlere- und Schrupp-Bearbeitung
- für die Bearbeitung von Stahl und rostfreiem Stahl
- Vorschub F = 0.1-0.35 mm

Application

- medium turning and roughing
- steel and stainless steel machining
- feed rate F = 0.1-0.35 mm

INFO

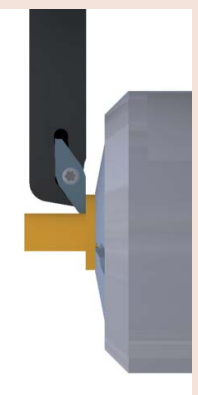
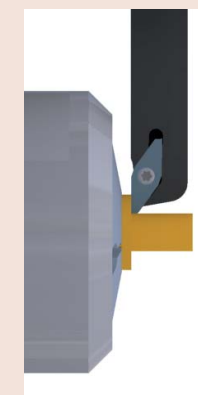
TOP-LINE 300

plaquettes sans rayons : R = 0
géométries spécifiques pour le décolletage

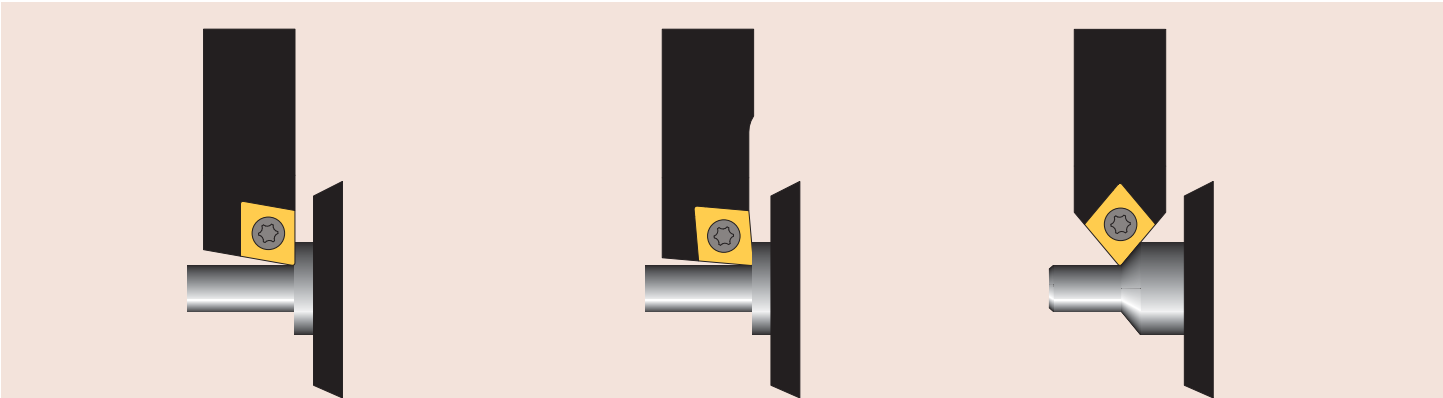
Wendeplatten ohne Radius : R = 0
Sondergeometrien für Landrehautomaten

Inserts without radius : R = 0
special geometries for automatic lathes

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siehe Seiten 1.8 - 1.15
see pages 1.8 - 1.15

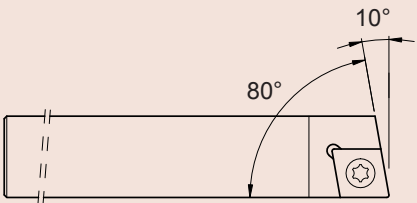


Outils de tournage 80 °
80°-Drehwerkzeuge
turning tools 80°



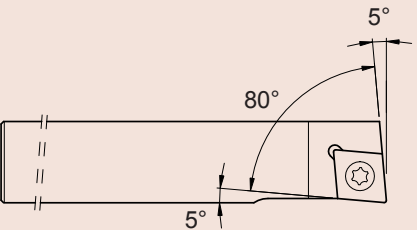
porte-outils
Halter
holders

L



ISO-Code	Art. N°	Ø X L	Plaquette WSP insert
SCACL-0808X-06	ISO-2112	8 x 8 x 115	CC..-0602..
SCACL-1010X-06	ISO-2113	10 x 10 x 115	CC..-0602..
SCACL-1212X-06	ISO-2114	12 x 12 x 130	CC..-0602..
SCACL-1212G-06	ISO-2114-90	12 x 12 x 90	CC..-0602..
SCACL-1616X-06	ISO-2115	16 x 16 x 130	CC..-0602..
SCACL-1616F-06	ISO-2115-75	16 x 16 x 75	CC..-0602..
SCACL-1212X-09	ISO-2214	12 x 12 x 130	CC..-09T3..
SCACL-1212G-09	ISO-2214-90	12 x 12 x 90	CC..-09T3..
SCACL-1616X-09	ISO-2215	16 x 16 x 130	CC..-09T3..
SCACL-1616F-09	ISO-2215-75	16 x 16 x 75	CC..-09T3..
SCACL-2020X-09	ISO-2216	20 x 20 x 120	CC..-09T3..

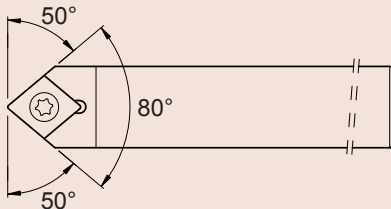
L



ISO-Code	Art. N°	Ø X L	Plaquette WSP insert
SCLCL-0808X-06	ISO-2132	8 x 8 x 115	CC..-0602..
SCLCL-1010X-06	ISO-2133	10 x 10 x 115	CC..-0602..
SCLCL-1212X-06	ISO-2134	12 x 12 x 130	CC..-0602..
SCLCL-1212G-06	ISO-2134-90	12 x 12 x 90	CC..-0602..
SCLCL-1616X-06	ISO-2135	16 x 16 x 130	CC..-0602..
SCLCL-1616F-06	ISO-2135-75	16 x 16 x 75	CC..-0602..
SCLCL-1212X-09	ISO-2234	12 x 12 x 130	CC..-09T3..
SCLCL-1212G-09	ISO-2234-90	12 x 12 x 90	CC..-09T3..
SCLCL-1616X-09	ISO-2235	16 x 16 x 130	CC..-09T3..
SCLCL-1616F-09	ISO-2235-75	16 x 16 x 75	CC..-09T3..
SCLCL-2020X-09	ISO-2236	20 x 20 x 120	CC..-09T3..

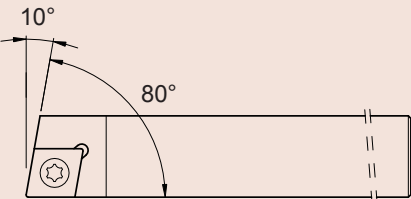
porte-outils
Halter
holders

N



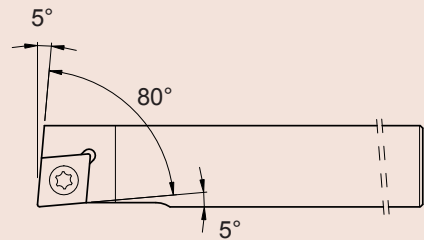
ISO-Code	Art. N°	Ø X L	Plaquette WSP insert
SCMCN-0808X-06	ISO-2102	8 x 8 x 115	CC..-0602..
SCMCN-1010X-06	ISO-2103	10 x 10 x 115	CC..-0602..
SCMCN-1212X-06	ISO-2104	12 x 12 x 130	CC..-0602..
SCMCN-1212G-06	ISO-2104-90	12 x 12 x 90	CC..-0602..
SCMCN-1616X-06	ISO-2105	16 x 16 x 130	CC..-0602..
SCMCN-1616F-06	ISO-2105-75	16 x 16 x 75	CC..-0602..
SCMCN-1212X-09	ISO-2204	12 x 12 x 130	CC..-09T3..
SCMCN-1212G-09	ISO-2204-90	12 x 12 x 90	CC..-09T3..
SCMCN-1616X-09	ISO-2205	16 x 16 x 130	CC..-09T3..
SCMCN-1616F-09	ISO-2205-75	16 x 16 x 75	CC..-09T3..
SCMCN-2020X-09	ISO-2206	20 x 20 x 120	CC..-09T3..

R



ISO-Code	Art. N°	Ø X L	Plaquette WSP insert
SCACR-0808X-06	ISO-2122	8 x 8 x 115	CC..-0602..
SCACR-1010X-06	ISO-2123	10 x 10 x 115	CC..-0602..
SCACR-1212X-06	ISO-2124	12 x 12 x 130	CC..-0602..
SCACR-1212G-06	ISO-2124-90	12 x 12 x 90	CC..-0602..
SCACR-1616X-06	ISO-2125	16 x 16 x 130	CC..-0602..
SCACR-1616F-06	ISO-2125-75	16 x 16 x 75	CC..-0602..
SCACR-1212X-09	ISO-2224	12 x 12 x 130	CC..-09T3..
SCACR-1212G-09	ISO-2224-90	12 x 12 x 90	CC..-09T3..
SCACR-1616X-09	ISO-2225	16 x 16 x 130	CC..-09T3..
SCACR-1616F-09	ISO-2225-75	16 x 16 x 75	CC..-09T3..
SCACR-2020X-09	ISO-2226	20 x 20 x 120	CC..-09T3..

R

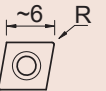
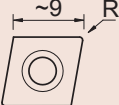
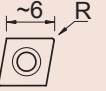
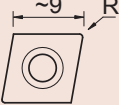
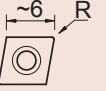
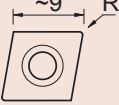
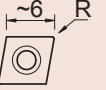
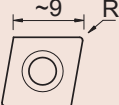


ISO-Code	Art. N°	Ø X L	Plaquette WSP insert
SCLCR-0808X-06	ISO-2142	8 x 8 x 115	CC..-0602..
SCLCR-1010X-06	ISO-2143	10 x 10 x 115	CC..-0602..
SCLCR-1212X-06	ISO-2144	12 x 12 x 130	CC..-0602..
SCLCR-1212G-06	ISO-2144-90	12 x 12 x 90	CC..-0602..
SCLCR-1616X-06	ISO-2145	16 x 16 x 130	CC..-0602..
SCLCR-1616F-06	ISO-2145-75	16 x 16 x 75	CC..-0602..
SCLCR-1212X-09	ISO-2244	12 x 12 x 130	CC..-09T3..
SCLCR-1212G-09	ISO-2244-90	12 x 12 x 90	CC..-09T3..
SCLCR-1616X-09	ISO-2245	16 x 16 x 130	CC..-09T3..
SCLCR-1616F-09	ISO-2245-75	16 x 16 x 75	CC..-09T3..
SCLCR-2020X-09	ISO-2246	20 x 20 x 120	CC..-09T3..

Vis et clés de rechange
Ersatzschrauben und Schlüssel
Spare screws and keys

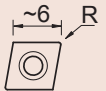
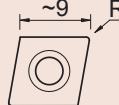
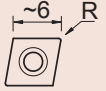
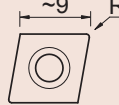
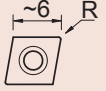
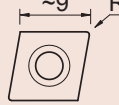
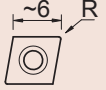
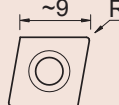
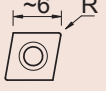
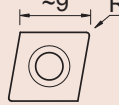
series ISO-2100	V-M2.5x7.8-T8		C-T8	
series ISO-2200	V-M4x9-T15-ISO		C-T15	

Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

		R	ISO-Code	Art. N°	revêtu beschichtet coated			non revêtu unbeschichtet uncoated	
					TiN	PVD TiAlN Tmax	CVD Ti3	K10	K20
CCGT		0.05	CCGT-0602005-FN-X8	ISO-1130	■	■		■	
		0.1	CCGT-060201-FN-X8	ISO-1131	■	■		■	
		0.2	CCGT-060202-FN-X8	ISO-1132	■	■		■	
		0.4	CCGT-060204-FN-X8	ISO-1134	■	■		■	
FN-X8°		0.05	CCGT-09T3005-FN-X8	ISO-1230	■	■		■	
		0.1	CCGT-09T301-FN-X8	ISO-1231	■	■		■	
		0.2	CCGT-09T302-FN-X8	ISO-1232	■	■		■	
		0.4	CCGT-09T304-FN-X8	ISO-1234	■	■		■	
CCGT		0.05	CCGT-0602005-ENP-X8	ISO-1130-P	□	■		□	
		0.1	CCGT-060201-ENP-X8	ISO-1131-P	□	■		□	
		0.2	CCGT-060202-ENP-X8	ISO-1132-P	□	■		□	
		0.4	CCGT-060204-ENP-X8	ISO-1134-P	□	■		□	
ENP-X8°		0.05	CCGT-09T3005-ENP-X8	ISO-1230-P	□	■		□	
		0.1	CCGT-09T301-ENP-X8	ISO-1231-P	□	■		□	
		0.2	CCGT-09T302-ENP-X8	ISO-1232-P	□	■		□	
		0.4	CCGT-09T304-ENP-X8	ISO-1234-P	□	■		□	
CCGT		0.05	CCGT-0602005-FN-X17	ISO-1140	■	■		□	■
		0.1	CCGT-060201-FN-X17	ISO-1141	■	■		□	■
		0.2	CCGT-060202-FN-X17	ISO-1142	■	■		□	■
		0.4	CCGT-060204-FN-X17	ISO-1144	■	■		□	■
FN-X17°		0.05	CCGT-09T3005FN-X17	ISO-1240	■	■		□	■
		0.1	CCGT-09T301-FN-X17	ISO-1241	■	■		□	■
		0.2	CCGT-09T302-FN-X17	ISO-1242	■	■		□	■
		0.4	CCGT-09T304-FN-X17	ISO-1244	■	■		□	■
CCGT		0.05	CCGT-0602005-ENP-X17	ISO-1140-P	□	■		□	
		0.1	CCGT-060201-ENP-X17	ISO-1141-P	□	■		□	
		0.2	CCGT-060202-ENP-X17	ISO-1142-P	□	■		□	
		0.4	CCGT-060204-ENP-X17	ISO-1144-P	□	■		□	
ENP-X17°		0.05	CCGT-09T3005-ENP-X17	ISO-1240-P	□	■		□	
		0.1	CCGT-09T301-ENP-X17	ISO-1241-P	□	■		□	
		0.2	CCGT-09T302-ENP-X17	ISO-1242-P	□	■		□	
		0.4	CCGT-09T304-ENP-X17	ISO-1244-P	□	■		□	

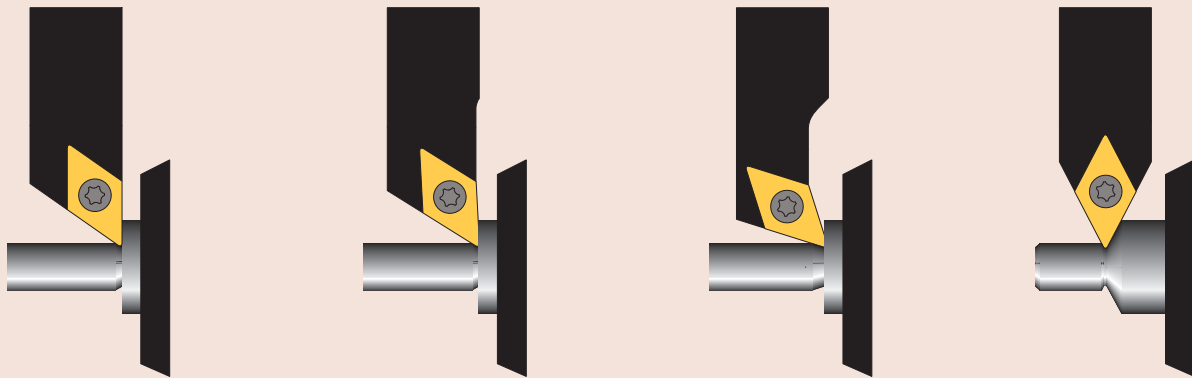
■ = Standard
□ = Sur demande / Auf Anfrage / On request

Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

		R	ISO-Code	Art. N°	revêtu beschichtet coated			non revêtu unbeschichtet uncoated	
					TiN	PVD TiAlN Tmax	CVD Ti3	K10	K20
CCGT		0.05	CCGT-0602005-FN-X25	ISO-1150	■	■		□	■
		0.1	CCGT-060201-FN-X25	ISO-1151	■	■		□	■
		0.2	CCGT-060202-FN-X25	ISO-1152	■	■		□	■
		0.4	CCGT-060204-FN-X25	ISO-1154	■	■		□	■
FN-X25°		0.05	CCGT-09T3005-FN-X25	ISO-1250	■	■		□	■
		0.1	CCGT-09T301-FN-X25	ISO-1251	■	■		□	■
		0.2	CCGT-09T302-FN-X25	ISO-1252	■	■		□	■
		0.4	CCGT-09T304-FN-X25	ISO-1254	■	■		□	■
CCGT		0.05	CCGT-0602005-ENP-X25	ISO-1150-P	□	■		□	
		0.1	CCGT-060201-ENP-X25	ISO-1151-P	□	■		□	
		0.2	CCGT-060202-ENP-X25	ISO-1152-P	□	■		□	
		0.4	CCGT-060204-ENP-X25	ISO-1154-P	□	■		□	
ENP-X25°		0.05	CCGT-09T3005-ENP-X25	ISO-1250-P	□	■		□	
		0.1	CCGT-09T301-ENP-X25	ISO-1251-P	□	■		□	
		0.2	CCGT-09T302-ENP-X25	ISO-1252-P	□	■		□	
		0.4	CCGT-09T304-ENP-X25	ISO-1254-P	□	■		□	
CCMT		0.2	CCMT-060202-EN-XF	ISO-1112	■	■	■		
		0.4	CCMT-060204-EN-XF	ISO-1114	■	■	■		
EN-XF		0.2	CCMT-09T302-EN-XF	ISO-1212	■	■	■		
		0.4	CCMT-09T304-EN-XF	ISO-1214	■	■	■		
		0.8	CCMT-09T308-EN-XF	ISO-1218	■	■	■		
CCMT		0.2	CCMT-060202-EN-MF	ISO-1122	■	■	■	■	
		0.4	CCMT-060204-EN-MF	ISO-1124	■	■	■	■	
EN-MF		0.2	CCMT-09T302-EN-MF	ISO-1222	■	■	■	■	
		0.4	CCMT-09T304-EN-MF	ISO-1224	■	■	■	■	
		0.8	CCMT-09T308-EN-MF	ISO-1228	■	■	■	■	
CCMT		0.4	CCMT-060204-EN-HF	ISO-1194			■		
		0.8	CCMT-060208-EN-HF	ISO-1198			■		
EN-HF		0.4	CCMT-09T304-EN-HF	ISO-1294			■		
		0.8	CCMT-09T308-EN-HF	ISO-1298			■		

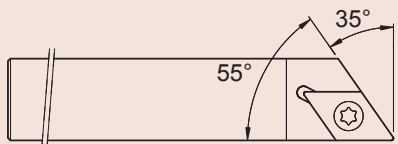
■ = Standard
□ = Sur demande / Auf Anfrage / On request

Outils de tournage 55°
55°-Drehwerkzeuge
turning tools 55°



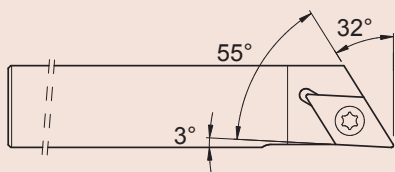
porte-outils
Halter
holders

L



ISO-Code	Art. N°	Ø X L	Plaquette WSP insert
SDACL-0808X-07	ISO-2312	8 x 8 x 115	DC..-0702..
SDACL-1010X-07	ISO-2313	10 x 10 x 115	DC..-0702..
SDACL-1212X-07	ISO-2314	12 x 12 x 130	DC..-0702..
SDACL-1212G-07	ISO-2314-90	12 x 12 x 90	DC..-0702..
SDACL-1616X-07	ISO-2315	16 x 16 x 130	DC..-0702..
SDACL-1616F-07	ISO-2315-75	16 x 16 x 75	DC..-0702..
SDACL-1212X-11	ISO-2414	12 x 12 x 130	DC..-11T3..
SDACL-1212G-11	ISO-2414-90	12 x 12 x 90	DC..-11T3..
SDACL-1616X-11	ISO-2415	16 x 16 x 130	DC..-11T3..
SDACL-1616F-11	ISO-2415-75	16 x 16 x 75	DC..-11T3..
SDACL-2020X-11	ISO-2416	20 x 20 x 120	DC..-11T3..

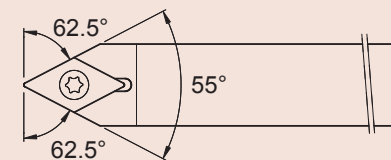
L



ISO-Code	Art. N°	Ø X L	Plaquette WSP insert
SDJCL-0808X-07	ISO-2332	8 x 8 x 115	DC..-0702..
SDJCL-1010X-07	ISO-2333	10 x 10 x 115	DC..-0702..
SDJCL-1212X-07	ISO-2334	12 x 12 x 130	DC..-0702..
SDJCL-1212G-07	ISO-2334-90	12 x 12 x 90	DC..-0702..
SDJCL-1616X-07	ISO-2335	16 x 16 x 130	DC..-0702..
SDJCL-1616F-07	ISO-2335-75	16 x 16 x 75	DC..-0702..
SDJCL-2020X-07	ISO-2336	20 x 20 x 120	DC..-0702..
SDJCL-1212X-11	ISO-2434	12 x 12 x 130	DC..-11T3..
SDJCL-1212G-11	ISO-2434-90	12 x 12 x 90	DC..-11T3..
SDJCL-1616X-11	ISO-2435	16 x 16 x 130	DC..-11T3..
SDJCL-1616F-11	ISO-2435-75	16 x 16 x 75	DC..-11T3..
SDJCL-2020X-11	ISO-2436	20 x 20 x 120	DC..-11T3..

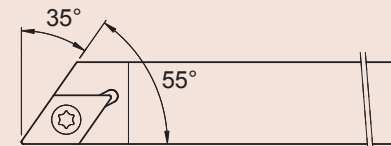
porte-outils
Halter
holders

N



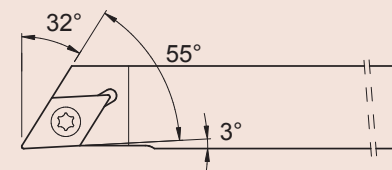
ISO-Code	Art. N°	Ø X L	Plaquette WSP insert
SDNCN-0808X-07	ISO-2302	8 x 8 x 115	DC..-0702..
SDNCN-1010X-07	ISO-2303	10 x 10 x 115	DC..-0702..
SDNCN-1212X-07	ISO-2304	12 x 12 x 130	DC..-0702..
SDNCN-1212G-07	ISO-2304-90	12 x 12 x 90	DC..-0702..
SDNCN-1616X-07	ISO-2305	16 x 16 x 130	DC..-0702..
SDNCN-1616F-07	ISO-2305-75	16 x 16 x 75	DC..-0702..
SDNCN-1212X-11	ISO-2404	12 x 12 x 130	DC..-11T3..
SDNCN-1212G-11	ISO-2404-90	12 x 12 x 90	DC..-11T3..
SDNCN-1616X-11	ISO-2405	16 x 16 x 130	DC..-11T3..
SDNCN-1616F-11	ISO-2405-75	16 x 16 x 75	DC..-11T3..
SDNCN-2020X-11	ISO-2406	20 x 20 x 120	DC..-11T3..

R



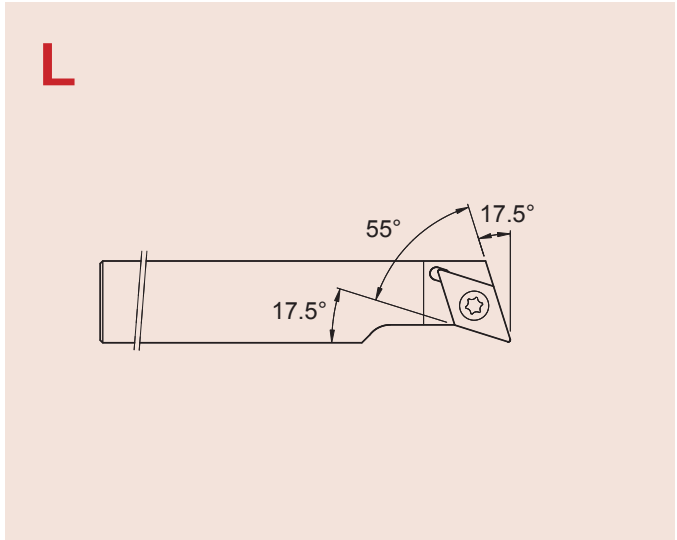
ISO-Code	Art. N°	Ø X L	Plaquette WSP insert
SDACR-0808X-07	ISO-2322	8 x 8 x 115	DC..-0702..
SDACR-1010X-07	ISO-2323	10 x 10 x 115	DC..-0702..
SDACR-1212X-07	ISO-2324	12 x 12 x 130	DC..-0702..
SDACR-1212G-07	ISO-2324-90	12 x 12 x 90	DC..-0702..
SDACR-1616X-07	ISO-2325	16 x 16 x 130	DC..-0702..
SDACR-1616F-07	ISO-2325-75	16 x 16 x 75	DC..-0702..
SDACR-1212X-11	ISO-2424	12 x 12 x 130	DC..-11T3..
SDACR-1212G-11	ISO-2424-90	12 x 12 x 90	DC..-11T3..
SDACR-1616X-11	ISO-2425	16 x 16 x 130	DC..-11T3..
SDACR-1616F-11	ISO-2425-75	16 x 16 x 75	DC..-11T3..
SDACR-2020X-11	ISO-2426	20 x 20 x 120	DC..-11T3..

R



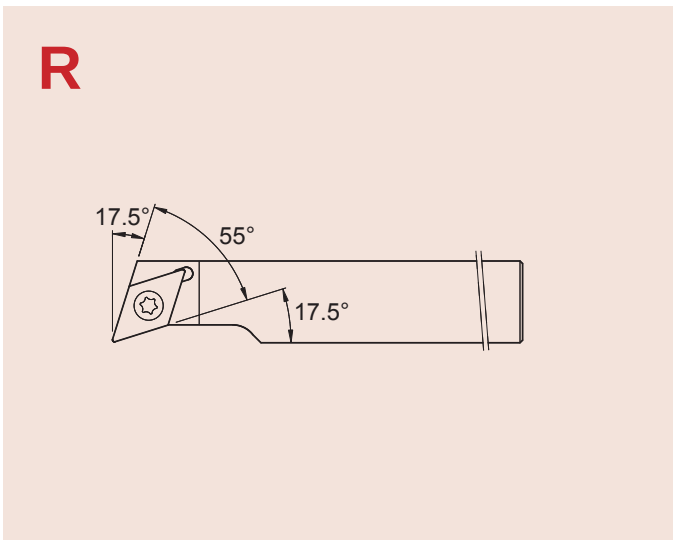
ISO-Code	Art. N°	Ø X L	Plaquette WSP insert
SDJCR-0808X-07	ISO-2342	8 x 8 x 115	DC..-0702..
SDJCR-1010X-07	ISO-2343	10 x 10 x 115	DC..-0702..
SDJCR-1212X-07	ISO-2344	12 x 12 x 130	DC..-0702..
SDJCR-1212G-07	ISO-2344-90	12 x 12 x 90	DC..-0702..
SDJCR-1616X-07	ISO-2345	16 x 16 x 130	DC..-0702..
SDJCR-1616F-07	ISO-2345-75	16 x 16 x 75	DC..-0702..
SDJCR-2020X-07	ISO-2346	20 x 20 x 120	DC..-0702..
SDJCR-1212X-11	ISO-2444	12 x 12 x 130	DC..-11T3..
SDJCR-1212G-11	ISO-2444-90	12 x 12 x 90	DC..-11T3..
SDJCR-1616X-11	ISO-2445	16 x 16 x 130	DC..-11T3..
SDLCR-1616F-11	ISO-2445-75	16 x 16 x 75	DC..-11T3..
SDJCR-2020X-11	ISO-2446	20 x 20 x 120	DC..-11T3..

porte-outils
Halter
holders

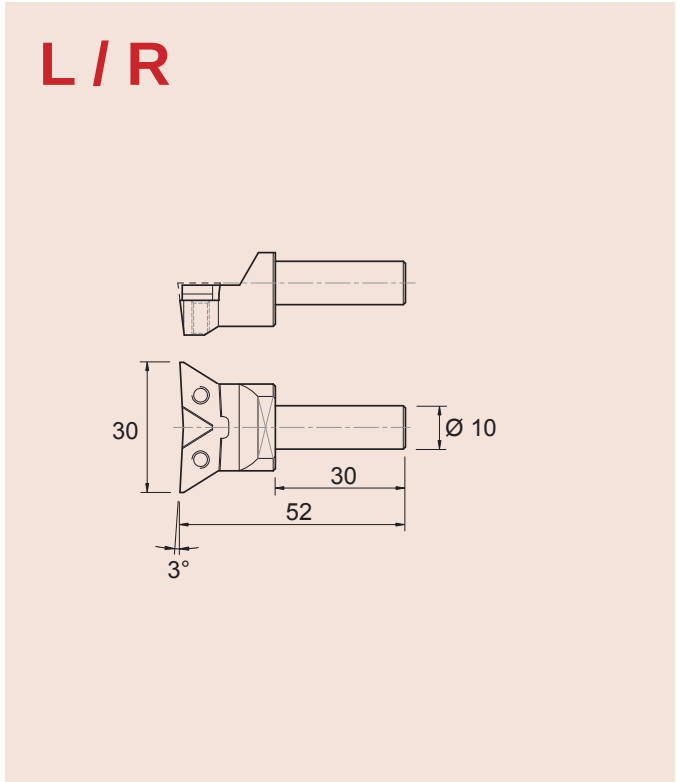


ISO-Code	Art. N°	Ø X L	Plaquette WSP insert
SDHCL-1010X-07	ISO-2353	10 x 10 x 115	DC..-0702..
SDHCL-1212X-07	ISO-2354	12 x 12 x 130	DC..-0702..
SDHCL-1212G-07	ISO-2354-90	12 x 12 x 90	DC..-0702..
SDHCL-1616X-07	ISO-2355	16 x 16 x 130	DC..-0702..
SDHCL-1616F-07	ISO-2355-75	16 x 16 x 75	DC..-0702..
SDHCL-1616X-11	ISO-2455	16 x 16 x 130	DC..-11T3..
SDHCL-1616F-11	ISO-2455-75	16 x 16 x 75	DC..-11T3..
SDHCL-2020X-11	ISO-2456	20 x 20 x 120	DC..-11T3..

porte-outils
Halter
holders



ISO-Code	Art. N°	Ø X L	Plaquette WSP insert
SDHCR-1010X-07	ISO-2363	10 x 10 x 115	DC..-0702..
SDHCR-1212X-07	ISO-2364	12 x 12 x 130	DC..-0702..
SDHCR-1212G-07	ISO-2364-90	12 x 12 x 90	DC..-0702..
SDHCR-1616X-07	ISO-2365	16 x 16 x 130	DC..-0702..
SDHCR-1616F-07	ISO-2365-75	16 x 16 x 75	DC..-0702..
SDHCR-1616X-11	ISO-2465	16 x 16 x 130	DC..-11T3..
SDHCR-1616F-11	ISO-2465-75	16 x 16 x 75	DC..-11T3..
SDHCR-2020X-11	ISO-2466	20 x 20 x 120	DC..-11T3..

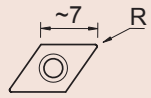
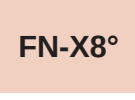
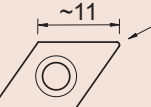
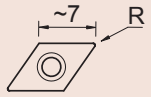
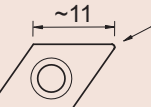
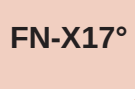
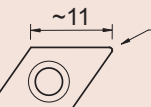
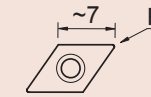
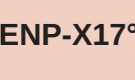


Art. N°	Plaquette WSP insert
ISO-2400-D10	DC..-11T3..

Vis et clés de rechange
Ersatzschrauben und Schlüsseln
Spare screws and keys

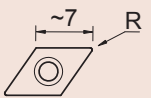
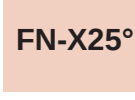
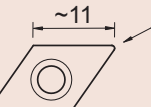
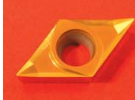
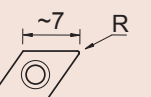
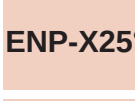
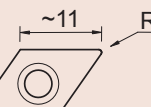
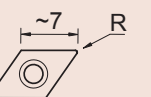
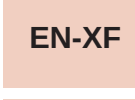
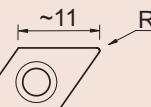
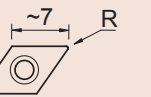
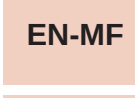
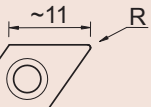
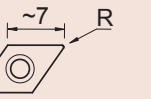
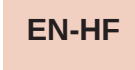
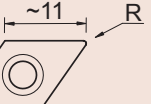
series ISO-2300	V-M2.5x7.8-T8	C-T8
series ISO-2400	V-M4x9-T15-ISO	C-T15

Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

						revêtu	beschichtet	coated	non revêtu unbeschichtet uncoated		
			R	ISO-Code	Art. N°	TiN	PVD TiAlN Tmax	CVD Ti3	K10	K20	
DCGT 		0.05	DCGT-0702005-FN-X8	ISO-1330	■	■				■	
		0.1	DCGT-070201-FN-X8	ISO-1331	■	■				■	
		0.2	DCGT-070202-FN-X8	ISO-1332	■	■				■	
		0.4	DCGT-070204-FN-X8	ISO-1334	■	■				■	
FN-X8° 		0.05	DCGT-11T3005-FN-X8	ISO-1430	■	■				■	
		0.1	DCGT-11T301-FN-X8	ISO-1431	■	■				■	
		0.2	DCGT-11T302-FN-X8	ISO-1432	■	■				■	
		0.4	DCGT-11T304-FN-X8	ISO-1434	■	■				■	
DCGT 		0.05	DCGT-0702005-ENP-X8	ISO-1330-P	□	■				□	
		0.1	DCGT-070201-ENP-X8	ISO-1331-P	□	■				□	
		0.2	DCGT-070202-ENP-X8	ISO-1332-P	□	■				□	
		0.4	DCGT-070204-ENP-X8	ISO-1334-P	□	■				□	
ENP-X8° 		0.05	DCGT-11T3005-ENP-X8	ISO-1430-P	□	■				□	
		0.1	DCGT-11T301-ENP-X8	ISO-1431-P	□	■				□	
		0.2	DCGT-11T302-ENP-X8	ISO-1432-P	□	■				□	
		0.4	DCGT-11T304-ENP-X8	ISO-1434-P	□	■				□	
DCGT 		0.05	DCGT-0702005-FN-X17	ISO-1340	■	■			□	■	
		0.1	DCGT-070201-FN-X17	ISO-1341	■	■				□	■
		0.2	DCGT-070202-FN-X17	ISO-1342	■	■				□	■
		0.4	DCGT-070204-FN-X17	ISO-1344	■	■				□	■
FN-X17° 		0.05	DCGT-11T3005FN-X17	ISO-1440	■	■			□	■	
		0.1	DCGT-11T301-FN-X17	ISO-1441	■	■				□	■
		0.2	DCGT-11T302-FN-X17	ISO-1442	■	■				□	■
		0.4	DCGT-11T304-FN-X17	ISO-1444	■	■				□	■
DCGT 		0.05	DCGT-0702005-ENP-X17	ISO-1340-P	□	■				□	
		0.1	DCGT-070201-ENP-X17	ISO-1341-P	□	■				□	
		0.2	DCGT-070202-ENP-X17	ISO-1342-P	□	■				□	
		0.4	DCGT-070204-ENP-X17	ISO-1344-P	□	■				□	
ENP-X17° 		0.05	DCGT-11T3005-ENP-X17	ISO-1440-P	□	■				□	
		0.1	DCGT-11T301-ENP-X17	ISO-1441-P	□	■				□	
		0.2	DCGT-11T302-ENP-X17	ISO-1442-P	□	■				□	
		0.4	DCGT-11T304-ENP-X17	ISO-1444-P	□	■				□	

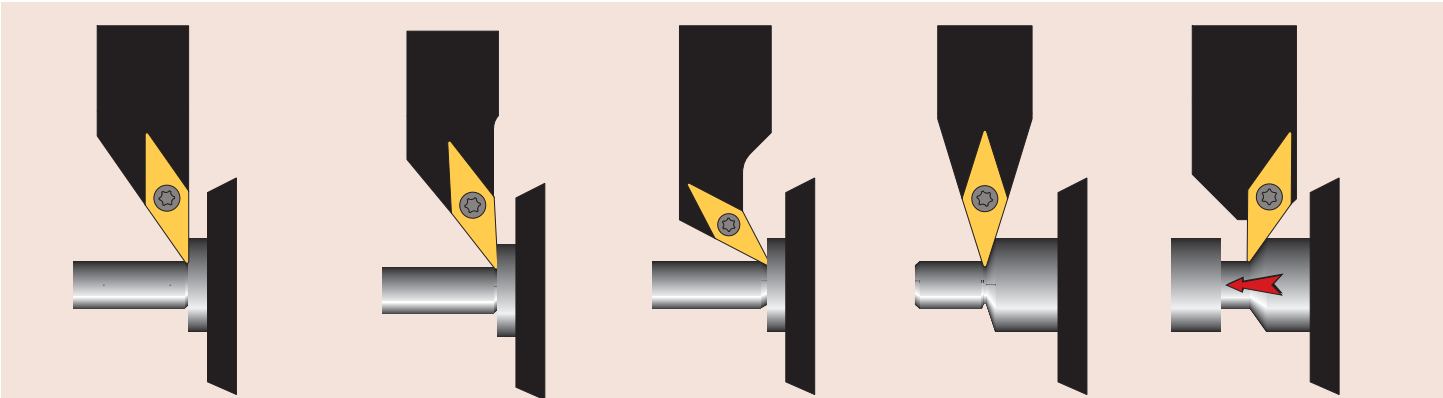
■ = Standard
□ = Sur demande / Auf Anfrage / On request

Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

					revêtu beschichtet coated			non revêtu unbeschichtet uncoated	
		R	ISO-Code	Art. N°	PVD			CVD	
					TiN	TiAlN	Tmax	Ti3	K10 K20
DCGT 		0.05	DCGT-0702005-FN-X25	ISO-1350	■	■			□ ■
		0.1	DCGT-070201-FN-X25	ISO-1351	■	■			□ ■
		0.2	DCGT-070202-FN-X25	ISO-1352	■	■			□ ■
		0.4	DCGT-070204-FN-X25	ISO-1354	■	■			□ ■
FN-X25° 		0.05	DCGT-11T3005-FN-X25	ISO-1450	■	■			□ ■
		0.1	DCGT-11T301-FN-X25	ISO-1451	■	■			□ ■
		0.2	DCGT-11T302-FN-X25	ISO-1452	■	■			□ ■
		0.4	DCGT-11T304-FN-X25	ISO-1454	■	■			□ ■
DCGT 		0.05	DCGT-0702005-ENP-X25	ISO-1350-P	□	■			□
		0.1	DCGT-070201-ENP-X25	ISO-1351-P	□	■			□
		0.2	DCGT-070202-ENP-X25	ISO-1352-P	□	■			□
		0.4	DCGT-070204-ENP-X25	ISO-1354-P	□	■			□
ENP-X25° 		0.05	DCGT-11T3005-ENP-X25	ISO-1450-P	□	■			□
		0.1	DCGT-11T301-ENP-X25	ISO-1451-P	□	■			□
		0.2	DCGT-11T302-ENP-X25	ISO-1452-P	□	■			□
		0.4	DCGT-11T304-ENP-X25	ISO-1454-P	□	■			□
DCMT 		0.2	DCMT-070202-EN-XF	ISO-1312	■	■		■	
		0.4	DCMT-070204-EN-XF	ISO-1314	■	■		■	
EN-XF 		0.2	DCMT-11T302-EN-XF	ISO-1412	■	■		■	
		0.4	DCMT-11T304-EN-XF	ISO-1414	■	■		■	
		0.8	DCMT-11T308-EN-XF	ISO-1418	■	■		■	
DCMT 		0.2	DCMT-070202-EN-MF	ISO-1322	■	■	■	■	
		0.4	DCMT-070204-EN-MF	ISO-1324	■	■	■	■	
EN-MF 		0.2	DCMT-11T302-EN-MF	ISO-1422	■	■	■	■	
		0.4	DCMT-11T304-EN-MF	ISO-1424	■	■	■	■	
		0.8	DCMT-11T308-EN-MF	ISO-1428	■	■	■	■	
DCMT 		0.4	DCMT-070204-EN-HF	ISO-1394				■	
		0.8	DCMT-070208-EN-HF	ISO-1398				■	
EN-HF 		0.4	DCMT-11T304-EN-HF	ISO-1494				■	
		0.8	DCMT-11T308-EN-HF	ISO-1498				■	

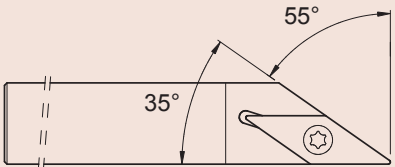
■ = Standard
□ = Sur demande / Auf Anfrage / On request

Outils de tournage 35°
35°-Drehwerkzeuge
turning tools 35°



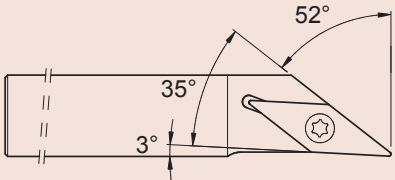
porte-outils
Halter
holders

L



ISO-Code	Art. N°	Ø X L	Plaquette WSP insert
SVACL-0808X-11	ISO-2612	8 x 8 x 115	VC...-1103..
SVACL-1010X-11	ISO-2613	10 x 10 x 115	VC...-1103..
SVACL-1212X-11	ISO-2614	12 x 12 x 130	VC...-1103..
SVACL-1212G-11	ISO-2614-90	12 x 12 x 90	VC...-1103..
SVACL-1616X-11	ISO-2615	16 x 16 x 130	VC...-1103..
SVACL-1616F-11	ISO-2615-75	16 x 16 x 75	VC...-1103..
SVACL-2020X-11	ISO-2616	20 x 20 x 120	VC...-1103..
SVACL-1212X-16	ISO-2714	12 x 12 x 130	VC...-1604..
SVACL-1212G-16	ISO-2714-90	12 x 12 x 90	VC...-1604..
SVACL-1616X-16	ISO-2715	16 x 16 x 130	VC...-1604..
SVACL-1616F-16	ISO-2715-75	16 x 16 x 75	VC...-1604..
SVACL-2020X-16	ISO-2716	20 x 20 x 120	VC...-1604..

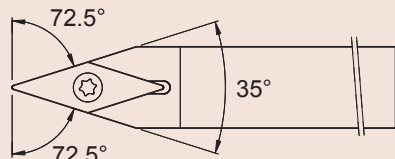
L



ISO-Code	Art. N°	Ø X L	Plaquette WSP insert
SVJCL-0808X-11	ISO-2632	8 x 8 x 115	VC...-1103..
SVJCL-1010X-11	ISO-2633	10 x 10 x 115	VC...-1103..
SVJCL-1212X-11	ISO-2634	12 x 12 x 130	VC...-1103..
SVJCL-1212G-11	ISO-2634-90	12 x 12 x 90	VC...-1103..
SVJCL-1616X-11	ISO-2635	16 x 16 x 130	VC...-1103..
SVJCL-1616F-11	ISO-2635-75	16 x 16 x 75	VC...-1103..
SVJCL-2020X-11	ISO-2636	20 x 20 x 120	VC...-1103..
SVJCL-1212X-16	ISO-2734	12 x 12 x 130	VC...-1604..
SVJCL-1212G-16	ISO-2734-90	12 x 12 x 90	VC...-1604..
SVJCL-1616X-16	ISO-2735	16 x 16 x 130	VC...-1604..
SVLCL-1616F-16	ISO-2735-75	16 x 16 x 75	VC...-1604..
SVJCL-2020X-16	ISO-2736	20 x 20 x 120	VC...-1604..

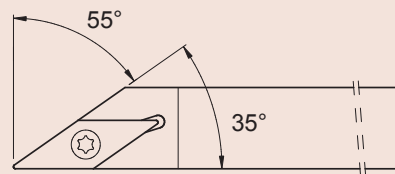
porte-outils
Halter
holders

N



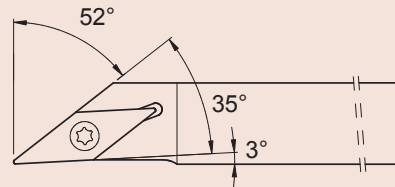
ISO-Code	Art. N°	Ø X L	Plaquette WSP insert
SVVCN-0808X-11	ISO-2602	8 x 8 x 115	VC...-1103..
SVVCN-1010X-11	ISO-2603	10 x 10 x 115	VC...-1103..
SVVCN-1212X-11	ISO-2604	12 x 12 x 130	VC...-1103..
SVVCN-1212G-11	ISO-2604-90	12 x 12 x 90	VC...-1103..
SVVCN-1616X-11	ISO-2605	16 x 16 x 130	VC...-1103..
SVVCN-1616F-11	ISO-2605-75	16 x 16 x 75	VC...-1103..
SVVCN-2020X-11	ISO-2606	20 x 20 x 120	VC...-1103..
SVVCN-1212X-16	ISO-2704	12 x 12 x 130	VC...-1604..
SVVCN-1212G-16	ISO-2704-90	12 x 12 x 90	VC...-1604..
SVVCN-1616X-16	ISO-2705	16 x 16 x 130	VC...-1604..
SVVCN-1616F-16	ISO-2705-75	16 x 16 x 75	VC...-1604..
SVVCN-2020X-16	ISO-2706	20 x 20 x 120	VC...-1604..

R



ISO-Code	Art. N°	Ø X L	Plaquette WSP insert
SVACR-0808X-11	ISO-2622	8 x 8 x 115	VC...-1103..
SVACR-1010X-11	ISO-2623	10 x 10 x 115	VC...-1103..
SVACR-1212X-11	ISO-2624	12 x 12 x 130	VC...-1103..
SVACR-1212G-11	ISO-2624-90	12 x 12 x 90	VC...-1103..
SVACR-1616X-11	ISO-2625	16 x 16 x 130	VC...-1103..
SVACR-1616F-11	ISO-2625-75	16 x 16 x 75	VC...-1103..
SVACR-2020X-11	ISO-2626	20 x 20 x 120	VC...-1103..
SVACR-1212X-16	ISO-2724	12 x 12 x 130	VC...-1604..
SVACR-1212G-16	ISO-2724-90	12 x 12 x 90	VC...-1604..
SVACR-1616X-16	ISO-2725	16 x 16 x 130	VC...-1604..
SVACR-1616F-16	ISO-2725-75	16 x 16 x 75	VC...-1604..
SVACR-2020X-16	ISO-2726	20 x 20 x 120	VC...-1604..

R

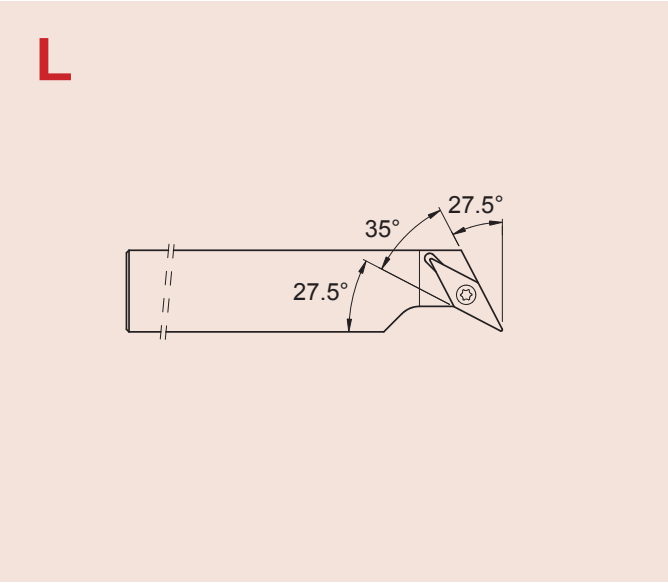


ISO-Code	Art. N°	Ø X L	Plaquette WSP insert
SVJCR-0808X-11	ISO-2642	8 x 8 x 115	VC...-1103..
SVJCR-1010X-11	ISO-2643	10 x 10 x 115	VC...-1103..
SVJCR-1212X-11	ISO-2644	12 x 12 x 130	VC...-1103..
SVJCR-1212G-11	ISO-2644-90	12 x 12 x 90	VC...-1103..
SVJCR-1616X-11	ISO-2645	16 x 16 x 130	VC...-1103..
SVJCR-1616F-11	ISO-2645-75	16 x 16 x 75	VC...-1103..
SVJCR-2020X-11	ISO-2646	20 x 20 x 120	VC...-1103..
SVJCR-1212X-16	ISO-2744	12 x 12 x 130	VC...-1604..
SVJCR-1212G-16	ISO-2744-90	12 x 12 x 90	VC...-1604..
SVJCR-1616X-16	ISO-2745	16 x 16 x 130	VC...-1604..
SVLCR-1616F-16	ISO-2745-75	16 x 16 x 75	VC...-1604..
SVJCR-2020X-16	ISO-2746	20 x 20 x 120	VC...-1604..

porte-outils

Halter

holders

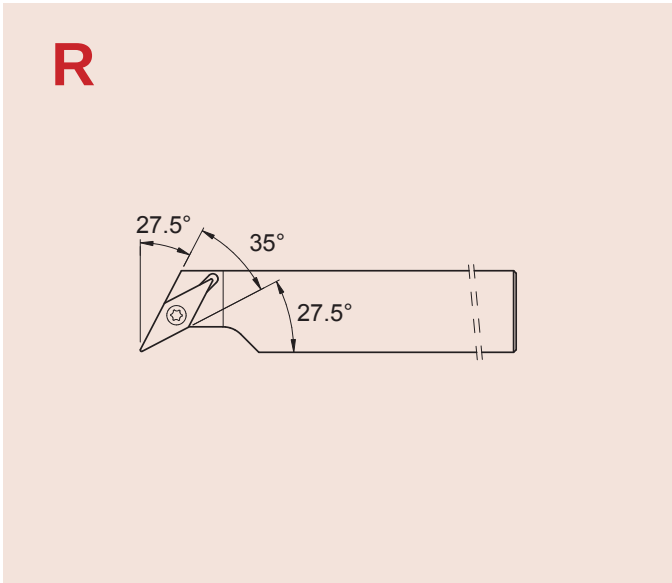


ISO-Code	Art. N°	Ø X L	Plaquette WSP insert
SVXCL-1616X-11	ISO-2655	16 x 16 x 130	VC...1103..
SVXCL-1616F-11	ISO-2655-75	16 x 16 x 75	VC...1103..
SVXCL-2020X-11	ISO-2656	20 x 20 x 120	VC...1103..

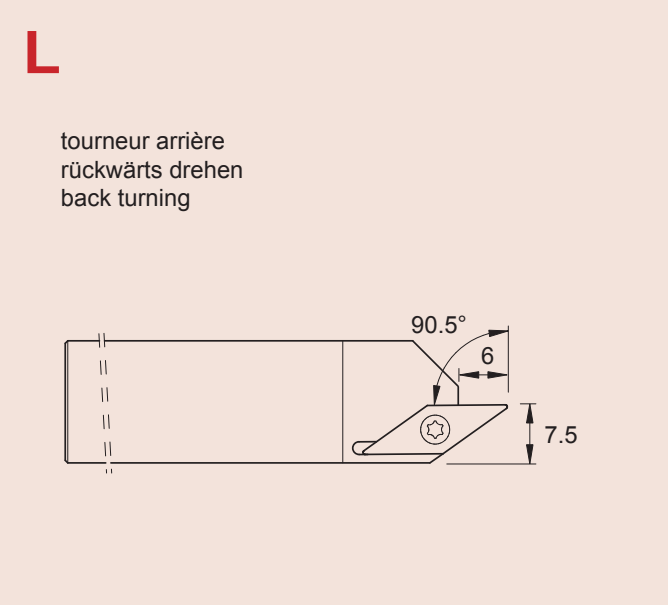
porte-outils

Halter

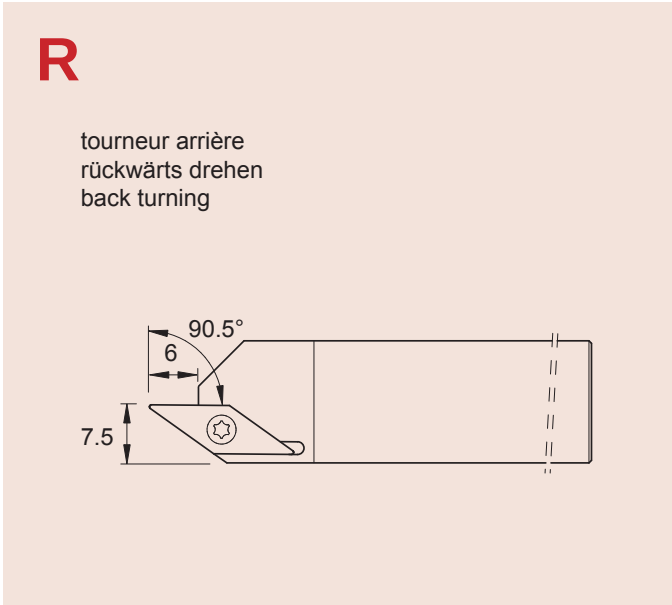
holders



ISO-Code	Art. N°	Ø X L	Plaquette WSP insert
SVXCR-1616X-11	ISO-2665	16 x 16 x 130	VC...1103..
SVXCR-1616F-11	ISO-2665-75	16 x 16 x 75	VC...1103..
SVXCR-2020X-11	ISO-2666	20 x 20 x 120	VC...1103..



ISO-Code	Art. N°	Ø X L	Plaquette WSP insert
SV-CL-1212X-11	ISO-2674	12 x 12 x 130	VCG.-1103..
SV-CL-1212G-11	ISO-2674-90	12 x 12 x 90	VCG.-1103..
SV-CL-1616X-11	ISO-2675	16 x 16 x 130	VCG.-1103..
SV-CL-1616F-11	ISO-2675-75	16 x 16 x 75	VCG.-1103..
SV-CL-2020X-11	ISO-2676	20 x 20 x 120	VCG.-1103..



ISO-Code	Art. N°	Ø X L	Plaquette WSP insert
SV-CR-1212X-11	ISO-2684	12 x 12 x 130	VCG.-1103..
SV-CR-1212G-11	ISO-2684-90	12 x 12 x 90	VCG.-1103..
SV-CR-1616X-11	ISO-2685	16 x 16 x 130	VCG.-1103..
SV-CR-1616F-11	ISO-2685-75	16 x 16 x 75	VCG.-1103..
SV-CR-2020X-11	ISO-2686	20 x 20 x 120	VCG.-1103..

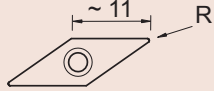
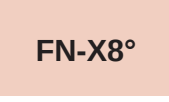
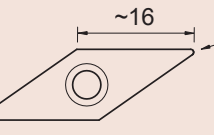
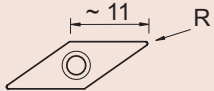
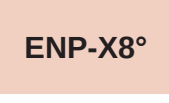
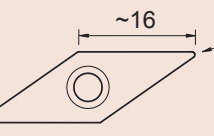
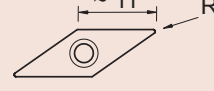
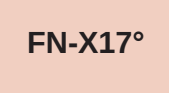
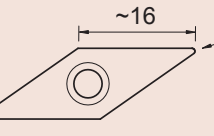
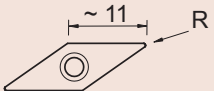
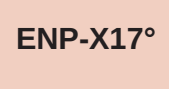
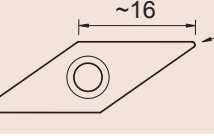
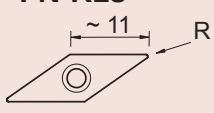
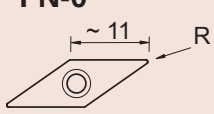
Vis et clés de rechange

Ersatzschrauben und Schlüsseln

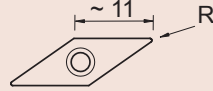
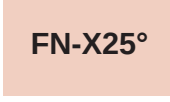
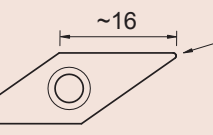
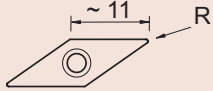
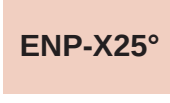
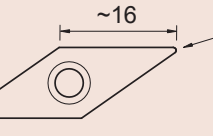
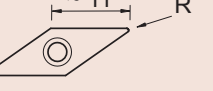
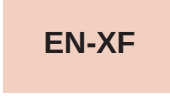
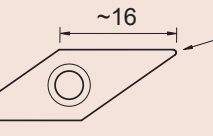
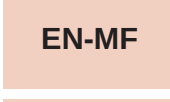
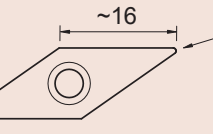
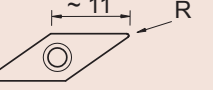
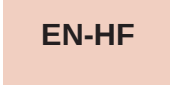
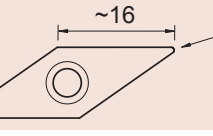
Spare screws and keys

series ISO-2600	V-M2.5x7.8-T8		C-T8	
series ISO-2700	V-M4x9-T15		C-T15	

Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

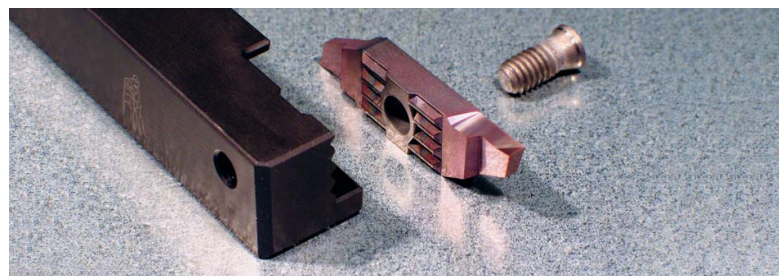
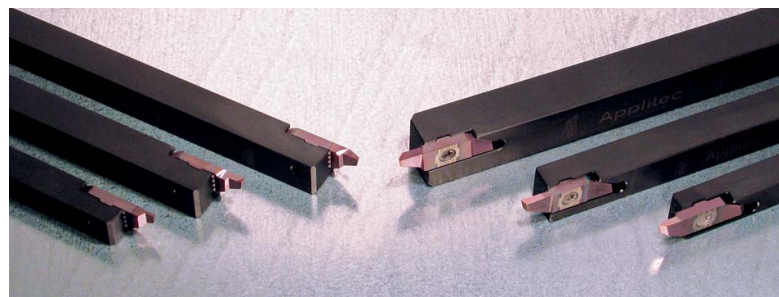
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					PVD		CVD	K10	K20
					TiN	TiAlN Tmax			
VCGT 		0.05	VCGT-1103005-FN-X8	ISO-1630	■	■		■	
		0.1	VCGT-110301-FN-X8	ISO-1631	■	■		■	
		0.2	VCGT-110302-FN-X8	ISO-1632	■	■		■	
		0.4	VCGT-110304-FN-X8	ISO-1634	■	■		■	
FN-X8° 		0.05	VCGT-1604005-FN-X8	ISO-1730	■	■		■	
		0.1	VCGT-160401-FN-X8	ISO-1731	■	■		■	
		0.2	VCGT-160402-FN-X8	ISO-1732	■	■		■	
		0.4	VCGT-160404-FN-X8	ISO-1734	■	■		■	
VCGT 		0.05	VCGT-1103005-ENP-X8	ISO-1630-P	□	■		□	
		0.1	VCGT-110301-ENP-X8	ISO-1631-P	□	■		□	
		0.2	VCGT-110302-ENP-X8	ISO-1632-P	□	■		□	
		0.4	VCGT-110304-ENP-X8	ISO-1634-P	□	■		□	
ENP-X8° 		0.05	VCGT-1604005-ENP-X8	ISO-1730-P	□	■		□	
		0.1	VCGT-160401-ENP-X8	ISO-1731-P	□	■		□	
		0.2	VCGT-160402-ENP-X8	ISO-1732-P	□	■		□	
		0.4	VCGT-160404-ENP-X8	ISO-1734-P	□	■		□	
VCGT 		0.05	VCGT-1103005-FN-X17	ISO-1640	■	■		□	■
		0.1	VCGT-110301-FN-X17	ISO-1641	■	■		□	■
		0.2	VCGT-110302-FN-X17	ISO-1642	■	■		□	■
		0.4	VCGT-110304-FN-X17	ISO-1644	■	■		□	■
FN-X17° 		0.05	VCGT-1604005FN-X17	ISO-1740	■	■		□	■
		0.1	VCGT-160401-FN-X17	ISO-1741	■	■		□	■
		0.2	VCGT-160402-FN-X17	ISO-1742	■	■		□	■
		0.4	VCGT-160404-FN-X17	ISO-1744	■	■		□	■
VCGT 		0.05	VCGT-1103005-ENP-X17	ISO-1640-P	□	■		□	
		0.1	VCGT-110301-ENP-X17	ISO-1641-P	□	■		□	
		0.2	VCGT-110302-ENP-X17	ISO-1642-P	□	■		□	
		0.4	VCGT-110304-ENP-X17	ISO-1644-P	□	■		□	
ENP-X17° 		0.05	VCGT-1604005-ENP-X17	ISO-1740-P	□	■		□	
		0.1	VCGT-160401-ENP-X17	ISO-1741-P	□	■		□	
		0.2	VCGT-160402-ENP-X17	ISO-1742-P	□	■		□	
		0.4	VCGT-160404-ENP-X17	ISO-1744-P	□	■		□	
VCGT 	FN-K18° 	0.05	VCGT-1103005-FN-K18	ISO-1680	■	■		■	
		0.1	VCGT-110301-FN-K18	ISO-1681	■	■		■	
		0.2	VCGT-110302-FN-K18	ISO-1682	■	■		■	
		0.4	VCGT-110304-FN-K18	ISO-1684	■	■		■	
VCGW 	FN-0° 	0.05	VCGW-1103005-FN-0	ISO-1670	■	■		■	
		0.1	VCGW-110301-FN-0	ISO-1671	■	■		■	
		0.2	VCGW-110302-FN-0	ISO-1672	■	■		■	
		0.4	VCGW-110304-FN-0	ISO-1674	■	■		■	

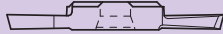
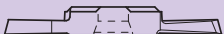
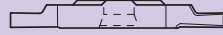
■ = Standard
□ = Sur demande / Auf Anfrage / On requestPlaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

		R	ISO-Code	Art. N°	revêtu beschichtet coated			non revêtu unbeschichtet uncoated	
					PVD		CVD	K10	K20
					TiN	TiAlN Tmax			
VCGT 		0.05	VCGT-1103005-FN-X25	ISO-1650	■	■		□	■
		0.1	VCGT-110301-FN-X25	ISO-1651	■	■		□	■
		0.2	VCGT-110302-FN-X25	ISO-1652	■	■		□	■
		0.4	VCGT-110304-FN-X25	ISO-1654	■	■		□	■
FN-X25° 		0.05	VCGT-1604005-FN-X25	ISO-1750	■	■		□	■
		0.1	VCGT-160401-FN-X25	ISO-1751	■	■		□	■
		0.2	VCGT-160402-FN-X25	ISO-1752	■	■		□	■
		0.4	VCGT-160404-FN-X25	ISO-1754	■	■		□	■
VCGT 		0.05	VCGT-1103005-ENP-X25	ISO-1650-P	□	■		□	
		0.1	VCGT-110301-ENP-X25	ISO-1651-P	□	■		□	
		0.2	VCGT-110302-ENP-X25	ISO-1652-P	□	■		□	
		0.4	VCGT-110304-ENP-X25	ISO-1654-P	□	■		□	
ENP-X25° 		0.05	VCGT-1604005-ENP-X25	ISO-1750-P	□	■		□	
		0.1	VCGT-160401-ENP-X25	ISO-1751-P	□	■		□	
		0.2	VCGT-160402-ENP-X25	ISO-1752-P	□	■		□	
		0.4	VCGT-160404-ENP-X25	ISO-1754-P	□	■		□	
VCMT 		0.2	VCMT-110302-EN-XF	ISO-1612	■	■	■		
		0.4	VCMT-110304-EN-XF	ISO-1614	■	■	■		
EN-XF 		0.4	VCMT-160404-EN-XF	ISO-1714	■	■	■		
		0.8	VCMT-160408-EN-XF	ISO-1718	■	■	■		
VCMT 		0.2	VCMT-110302-EN-MF	ISO-1622	■	■	■	■	
		0.4	VCMT-110304-EN-MF	ISO-1624	■	■	■	■	
EN-MF 		0.4	VCMT-160404-EN-MF	ISO-1724	■	■	■	■	
		0.8	VCMT-160408-EN-MF	ISO-1728	■	■	■	■	
VCMT 		0.4	VCMT-110304-EN-HF	ISO-1694			■		
		0.8	VCMT-110308-EN-HF	ISO-1698			■		
EN-HF 		0.4	VCMT-160404-EN-HF	ISO-1794			■		
		0.8	VCMT-160408-EN-HF	ISO-1798			■		

■ = Standard
□ = Sur demande / Auf Anfrage / On request

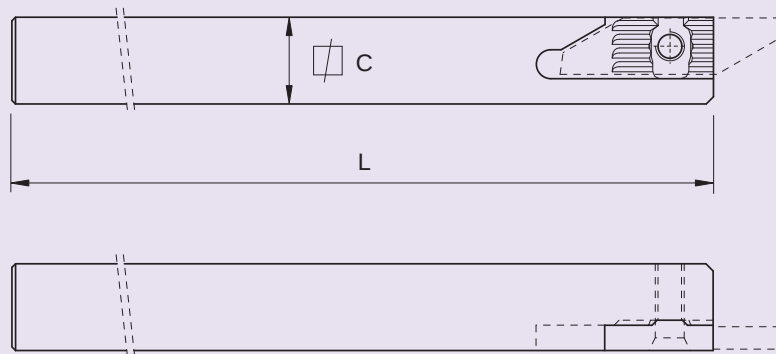
ECO-LINE



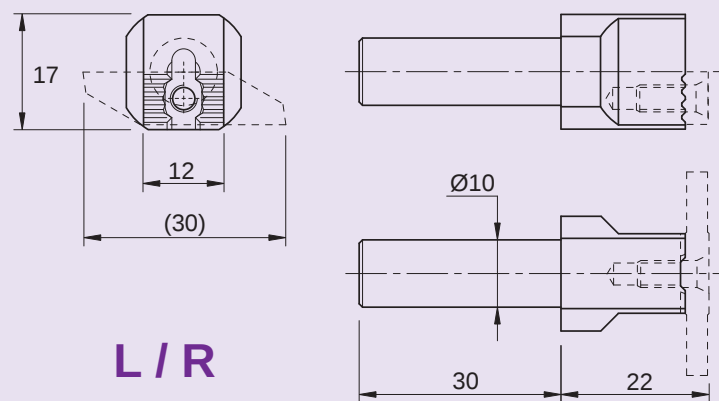
INDEX	page Seite page	
	L	R
	4.02	4.03
 	4.04	4.05
 	4.06	4.07
 	4.08	4.09

Paramètres de coupe indicatifs Empfohlene Schnittwerte Standard machining data						
Matière Werkstoff Material	Tournage Drehen Turning		Tronçonnage Abstechen Cut off		Indications pour premiers réglages Hinweise für die erste Einrichtung Indications for first setting	
	Vc (m/min)	F (mm/U)	Vc (m/min)	F (mm/U)	ébauche schruppen roughing	finition schlichten finishing
Acier de décolletage Automatenstahl Free-cutting steel	120 - 200	0.01 - 0.20	80 - 150	0.01 - 0.15	vitesse de coupe moyenne	vitesse de coupe élevée
Acier Stahl Steel < 600 N/mm2	80 - 160	0.01 - 0.18	70 - 120	0.01 - 0.12	avance élevée	avance faible
Acier Stahl Steel < 800 N/mm2	60 - 120	0.01 - 0.15	60 - 100	0.01 - 0.10	durchschnittliche Schnittgeschwindigkeit	hoher Schnittgeschwindigkeit
Acier Stahl Steel > 800 N/mm2	50 - 100	0.01 - 0.12	40 - 80	0.01 - 0.08	hoher Vorschub	niedriger Vorschub
Acier inoxydable Rostfreistahl Stainless steel	60 - 120	0.01 - 0.15	60 - 100	0.01 - 0.08	average cutting speed	high cutting speed
Aluminium	180 - 800	0.01 - 0.30	150 - 300	0.01 - 0.20	high cutting feed	low cutting feed
Titane Titan Titanium	30 - 70	0.01 - 0.12	30 - 50	0.01 - 0.06		
Cuivre, laiton, bronze Kupfer, Messing, Bronze Copper, brass, bronze	100 - 500	0.01 - 0.30	100 - 300	0.01 - 0.20		

porte-outils
Halter
holders



C	L	Art. N°
8 x 8	115	250-8
10 x 10	115	250-10
12 x 12	130	250-12
12 x 12	90	250-12-90
13 x 13	130	250-13
16 x 16	130	250-16
16 x 16	75	250-16-75
20 x 20	120	250-20



Art. N°
260 / 250-D10

Vis et clés de rechange
Ersatzschrauben und Schlüssel
Spare screws and keys

porte-outils
Halter
holders

250-... / 260-...
250-8 / 260-8
250RC / 260-C

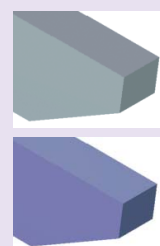
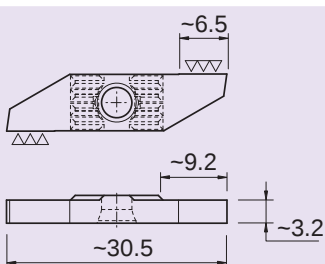
vis
Schrauben
screw

V-M4x9-T15
V-M3.5x7-T15
V-M4x7.3-T15

clé
Schlüssel
key

C-T15

plaquette ébauche
VHM-Rohling
blank insert



sans revêtement
unbeschichtet
uncoated

revêtu
beschichtet
coated

Art. N°

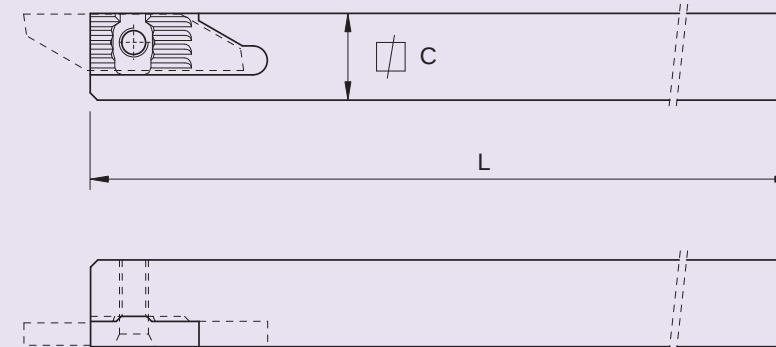
251-E-N

251-E-AP202

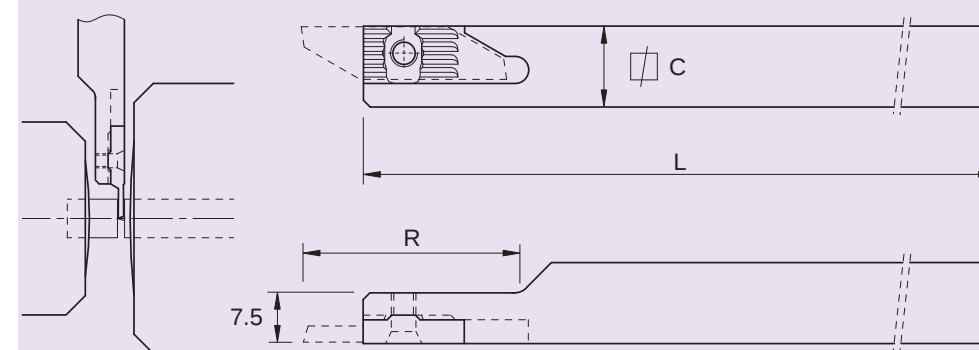
AP202

revêtement PVD universel haute performance (TiAlN)
universelle hochleistungs PVD Beschichtung (TiAlN)
universal high performance PVD coating (TiAlN)

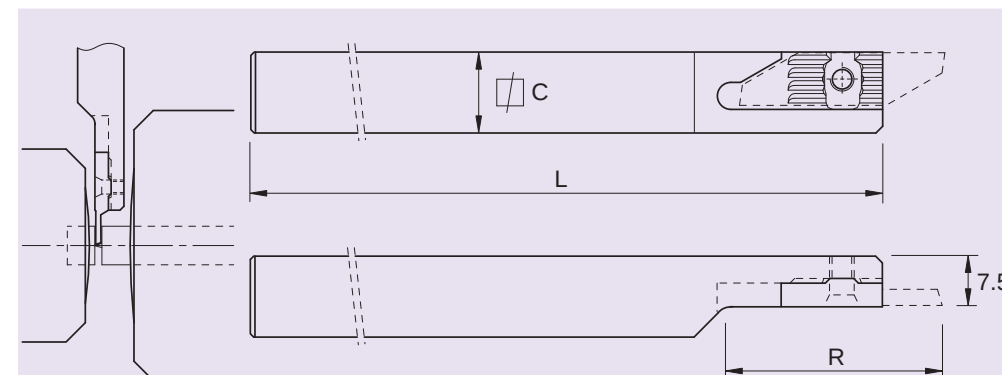
porte-outils
Halter
holders



C	L	Art. N°
8 x 8	115	260-8
10 x 10	115	260-10
12 x 12	130	260-12
12 x 12	90	260-12-90
13 x 13	130	260-13
16 x 16	130	260-16
16 x 16	75	260-16-75
20 x 20	120	260-20



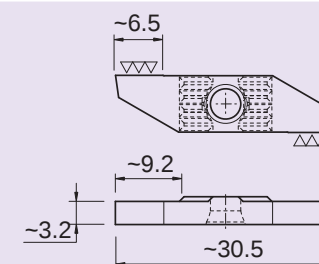
C	L	R	Art. N°
12 x 12	130	30	260-C-12



C	L	R	Art. N°
12 x 12	130	30	250RC-12
16 x 16	130	40	250RC-16

utiliser des plaquettes type 251R
WSP Typ 251R verwenden
use inserts type 251R

plaquette ébauche
VHM-Rohling
blank insert



sans revêtement
unbeschichtet
uncoated

revêtu
beschichtet
coated

Art. N°

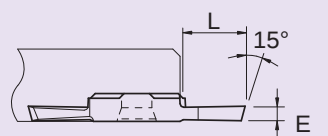
261-E-N

261-E-AP202

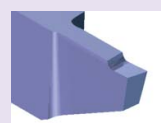
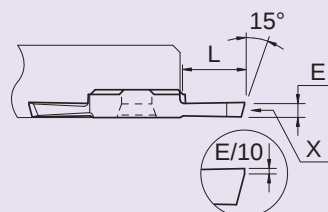
AP202

revêtement PVD universel haute performance (TiAlN)
universelle hochleistungs PVD Beschichtung (TiAlN)
universal high performance PVD coating (TiAlN)

Tronçonnage
Abstechen
Cut off

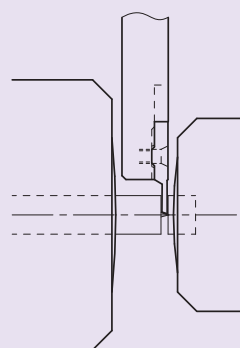


E	L	Art. N°
0.8	4	251-0.8-AP202
1.0	5	251-1.0-AP202
1.2	5	251-1.2-AP202
1.5	7	251-1.5-AP202
2.0	8.5	251-2.0-AP202
2.5	8.5	251-2.5-AP202

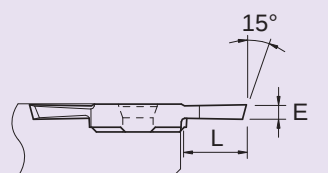


E	L	Art. N°
1.5	7	251xf-1.5-AP202
2.0	8.5	251xf-2.0-AP202

coupe à gauche déportée
versetztes Linksschneiden
left cut off line



Utiliser des porte-outils série 260
Halter Serie 260 verwenden
Use 260 series holders

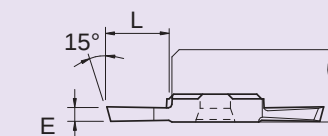


E	L	Art. N°
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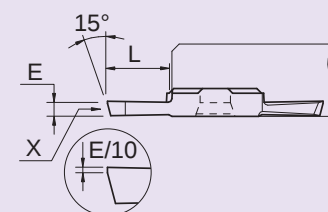
AP202

revêtement PVD universel haute performance (TiAlN)
universelle hochleistungs PVD Beschichtung (TiAlN)
universal high performance PVD coating (TiAlN)

Tronçonnage
Abstechen
Cut off

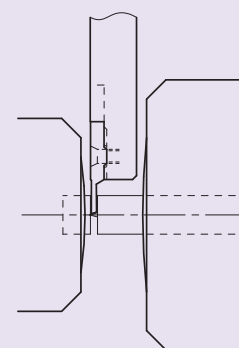


E	L	Art. N°
0.8	4	261-0.8-AP202
1.0	5	261-1.0-AP202
1.2	5	261-1.2-AP202
1.5	7	261-1.5-AP202
2.0	8.5	261-2.0-AP202
2.5	8.5	261-2.5-AP202

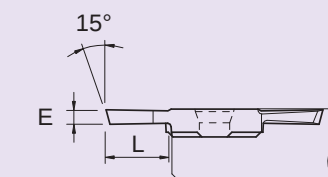
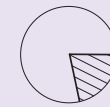


E	L	Art. N°
1.5	7	261xf-1.5-AP202
2.0	8.5	261xf-2.0-AP202

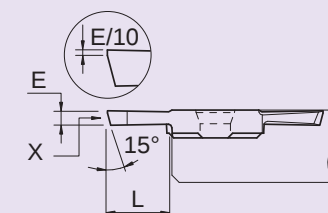
coupe à droite déportée
versetztes Rechtsschneiden
right cut off line



Utiliser des porte-outils série 250
Halter Serie 250 verwenden
Use 250 series holders



E	L	Art. N°
1.5	7	251R-1.5-AP202
2.0	8.5	251R-2.0-AP202

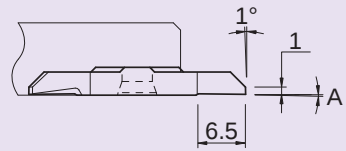


E	L	Art. N°
1.5	7	251Rxf-1.5-AP202
2.0	8.5	251Rxf-2.0-AP202

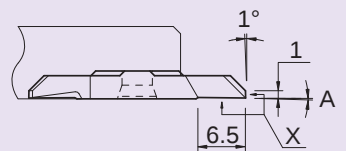
AP202

revêtement PVD universel haute performance (TiAlN)
universelle hochleistungs PVD Beschichtung (TiAlN)
universal high performance PVD coating (TiAlN)

tourneur avant
vorwärts drehen
front turning

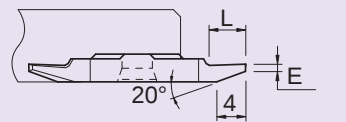


A	Art. N°
0°	252-AP202
2°	252-2°-AP202

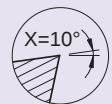
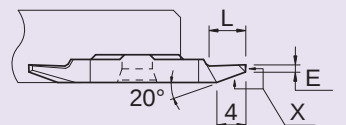


A	Art. N°
0°	252x-AP202
2°	252x-2°-AP202

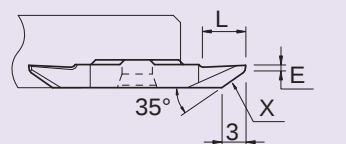
tourneur arrière
rückwärts drehen
back turning



E	L	Art. N°
0.5	4	253-0.5-AP202
1.0	5	253-1.0-AP202



E	L	Art. N°
1.0	5	253x-1.0-AP202

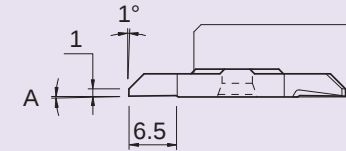


E	L	Art. N°
~1.0	6	253vx-8°-AP202

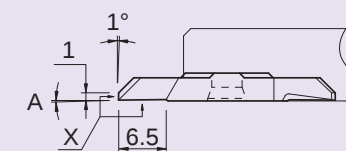
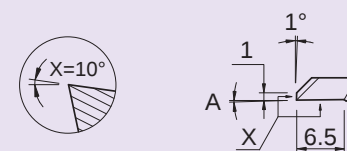
AP202

revêtement PVD universel haute performance (TiAlN)
universelle hochleistungs PVD Beschichtung (TiAlN)
universal high performance PVD coating (TiAlN)

tourneur avant
vorwärts drehen
front turning

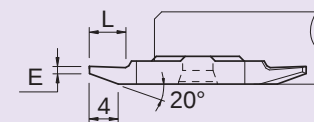
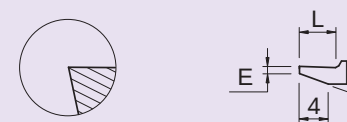


A	Art. N°
0°	262-AP202
2°	262-2°-AP202

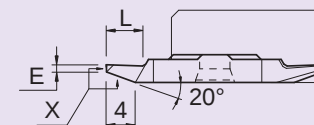
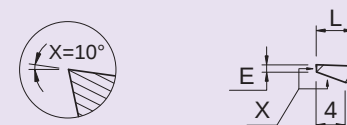


A	Art. N°
0°	262x-AP202
2°	262x-2°-AP202

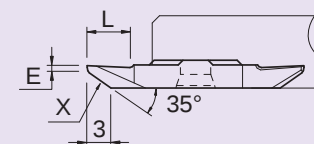
tourneur arrière
rückwärts drehen
back turning



E	L	Art. N°
0.5	4	263-0.5-AP202
1.0	5	263-1.0-AP202



E	L	Art. N°
1.0	5	263x-1.0-AP202

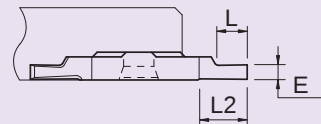


E	L	Art. N°
~1.0	6	263vx-8°-AP202

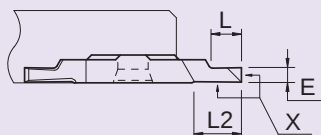
AP202

revêtement PVD universel haute performance (TiAlN)
universelle hochleistungs PVD Beschichtung (TiAlN)
universal high performance PVD coating (TiAlN)

foncer-tourner
einstechen und drehen
grooving and turning

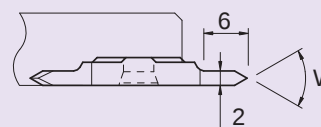


E	L	L2	Art. N°
0.8	2	4	254-0.8-AP202
1.0	2.5	4	254-1.0-AP202
1.2	3	4	254-1.2-AP202
1.5	3	4	254-1.5-AP202
2.0	4	6.5	254-2.0-AP202
2.5	6	6.5	254-2.5-AP202
3.0	6.5	6.5	254-3.0-AP202



E	L	L2	Art. N°
1.0	2.5	4	254x-1.0-AP202
1.2	3	4	254x-1.2-AP202
1.5	3	4	254x-1.5-AP202
2.0	4	6.5	254x-2.0-AP202
2.5	6	6.5	254x-2.5-AP202
3.0	6.5	6.5	254x-3.0-AP202

fileter
Gewinde drehen
threading

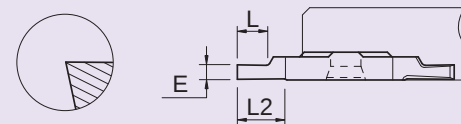


W	Art. N°
60°	256-60-2-AP202

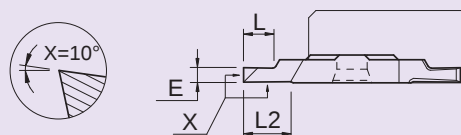
AP202

revêtement PVD universel haute performance (TiAlN)
universelle hochleistungs PVD Beschichtung (TiAlN)
universal high performance PVD coating (TiAlN)

foncer-tourner
einstechen und drehen
grooving and turning

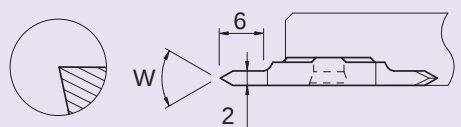


E	L	L2	Art. N°
0.8	2	4	264-0.8-AP202
1.0	2.5	4	264-1.0-AP202
1.2	3	4	264-1.2-AP202
1.5	3	4	264-1.5-AP202
2.0	4	6.5	264-2.0-AP202
2.5	6	6.5	264-2.5-AP202
3.0	6.5	6.5	264-3.0-AP202



E	L	L2	Art. N°
1.0	2.5	4	264x-1.0-AP202
1.2	3	4	264x-1.2-AP202
1.5	3	4	264x-1.5-AP202
2.0	4	6.5	264x-2.0-AP202
2.5	6	6.5	264x-2.5-AP202
3.0	6.5	6.5	264x-3.0-AP202

fileter
Gewinde drehen
threading



W	Art. N°
60°	266-60-2-AP202

AP202

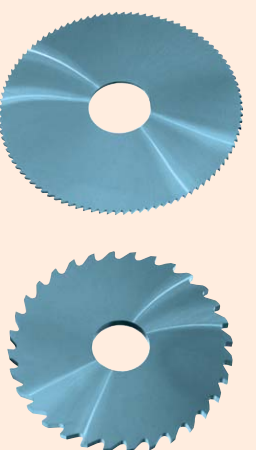
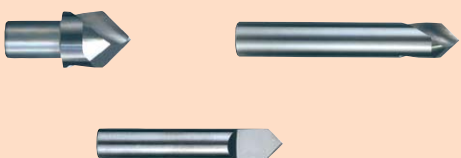
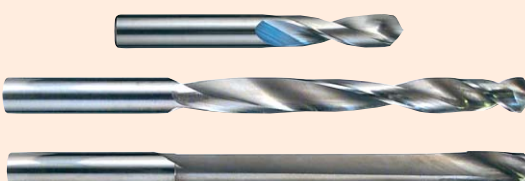
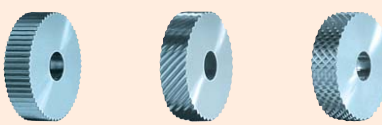
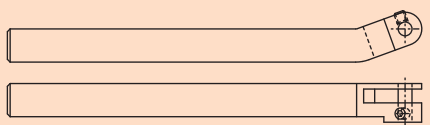
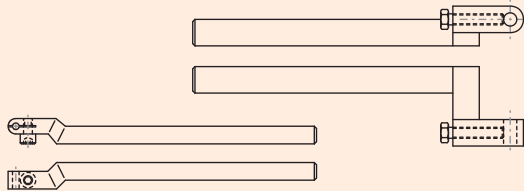
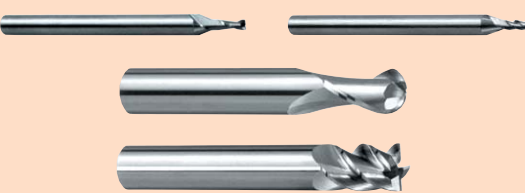
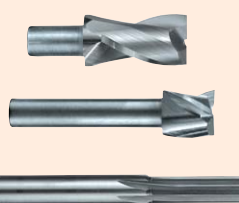
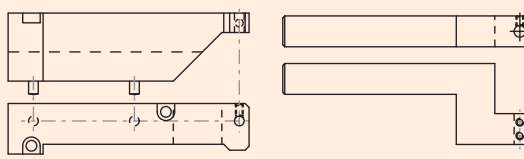
revêtement PVD universel haute performance (TiAlN)
universelle hochleistungs PVD Beschichtung (TiAlN)
universal high performance PVD coating (TiAlN)

TOOLING-LINE



INDEX

TOOLING-LINE

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	5.23		

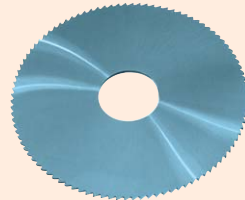
Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining dataForets en métal dur
VHM-Bohrer
Solid carbide drillsAlésoirs en métal dur
VHM-Reibahlen
Solid carbide reamers

matière Werkstoff material	lubrifiant* Kühlung* coolant*	Vc m / min	avance par tour Vorschub per Umdrehung Feed per rotation mm / 			Vc m / min	avance par tour Vorschub per Umdrehung Feed per rotation mm / 		
			Ø1-4	Ø 4-8	Ø 8-12		Ø 1-4	Ø 4-8	Ø 8-12
acier de décolletage Automatenstahl free-cutting steel	O / E	90 - 120	0.02 - 0.05	0.05 - 0.07	0.07 - 0.10	15 - 22	0.12	0.16	0.25
acier Stahl steel < 600 N/mm2	O / E	80 - 110	0.01 - 0.04	0.04 - 0.06	0.06 - 0.08	10 - 18	0.10	0.15	0.20
acier Stahl steel < 800 N/mm2	O / E	70 - 100	0.01 - 0.03	0.03 - 0.05	0.05 - 0.07	8 - 15	0.10	0.13	0.16
acier Stahl steel < 1000 N/mm2	O / E	60 - 80	0.01 - 0.03	0.03 - 0.05	0.05 - 0.07	6 - 12	0.07	0.10	0.13
acier Stahl steel > 1000 N/mm2	O / E	30 - 50	0.01 - 0.02	0.02 - 0.04	0.04 - 0.06	5 - 10	0.05	0.08	0.10
acier inoxydable rostfreier Stahl stainless steel	O / E	30 - 50	0.01 - 0.03	0.03 - 0.05	0.05 - 0.08	8 - 12	0.04	0.06	0.08
acier réfractaire warmfester Stahl heat resistant steel	O / E	20 - 40	0.01 - 0.02	0.02 - 0.03	0.03 - 0.05	5 - 10	0.03	0.05	0.07
fonte Gusseisen cast iron	A / E	70 - 100	0.03 - 0.05	0.05 - 0.07	0.07 - 0.10	8 - 12	0.20	0.25	0.30
Aluminium Si < 12%	O / E	100 - 150	0.04 - 0.06	0.06 - 0.10	0.10 - 0.14	20 - 35	0.20	0.25	0.30
Aluminium Si > 12 %	O / E	50 - 100	0.02 - 0.04	0.04 - 0.06	0.06 - 0.09	10 - 22	0.10	0.15	0.20
titane Titan titanium	O / E	30 - 50	0.01 - 0.02	0.02 - 0.04	0.04 - 0.08	6 - 10	0.08	0.10	0.12
cuivre, laiton, bronze Kupfer, Messing, Bronze copper, brass, bronze	A / O / E	60 - 100	0.03 - 0.06	0.06 - 0.10	0.10 - 0.15	15 - 40	0.15	0.20	0.30
thermoplastique Thermoplaste thermoplastics	A	80 - 150	0.03 - 0.04	0.04 - 0.06	0.06 - 0.08	15 - 35	0.10	0.15	0.20
duroplastique Duroplaste duroplastics	A	60 - 120	0.03 - 0.05	0.05 - 0.08	0.08 - 0.12	15 - 35	0.10	0.15	0.20

* O= huile de coupe /Schneidöl / cutting oil

* E = Emulsion

* A= sec (air comprimé) / Trocken (Pressluft) / Dry (air)

avec revêtement TiN / TiCN / TiALN, augmenter les valeurs de 20%
mit TiN / TiCN / TiALN Beschichtung, Daten um 20% erhöhen
with TiN / TiCN / TiALN coating, increase data by 20 %Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining dataFraises en bout en métal dur
VHM-Schaftfräser
Solid carbide end millsFraises circulaires en métal dur
VHM-Kreissägeblätter
Solid carbide slitting saws

matière Werkstoff material	lubrifiant* Kühlung* coolant*	Vc m / min	avance par dent Vorschub pro Zahn Feed per tooth mm / Z			Vc m / min	choix de la denture / avance Verzahnungswahl / Vorschub teeth selection / cutting feed
			Ø1-4	Ø 4-8	Ø 8-12		
acier de décolletage Automatenstahl free-cutting steel	O / E	100 - 150	0.03	0.04	0.05	120 - 240	Type 1101 Pour usinage peu profond ou longueur à fendre faible. Avance par dent : 0.005 - 0.05**
acier Stahl steel < 600 N/mm2	O / E	80 - 120	0.03	0.04	0.05	100 - 200	Für geringe Bearbeitungstiefen oder kurze Schlitzlängen.
acier Stahl steel < 800 N/mm2	O / E	70 - 100	0.02	0.03	0.04	80 - 160	Vorschub pro Zahn : 0.005-0.05**
acier Stahl steel < 1000 N/mm2	O / E	50 - 80	0.01	0.02	0.03	60 - 120	For low machining depth or short slots.
acier Stahl steel > 1000 N/mm2	O / E	30 - 60	0.01	0.02	0.03	40 - 80	Feed per teeth : 0.005 - 0.05**
acier inoxydable rostfreier Stahl stainless steel	O / E	40 - 80	0.01	0.02	0.03	50 - 100	Type 1102 Pour usinage profond ou grande longueur à fendre.
acier réfractaire warmfester Stahl heat resistant steel	O / E	20 - 50	0.01	0.02	0.03	25 - 60	Avance par dent : 0.01 - 0.1**
fonte Gusseisen cast iron	A / E	60 - 100	0.02	0.04	0.06	60 - 120	Für grosse Bearbeitungstiefen oder grosse Schlitzlängen.
Aluminium Si < 12%	O / E	250 - 400	0.03	0.06	0.10	150 - 600	Vorschub pro Zahn : 0.01-0.1**
Aluminium Si > 12 %	O / E	120 - 250	0.02	0.05	0.08	80 - 300	For deep machining or long slots.
titane Titan titanium	O / E	25 - 50	0.01	0.02	0.03	30 - 60	Feed per teeth : 0.01 - 0.1**
cuivre, laiton, bronze Kupfer, Messing, Bronze copper, brass, bronze	A / O / E	100 - 300	0.02	0.04	0.06	80 - 300	Type 1103 Pour usinage de pièces fragiles ou fines.
thermoplastique Thermoplaste thermoplastics	A	120 - 200	0.03	0.06	0.09	200 - 700	Avance par dent : 0.002 - 0.02**
duroplastique Duroplaste duroplastics	A	80 - 120	0.03	0.05	0.08	150 - 600	Für die Bearbeitung von empfindlichen oder dünnwandigen Werkstücken.

* O= huile de coupe /Schneidöl / cutting oil

* E = Emulsion

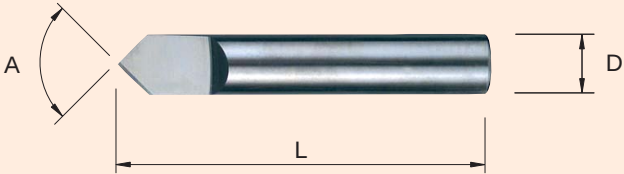
* A= sec (air comprimé) / Trocken (Pressluft) / Dry (air)

avec revêtement TiN / TiCN / TiALN, augmenter les valeurs de 20%
mit TiN / TiCN / TiALN Beschichtung, Daten um 20% erhöhen
with TiN / TiCN / TiALN coating, increase data by 20 %

Forets à centrer plat
Zentrier-Flachbohrer
Centering flat drills

Type 1200

L

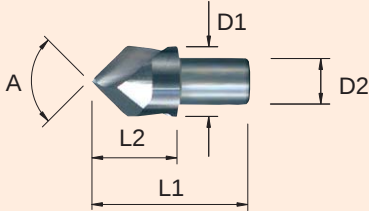


				métal dur Vollhartmetall solid carbide
	A	D	L	Art. N°
90°	3	13		1200-313
90°	3	17		1200-317
90°	3	38		1200-338
90°	4	40		1200-440
90°	5	50		1200-550
90°	6	50		1200-650
90°	8	58		1200-858
90°	10	66		1200-1066
90°	12	73		1200-1273

Forets à centrer hélicoïdaux
Zentrier-Spiralbohrer
Centering twist drills

Type 1500

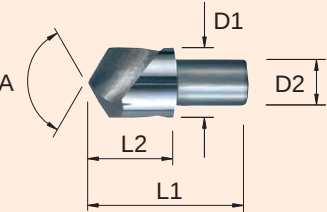
L



					HSS	métal dur Vollhartmetall solid carbide
A	D1	D2	L1	L2	Art. N°	Art. N°
90°	5	4	17	8	1500-5-HSS	1500-5-MD
90°	7	5	17	8	1500-7-HSS	1500-7-MD
90°	10	6	22	10	1500-10-HSS	1500-10-MD
90°	12	8	26	12	1500-12-HSS	1500-12-MD

Type 1510

L



120°	5	4	17	8	1510-5-HSS	1510-5-MD
120°	7	5	17	8	1510-7-HSS	1510-7-MD
120°	10	6	22	10	1510-10-HSS	1510-10-MD
120°	12	8	26	12	1510-12-HSS	1510-12-MD

Revêtement sur demande
Beschichtung auf Anfrage
Coating on request

Forets à centrer plat
Zentrier-Flachbohrer
Centering flat drills

Type 2200

R

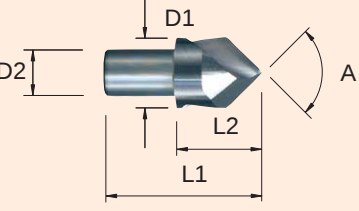


				métal dur Vollhartmetall solid carbide
	A	D	L	Art. N°
90°	3	13		2200-313
90°	3	17		2200-317
90°	3	38		2200-338
90°	4	40		2200-440
90°	5	50		2200-550
90°	6	50		2200-650
90°	8	58		2200-858
90°	10	66		2200-1066
90°	12	73		2200-1273

Forets à centrer hélicoïdaux
Zentrier-Spiralbohrer
Centering twist drills

Type 2520

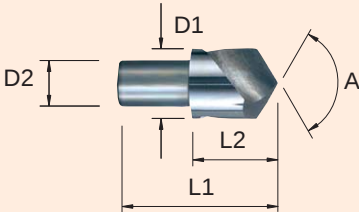
R



					HSS	métal dur Vollhartmetall solid carbide
A	D1	D2	L1	L2	Art. N°	Art. N°
90°	5	4	17	8	2520-5-HSS	2520-5-MD
90°	7	5	17	8	2520-7-HSS	2520-7-MD
90°	10	6	22	10	2520-10-HSS	2520-10-MD
90°	12	8	26	12	2520-12-HSS	2520-12-MD

Type 2530

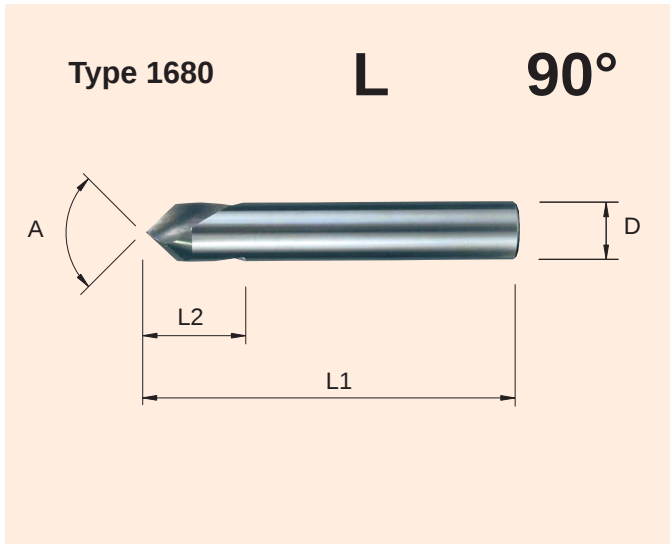
R



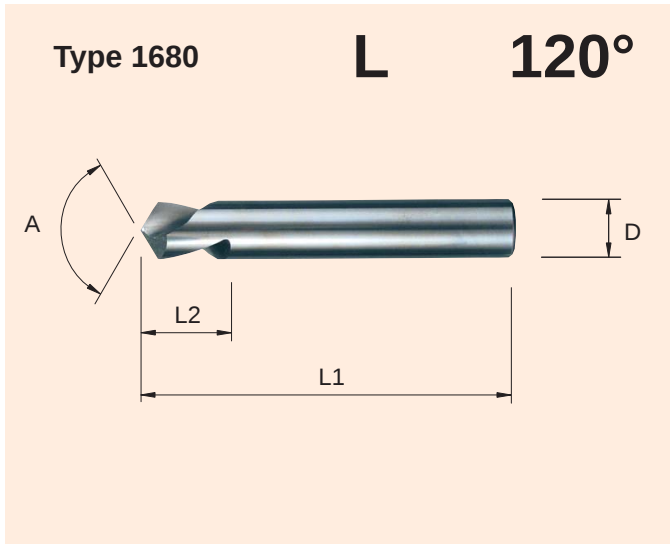
120°	5	4	17	8	2530-5-HSS	2530-5-MD
120°	7	5	17	8	2530-7-HSS	2530-7-MD
120°	10	6	22	10	2530-10-HSS	2530-10-MD
120°	12	8	26	12	2530-12-HSS	2530-12-MD

Revêtement sur demande
Beschichtung auf Anfrage
Coating on request

Forets à centrer NC
NC-Zentrierbohrer
Forets à centrer NC



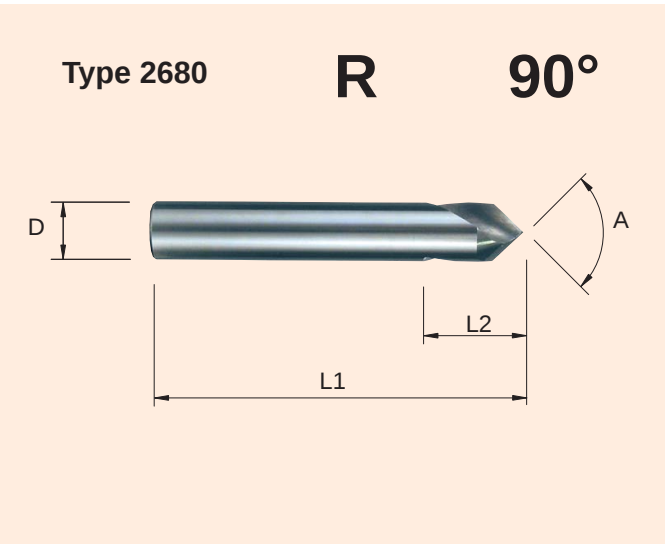
A	D1	L1	L2	HSS	métal dur Vollhartmetall solid carbide
				Art. N°	Art. N°
90°	2	38	8	---	1680-2-90-MD
90°	2.5	38	8	---	1680-2.5-90-MD
90°	3	38	10	1680-3-90-HSS	1680-3-90-MD
90°	4	50	12	1680-4-90-HSS	1680-4-90-MD
90°	5	50	15	1680-5-90-HSS	1680-5-90-MD
90°	6	57	16	1680-6-90-HSS	1680-6-90-MD
90°	8	63	20	1680-8-90-HSS	1680-8-90-MD
90°	10	72	22	1680-10-90-HSS	1680-10-90-MD
90°	12	73	24	1680-12-90-HSS	1680-12-90-MD
90°	16	82	26	---	1680-16-90-MD
90°	20	92	30	---	1680-20-90-MD



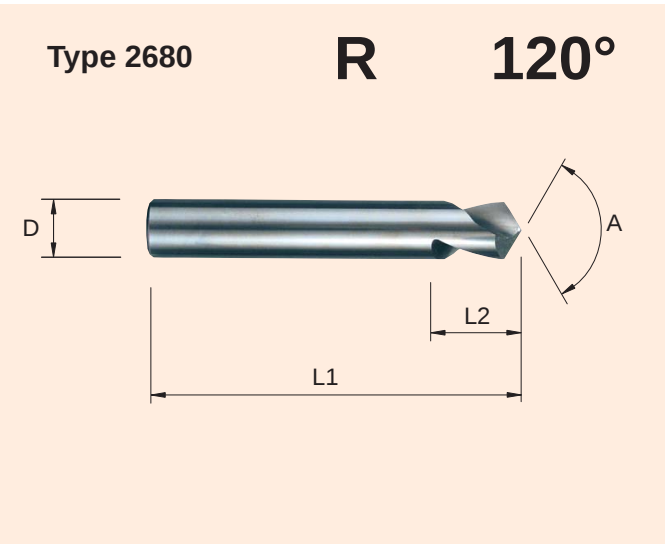
A	D1	L1	L2	HSS	métal dur Vollhartmetall solid carbide
				Art. N°	Art. N°
120°	2	38	8	---	1680-2-120-MD
120°	2.5	38	8	---	1680-2.5-120-MD
120°	3	38	10	1680-3-120-HSS	1680-3-120-MD
120°	4	50	12	1680-4-120-HSS	1680-4-120-MD
120°	5	50	15	1680-5-120-HSS	1680-5-120-MD
120°	6	57	16	1680-6-120-HSS	1680-6-120-MD
120°	8	63	20	1680-8-120-HSS	1680-8-120-MD
120°	10	72	22	1680-10-120-HSS	1680-10-120-MD
120°	12	73	24	1680-12-120-HSS	1680-12-120-MD
120°	16	82	26	---	1680-16-120-MD
120°	20	92	30	---	1680-20-120-MD

Revêtement sur demande
Beschichtung auf Anfrage
Coating on request

Forets à centrer NC
NC-Zentrierbohrer
Forets à centrer NC



A	D1	L1	L2	HSS	métal dur Vollhartmetall solid carbide
				Art. N°	Art. N°
90°	2	38	8	---	2680-2-90-MD
90°	2.5	38	8	---	2680-2.5-50-MD
90°	3	38	10	2680-3-90-HSS	2680-3-90-MD
90°	4	50	12	2680-4-90-HSS	2680-4-90-MD
90°	5	50	15	2680-5-90-HSS	2680-5-90-MD
90°	6	57	16	2680-6-90-HSS	2680-6-90-MD
90°	8	63	20	2680-8-90-HSS	2680-8-90-MD
90°	10	72	22	2680-10-90-HSS	2680-10-90-MD
90°	12	73	24	2680-12-90-HSS	2680-12-90-MD
90°	16	82	26	---	2680-16-90-MD
90°	20	92	30	---	2680-20-90-MD



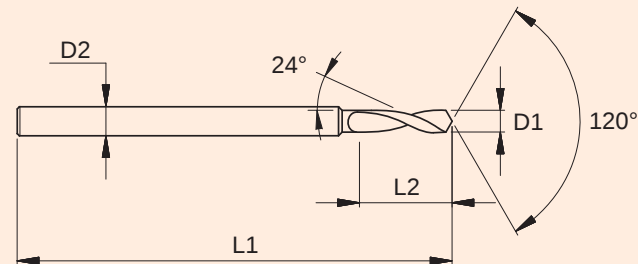
A	D1	L1	L2	HSS	métal dur Vollhartmetall solid carbide
				Art. N°	Art. N°
120°	2	38	8	---	2680-2-120-MD
120°	2.5	38	8	---	2680-2.5-120-MD
120°	3	38	10	2680-3-120-HSS	2680-3-120-MD
120°	4	50	12	2680-4-120-HSS	2680-4-120-MD
120°	5	50	15	2680-5-120-HSS	2680-5-120-MD
120°	6	57	16	2680-6-120-HSS	2680-6-120-MD
120°	8	63	20	2680-8-120-HSS	2680-8-120-MD
120°	10	72	22	2680-10-120-HSS	2680-10-120-MD
120°	12	73	24	2680-12-120-HSS	2680-12-120-MD
120°	16	82	26	---	2680-16-120-MD
120°	20	92	30	---	2680-20-120-MD

Revêtement sur demande
Beschichtung auf Anfrage
Coating on request

Forets pointeurs en métal dur
Vollhartmetall Anbohrer
Solid carbide spot drills

Type 2012

R

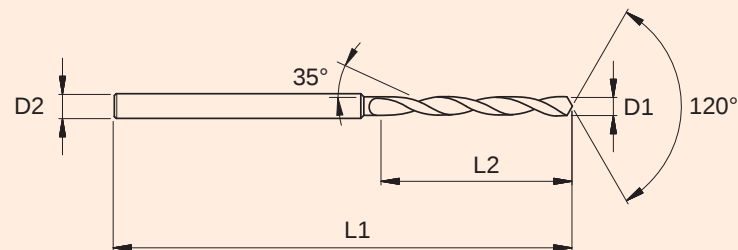


D1 h6	D2 h6	L1	L2	D1 h6	D2 h6	L1	L2
0.50	1.5	30	1.7	1.30	1.5	30	4.2
0.55	1.5	30	1.9	1.40	1.5	30	4.7
0.60	1.5	30	1.9	1.50	2.0	38	4.7
0.65	1.5	30	1.9	1.60	2.0	38	5.4
0.70	1.5	30	2.4	1.70	2.0	38	5.4
0.75	1.5	30	2.4	1.80	2.0	38	6.5
0.80	1.5	30	2.6	1.90	2.0	38	6.5
0.85	1.5	30	2.6	2.00	2.5	38	6.5
0.90	1.5	30	3.0	2.10	2.5	38	6.5
0.95	1.5	30	3.0	2.20	2.5	38	6.5
1.00	1.5	30	3.4	2.30	2.5	38	6.5
1.10	1.5	30	3.8	2.40	2.5	38	6.5
1.20	1.5	30	4.2				

Micro forets en métal dur
Vollhartmetall Mikro-Bohrer
Solid carbide micro drills

Type 2013

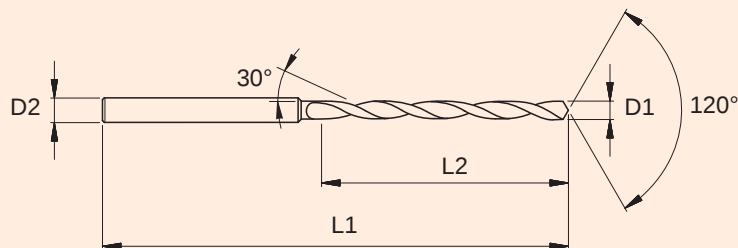
R



D1 h6	D2 h6	L1	L2	D1 h6	D2 h6	L1	L2
0.40	1.0	25	3.6	1.10	1.5	30	9.0
0.45	1.0	25	3.6	1.15	1.5	30	9.0
0.50	1.0	25	4.0	1.20	1.5	30	10.0
0.55	1.0	25	4.5	1.25	1.5	30	10.0
0.60	1.0	25	4.5	1.30	1.5	30	10.0
0.65	1.0	25	5.0	1.35	1.5	30	11.2
0.70	1.0	25	5.6	1.40	1.5	30	11.2
0.75	1.0	25	5.6	1.45	1.5	30	11.2
0.80	1.5	30	6.3	1.50	2.0	38	12.0
0.85	1.5	30	6.3	1.60	2.0	38	12.0
0.90	1.5	30	7.1	1.70	2.0	38	12.0
0.95	1.5	30	7.1	1.80	2.0	38	12.0
1.00	1.5	30	8.0	1.90	2.0	38	12.0
1.05	1.5	30	8.0				

Type 2014

R



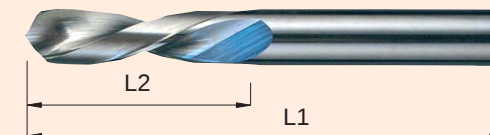
D1 h6	D2 h6	L1	L2	D1 h6	D2 h6	L1	L2
0.50	1.5	30	6.0	1.25	1.5	38	15.0
0.55	1.5	30	6.5	1.30	1.5	38	17.0
0.60	1.5	30	6.5	1.35	1.5	38	17.0
0.65	1.5	30	7.5	1.40	1.5	38	17.0
0.70	1.5	30	8.5	1.45	1.5	38	17.0
0.75	1.5	30	8.5	1.50	2.0	38	18.0
0.80	1.5	30	9.5	1.55	2.0	38	18.0
0.85	1.5	30	9.5	1.60	2.0	38	18.0
0.90	1.5	30	10.5	1.65	2.0	38	18.0
0.95	1.5	30	10.5	1.70	2.0	38	18.0
1.00	1.5	38	12.0	1.75	2.0	38	18.0
1.05	1.5	38	12.0	1.80	2.0	38	18.0
1.10	1.5	38	13.5	1.85	2.0	38	18.0
1.15	1.5	38	13.5	1.90	2.0	38	18.0
1.20	1.5	38	15.0	1.95	2.0	38	18.0

Revêtement sur demande
Beschichtung auf Anfrage
Coating on request

forets hélicoïdaux en métal dur
Vollhartmetall Spiralbohrer
Solid carbide twist drills

Type
CLASSICArt. N°
1010

L



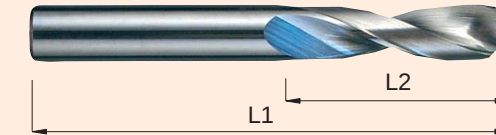
Revêtement
sur demande

Beschichtung
auf Anfrage

Coating
on request

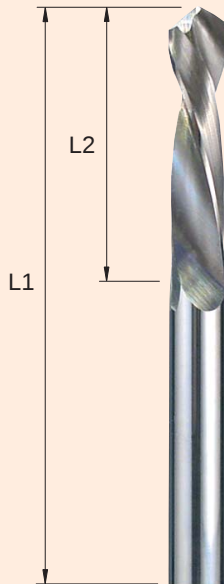
Type
CLASSICArt. N°
2010

R



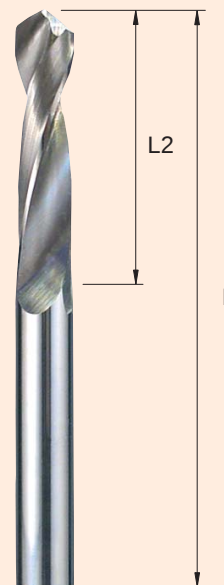
D h6	L1	L2	D h6	L1	L2	D h6	L1	L2	D h6	L1	L2
0.50	30	5	2.55	45	18	0.50	30	5	2.55	45	18
0.55	30	5	2.60	45	18	0.55	30	5	2.60	45	18
0.60	30	5	2.65	45	18	0.60	30	5	2.65	45	18
0.65	30	6	2.70	45	18	0.65	30	6	2.70	45	18
0.70	30	6	2.75	45	18	0.70	30	6	2.75	45	18
0.75	30	8	2.80	45	18	0.75	30	8	2.80	45	18
0.80	30	8	2.85	45	18	0.80	30	8	2.85	45	18
0.85	30	9	2.90	45	18	0.85	30	9	2.90	45	18
0.90	30	9	2.95	45	18	0.90	30	9	2.95	45	18
0.95	30	10	3.00	45	18	0.95	30	10	3.00	45	18
1.00	30	10	3.10	50	20	1.00	30	10	3.10	50	20
1.05	30	10	3.20	50	20	1.05	30	10	3.20	50	20
1.10	30	10	3.30	50	20	1.10	30	10	3.30	50	20
1.15	30	12	3.40	50	20	1.15	30	12	3.40	50	20
1.20	30	12	3.50	50	20	1.20	30	12	3.50	50	20
1.25	30	12	3.60	50	20	1.25	30	12	3.60	50	20
1.30	30	12	3.70	50	20	1.30	30	12	3.70	50	20
1.35	30	12	3.80	50	20	1.35	30	12	3.80	50	20
1.40	30	12	3.90	50	20	1.40	30	12	3.90	50	20
1.45	30	12	4.00	50	20	1.45	30	12	4.00	50	20
1.50	30	12	4.10	50	25	1.50	30	12	4.10	50	25
1.55	40	16	4.20	50	25	1.55	40	16	4.20	50	25
1.60	40	16	4.30	50	25	1.60	40	16	4.30	50	25
1.65	40	16	4.40	50	25	1.65	40	16	4.40	50	25
1.70	40	16	4.50	50	25	1.70	40	16	4.50	50	25
1.75	40	16	4.60	50	25	1.75	40	16	4.60	50	25
1.80	40	16	4.70	50	25	1.80	40	16	4.70	50	25
1.85	40	16	4.80	50	25	1.85	40	16	4.80	50	25
1.90	40	16	4.90	50	25	1.90	40	16	4.90	50	25
1.95	40	16	5.00	50	25	1.95	40	16	5.00	50	25
2.00	40	16	5.10	50	25	2.00	40	16	5.10	50	25
2.05	40	18	5.20	50	25	2.05	40	18	5.20	50	25
2.10	40	18	5.30	50	25	2.10	40	18	5.30	50	25
2.15	40	18	5.40	50	25	2.15	40	18	5.40	50	25
2.20	40	18	5.50	50	25	2.20	40	18	5.50	50	25
2.25	40	18	5.60	50	25	2.25	40	18	5.60	50	25
2.30	40	18	5.70	50	25	2.30	40	18	5.70	50	25
2.35	40	18	5.80	50	25	2.35	40	18	5.80	50	25
2.40	40	18	5.90	50	25	2.40	40	18	5.90	50	25
2.45	40	18	6.00	50	25	2.45	40	18	6.00	50	25
2.50	40	18				2.50	40	18			

Forets à hélice progressive en métal dur
Vollhartmetall-Bohrer mit progressiver Spirale
Solid carbide twist drills with progressive spiral

Type WINNER DIN 1897	Art. N° 1005	L	D h6	L1	L2	D h6	L1	L2
			1.50	32	9	4.50	58	24
			1.55	34	10	4.60	58	24
			1.60	34	10	4.70	58	24
			1.65	34	10	4.80	62	26
			1.70	34	10	4.90	62	26
			1.75	36	11	5.00	62	26
			1.80	36	11	5.10	62	26
			1.85	36	11	5.20	62	26
			1.90	36	11	5.30	62	26
			1.95	38	12	5.40	66	28
			2.00	38	12	5.50	66	28
			2.05	38	12	5.60	66	28
			2.10	38	12	5.70	66	28
			2.15	40	13	5.80	66	28
			2.20	40	13	5.90	66	28
			2.25	40	13	6.00	66	28
			2.30	40	13	6.10	70	31
			2.35	40	13	6.20	70	31
			2.40	43	14	6.30	70	31
			2.45	43	14	6.40	70	31
			2.50	43	14	6.50	70	31
			2.55	43	14	6.60	70	31
			2.60	43	14	6.70	70	31
			2.65	43	14	6.80	74	34
			2.70	46	16	6.90	74	34
			2.75	46	16	7.00	74	34
			2.80	46	16	7.10	74	34
			2.85	46	16	7.20	74	34
			2.90	46	16	7.30	74	34
			2.95	46	16	7.40	74	34
			3.00	46	16	7.50	79	37
			3.10	49	18	7.60	79	37
			3.20	49	18	7.70	79	37
			3.30	49	18	7.80	79	37
			3.40	52	20	7.90	79	37
			3.50	52	20	8.00	79	37
			3.60	52	20	8.20	79	37
			3.70	52	20	8.50	79	37
			3.80	55	22	8.80	84	40
			3.90	55	22	9.00	84	40
			4.00	55	22	9.20	84	40
			4.10	55	22	9.50	84	40
			4.20	55	22	9.80	89	43
			4.30	58	24	10.00	89	43
			4.40	58	24			

Revêtement sur demande
Beschichtung auf Anfrage
Coating on request

Forets à hélice progressive en métal dur
Vollhartmetall-Bohrer mit progressiver Spirale
Solid carbide twist drills with progressive spiral

Type WINNER DIN 1897	Art. N° 2005	R	D h6	L1	L2	D h6	L1	L2
			1.50	32	9	4.50	58	24
			1.55	34	10	4.60	58	24
			1.60	34	10	4.70	58	24
			1.65	34	10	4.80	62	26
			1.70	34	10	4.90	62	26
			1.75	36	11	5.00	62	26
			1.80	36	11	5.10	62	26
			1.85	36	11	5.20	62	26
			1.90	36	11	5.30	62	26
			1.95	38	12	5.40	66	28
			2.00	38	12	5.50	66	28
			2.05	38	12	5.60	66	28
			2.10	38	12	5.70	66	28
			2.15	40	13	5.80	66	28
			2.20	40	13	5.90	66	28
			2.25	40	13	6.00	66	28
			2.30	40	13	6.10	70	31
			2.35	40	13	6.20	70	31
			2.40	43	14	6.30	70	31
			2.45	43	14	6.40	70	31
			2.50	43	14	6.50	70	31
			2.55	43	14	6.60	70	31
			2.60	43	14	6.70	70	31
			2.65	43	14	6.80	74	34
			2.70	46	16	6.90	74	34
			2.75	46	16	7.00	74	34
			2.80	46	16	7.10	74	34
			2.85	46	16	7.20	74	34
			2.90	46	16	7.30	74	34
			2.95	46	16	7.40	74	34
			3.00	46	16	7.50	79	37
			3.10	49	18	7.60	79	37
			3.20	49	18	7.70	79	37
			3.30	49	18	7.80	79	37
			3.40	52	20	7.90	79	37
			3.50	52	20	8.00	79	37
			3.60	52	20	8.20	79	37
			3.70	52	20	8.50	79	37
			3.80	55	22	8.80	84	40
			3.90	55	22	9.00	84	40
			4.00	55	22	9.20	84	40
			4.10	55	22	9.50	84	40
			4.20	55	22	9.80	89	43
			4.30	58	24	10.00	89	43
			4.40	58	24			

Revêtement sur demande
Beschichtung auf Anfrage
Coating on request

Forets à hélice progressive en métal dur
Vollhartmetall-Bohrer mit progressiver Spirale
Solid carbide twist drills with progressive spiral

Type WINNER	Art. N° 1006	L	D h6	L1	L2	D h6	L1	L2
DIN 338			1.50	40	18	4.50	80	47
			1.55	43	20	4.60	80	47
			1.60	43	20	4.70	80	47
			1.65	43	20	4.80	86	52
			1.70	43	20	4.90	86	52
			1.75	46	22	5.00	86	52
			1.80	46	22	5.10	86	52
			1.85	46	22	5.20	86	52
			1.90	46	22	5.30	86	52
			1.95	49	24	5.40	93	57
			2.00	49	24	5.50	93	57
			2.05	49	24	5.60	93	57
			2.10	49	24	5.70	93	57
			2.15	53	27	5.80	93	57
			2.20	53	27	5.90	93	27
			2.25	53	27	6.00	93	27
			2.30	53	27			
			2.35	53	27			
			2.40	57	30			
			2.45	57	30			
			2.50	57	30			
			2.55	57	30			
			2.60	57	30			
			2.65	57	30			
			2.70	61	33			
			2.75	61	33			
			2.80	61	33			
			2.85	61	33			
			2.90	61	33			
			2.95	61	33			
			3.00	61	33			
			3.10	65	36			
			3.20	65	36			
			3.30	65	36			
			3.40	70	39			
			3.50	70	39			
			3.60	70	39			
			3.70	70	39			
			3.80	75	43			
			3.90	75	43			
			4.00	75	43			
			4.10	75	43			
			4.20	75	43			
			4.30	80	47			
			4.40	80	47			

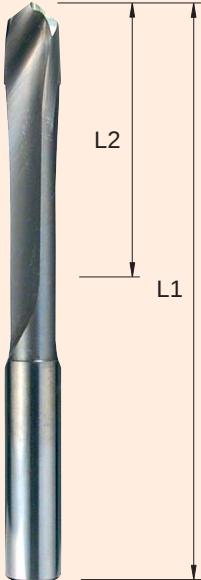
Revêtement sur demande
Beschichtung auf Anfrage
Coating on request

Forets à hélice progressive en métal dur
Vollhartmetall-Bohrer mit progressiver Spirale
Solid carbide twist drills with progressive spiral

Type WINNER	Art. N° 2006	R	D h6	L1	L2	D h6	L1	L2
DIN 338			1.50	40	18	4.50	80	47
			1.55	43	20	4.60	80	47
			1.60	43	20	4.70	80	47
			1.65	43	20	4.80	86	52
			1.70	43	20	4.90	86	52
			1.75	46	22	5.00	86	52
			1.80	46	22	5.10	86	52
			1.85	46	22	5.20	86	52
			1.90	46	22	5.30	86	52
			1.95	49	24	5.40	93	57
			2.00	49	24	5.50	93	57
			2.05	49	24	5.60	93	57
			2.10	49	24	5.70	93	57
			2.15	53	27	5.80	93	57
			2.20	53	27	5.90	93	57
			2.25	53	27	6.00	93	57
			2.30	53	27			
			2.35	53	27			
			2.40	57	30			
			2.45	57	30			
			2.50	57	30			
			2.55	57	30			
			2.60	57	30			
			2.65	57	30			
			2.70	61	33			
			2.75	61	33			
			2.80	61	33			
			2.85	61	33			
			2.90	61	33			
			2.95	61	33			
			3.00	61	33			
			3.10	65	36			
			3.20	65	36			
			3.30	65	36			
			3.40	70	39			
			3.50	70	39			
			3.60	70	39			
			3.70	70	39			
			3.80	75	43			
			3.90	75	43			
			4.00	75	43			
			4.10	75	43			
			4.20	75	43			
			4.30	80	47			
			4.40	80	47			

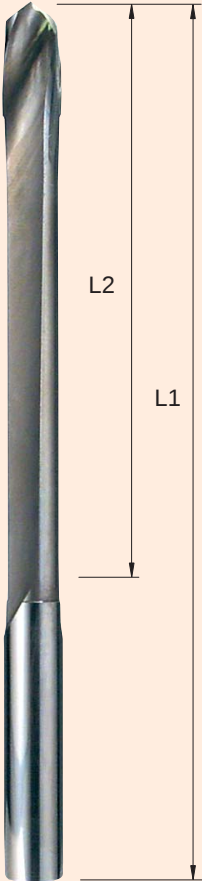
Revêtement sur demande
Beschichtung auf Anfrage
Coating on request

Forets à hélice partielle en métal dur
Vollhartmetall Bohrer mit Spiralspitze
Solid carbide drills with partial spiral

Type THOR DIN 1897	Art. N° 2000	R	D h6	L1	L2	D h6	L1	L2
			1.50	32	9	4.50	58	24
			1.55	34	10	4.60	58	24
			1.60	34	10	4.70	58	24
			1.65	34	10	4.80	62	26
			1.70	34	10	4.90	62	26
			1.75	36	11	5.00	62	26
			1.80	36	11	5.10	62	26
			1.85	36	11	5.20	62	26
			1.90	36	11	5.30	62	26
			1.95	38	12	5.40	66	28
			2.00	38	12	5.50	66	28
			2.05	38	12	5.60	66	28
			2.10	38	12	5.70	66	28
			2.15	40	13	5.80	66	28
			2.20	40	13	5.90	66	28
			2.25	40	13	6.00	66	28
			2.30	40	13	6.10	70	31
			2.35	40	13	6.20	70	31
			2.40	43	14	6.30	70	31
			2.45	43	14	6.40	70	31
			2.50	43	14	6.50	70	31
			2.55	43	14	6.60	70	31
			2.60	43	14	6.70	70	31
			2.65	43	14	6.80	74	34
			2.70	46	16	6.90	74	34
			2.75	46	16	7.00	74	34
			2.80	46	16	7.10	74	34
			2.85	46	16	7.20	74	34
			2.90	46	16	7.30	74	34
			2.95	46	16	7.40	74	34
			3.00	46	16	7.50	79	37
			3.10	49	18	7.60	79	37
			3.20	49	18	7.70	79	37
			3.30	49	18	7.80	79	37
			3.40	52	20	7.90	79	37
			3.50	52	20	8.00	79	37
			3.60	52	20	8.20	79	37
			3.70	52	20	8.50	79	37
			3.80	55	22	8.80	84	40
			3.90	55	22	9.00	84	40
			4.00	55	22	9.20	84	40
			4.10	55	22	9.50	84	40
			4.20	55	22	9.80	89	43
			4.30	58	24	10.00	89	43
			4.40	58	24			

Revêtement sur demande
Beschichtung auf Anfrage
Coating on request

Forets à hélice partielle en métal dur
Vollhartmetall Bohrer mit Spiralspitze
Solid carbide drills with partial spiral

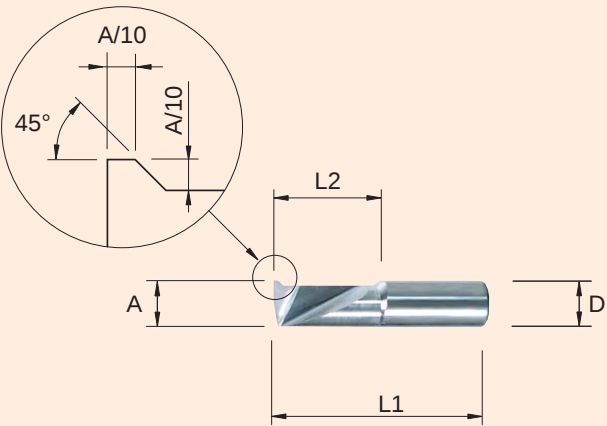
Type THOR DIN 338	Art. N° 2001	R	D h6	L1	L2	D h6	L1	L2
			2.00	49	24	5.20	86	52
			2.05	49	24	5.30	86	52
			2.10	49	24	5.40	93	57
			2.15	53	27	5.50	93	57
			2.20	53	27	5.60	93	57
			2.25	53	27	5.70	93	57
			2.30	53	27	5.80	93	57
			2.35	53	27	5.90	93	57
			2.40	57	30	6.00	93	57
			2.45	57	30			
			2.50	57	30			
			2.55	57	30			
			2.60	57	30			
			2.65	57	30			
			2.70	61	33			
			2.75	61	33			
			2.80	61	33			
			2.85	61	33			
			2.90	61	33			
			2.95	61	33			
			3.00	61	33			
			3.10	65	36			
			3.20	65	36			
			3.30	65	36			
			3.40	70	39			
			3.50	70	39			
			3.60	70	39			
			3.70	70	39			
			3.80	75	43			
			3.90	75	43			
			4.00	75	43			
			4.10	75	43			
			4.20	75	43			
			4.30	80	47			
			4.40	80	47			
			4.50	80	47			
			4.60	80	47			
			4.70	80	47			
			4.80	86	52			
			4.90	86	52			
			5.00	86	52			
			5.10	86	52			

Revêtement sur demande
Beschichtung auf Anfrage
Coating on request

Burins intérieurs en métal dur
Vollhartmetall-Innendrehwerkzeuge
Solid carbide internal turning tools

Type 1600

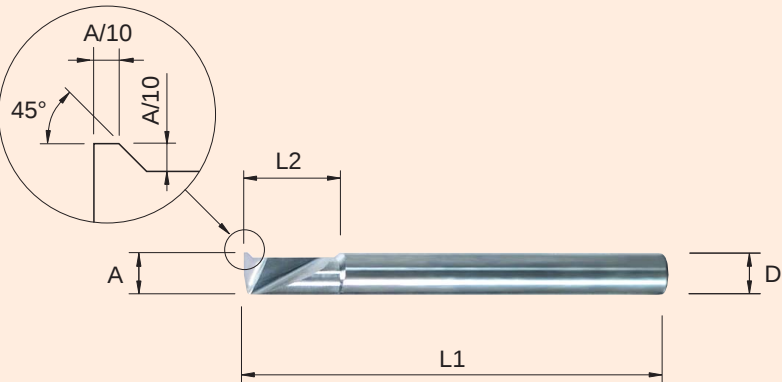
L



A ^{-0.05}	D	L1	L2	Art. N°
2	3	13	4	1600-2-4
3	3	15	6	1600-3-6
4	4	17	8	1600-4-8
4	4	21	12	1600-4-12
5	5	21	10	1600-5-10
5	5	26	15	1600-5-15
6	6	25	12	1600-6-12
6	6	31	18	1600-6-18
8	8	32	16	1600-8-16
8	8	40	24	1600-8-24

Type 1610

L



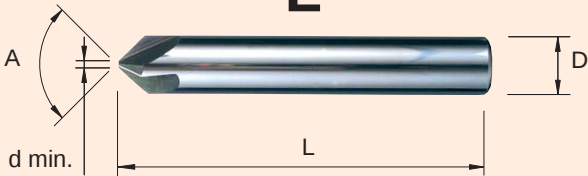
A ^{-0.05}	D	L1	L2	Art. N°
2	3	38	4	1610-2-4
3	3	38	6	1610-3-6
4	4	40	8	1610-4-8
4	4	40	12	1610-4-12
5	5	50	10	1610-5-10
5	5	54	15	1610-5-15
6	6	50	12	1610-6-12
6	6	57	18	1610-6-18
8	8	58	16	1610-8-16
8	8	63	24	1610-8-24

Fraises à angler coniques en métal dur
Vollhartmetall-Kegelsenker
Solid carbide chamfering tools

Type 1901

Z=4

L



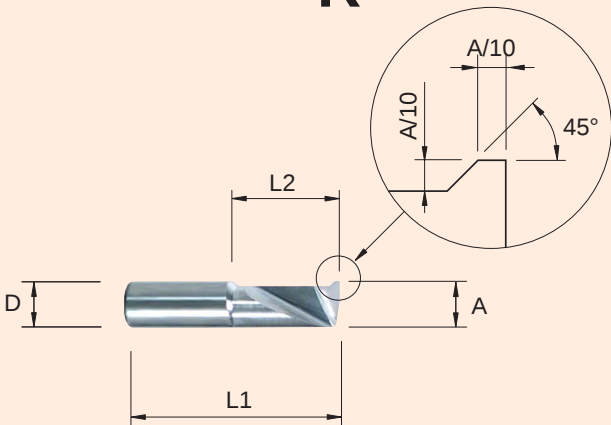
A	D	d min.	L	Art. N°
90°	3.0	0.5	38	1901-3
90°	6.0	1.0	50	1901-6
90°	8.0	1.5	58	1901-8
90°	12.0	2.0	73	1901-12

Revêtement sur demande
Beschichtung auf Anfrage
Coating on request

Burins intérieurs en métal dur
Vollhartmetall-Innendrehwerkzeuge
Solid carbide internal turning tools

Type 2620

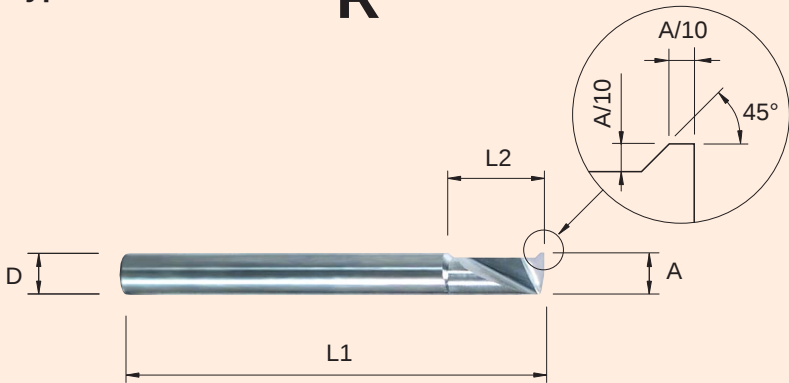
R



A ^{-0.05}	D	L1	L2	Art. N°
2	3	13	4	2620-2-4
3	3	15	6	2620-3-6
4	4	17	8	2620-4-8
4	4	21	12	2620-4-12
5	5	21	10	2620-5-10
5	5	26	15	2620-5-15
6	6	25	12	2620-6-12
6	6	31	18	2620-6-18
8	8	32	16	2620-8-16
8	8	40	24	2620-8-24

Type 2630

R



A ^{-0.05}	D	L1	L2	Art. N°
2	3	38	4	2630-2-4
3	3	38	6	2630-3-6
4	4	40	8	2630-4-8
4	4	40	12	2630-4-12
5	5	50	10	2630-5-10
5	5	54	15	2630-5-15
6	6	50	12	2630-6-12
6	6	57	18	2630-6-18
8	8	58	16	2630-8-16
8	8	63	24	2630-8-24
10	10	72	30	2630-10-30
12	12	83	36	2630-12-36

Fraises à angler coniques en métal dur
Vollhartmetall-Kegelsenker
Solid carbide chamfering tools

Type 3901

Z=4

R

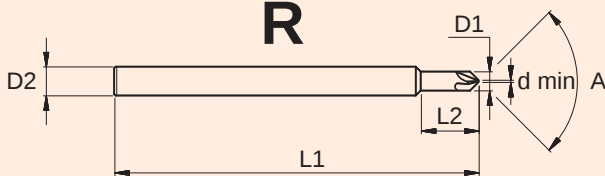


A	D	d min.	L	Art. N°
90°	3.0	0.5	38	3901-3
90°	6.0	1.0	50	3901-6
90°	8.0	1.5	58	3901-8
90°	12.0	2.0	73	3901-12

Type 3911

Z=3

R



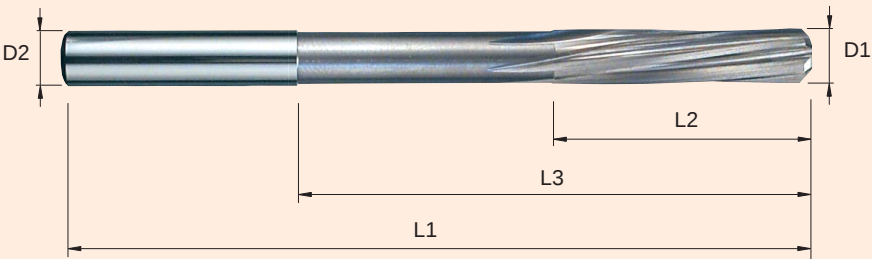
A	D1	d min.	D2 h6	L1	L2	Art. N°
90°	1.0	0.3	3.0	39	3	3911-1.0
90°	1.5	0.3	3.0	39	4.5	3911-1.5
90°	2.0	0.3	3.0	39	6	3911-2.0
90°	2.5	0.3	3.0	39	7.5	3911-2.5

Revêtement sur demande
Beschichtung auf Anfrage
Coating on request

Alésoirs en métal dur
VHM-Reibahlen
Solid carbide reamers

Type 2100

Coupe à droite, hélice à gauche 8°
Rechtsschneidend, linksdrall 8°
Right-hand cut, left-hand spiral 8°



nombre de dents
Zähnezahl
number of teeth

0.97 - 4.50 → Z = 4
4.60 - 12.0 → Z = 6

Tolérance D1
D1-Toleranz
Tolerance D1

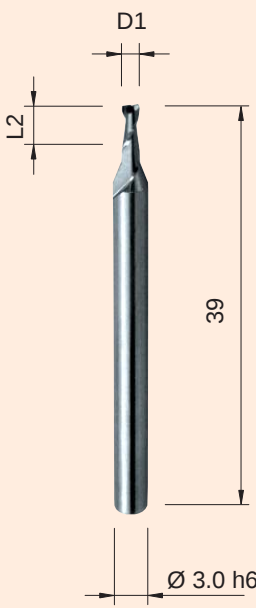
Ø 0.97 - 3.03 → 0 / +0.003
3.10 - 10.03 → 0 / +0.004
Ø H7 1.0H7 - 3.0H7 → +0.004 / +0.008
= ~ 40% tol. 3.5H7 - 6.0H7 → +0.005 / +0.010
(VSM 6.5H7 - 10.0H7 → +0.006 / +0.012
34306) 11.0H7 - 12.0H7 → +0.008 / +0.015

D1	D2	L1	L2	L3	D1	D2	L1	L2	L3	D1	D2	L1	L2	L3	D1	D2	L1	L2	L3
0.97	1.5	50	15	30	2.52	2.5	50	15	30	4.50	4.5	60	20	40	6.99	7.0	100	30	65
0.98	1.5	50	15	30	2.53	2.5	50	15	30	4.5H7	4.5	60	20	40	7.00	7.0	100	30	65
0.99	1.5	50	15	30	2.60	3.0	60	20	40	4.60	5.0	75	25	50	7.0H7	7.0	100	30	65
1.00	1.5	50	15	30	2.70	3.0	60	20	40	4.70	5.0	75	25	50	7.01	7.0	100	30	65
1.0H7	1.5	50	15	30	2.80	3.0	60	20	40	4.80	5.0	75	25	50	7.02	7.0	100	30	65
1.01	1.5	50	15	30	2.90	3.0	60	20	40	4.90	5.0	75	25	50	7.03	7.0	100	30	65
1.02	1.5	50	15	30	2.97	3.0	60	20	40	4.97	5.0	75	25	50	7.97	8.0	100	30	65
1.03	1.5	50	15	30	2.98	3.0	60	20	40	4.98	5.0	75	25	50	7.98	8.0	100	30	65
1.10	1.5	50	15	30	2.99	3.0	60	20	40	4.99	5.0	75	25	50	7.99	8.0	100	30	65
1.20	1.5	50	15	30	3.00	3.0	60	20	40	5.00	5.0	75	25	50	8.00	8.0	100	30	65
1.30	1.5	50	15	30	3.0H7	3.0	60	20	40	5.0H7	5.0	75	25	50	8.0H7	8.0	100	30	65
1.40	1.5	50	15	30	3.01	3.0	60	20	40	5.01	5.0	75	25	50	8.01	8.0	100	30	65
1.50	1.5	50	15	30	3.02	3.0	60	20	40	5.02	5.0	75	25	50	8.02	8.0	100	30	65
1.5H7	1.5	50	15	30	3.03	3.0	60	20	40	5.03	5.0	75	25	50	8.03	8.0	100	30	65
1.60	2.0	50	15	30	3.10	3.5	60	20	40	5.10	6.0	75	25	50	8.97	9.0	100	30	65
1.70	2.0	50	15	30	3.20	3.5	60	20	40	5.20	6.0	75	25	50	8.98	9.0	100	30	65
1.80	2.0	50	15	30	3.30	3.5	60	20	40	5.30	6.0	75	25	50	8.99	9.0	100	30	65
1.90	2.0	50	15	30	3.40	3.5	60	20	40	5.40	6.0	75	25	50	9.00	9.0	100	30	65
1.97	2.0	50	15	30	3.50	3.5	60	20	40	5.50	6.0	75	25	50	9.0H7	9.0	100	30	65
1.98	2.0	50	15	30	3.5H7	3.5	60	20	40	5.5H7	6.0	75	25	50	9.01	9.0	100	30	65
1.99	2.0	50	15	30	3.60	4.0	60	20	40	5.60	6.0	75	25	50	9.02	9.0	100	30	65
2.00	2.0	50	15	30	3.70	4.0	60	20	40	5.70	6.0	75	25	50	9.03	9.0	100	30	65
2.0H7	2.0	50	15	30	3.80	4.0	60	20	40	5.80	6.0	75	25	50	9.97	10.0	100	30	65
2.01	2.0	50	15	30	3.90	4.0	60	20	40	5.90	6.0	75	25	50	9.98	10.0	100	30	65
2.02	2.0	50	15	30	3.97	4.0	60	20	40	5.97	6.0	75	25	50	9.99	10.0	100	30	65
2.03	2.0	50	15	30	3.98	4.0	60	20	40	5.98	6.0	75	25	50	10.00	10.0	100	30	65
2.10	2.5	50	15	30	3.99	4.0	60	20	40	5.99	6.0	75	25	50	10.0H7	10.0	100	30	65
2.20	2.5	50	15	30	4.00	4.0	60	20	40	6.00	6.0	75	25	50	10.01	10.0	100	30	65
2.30	2.5	50	15	30	4.0H7	4.0	60	20	40	6.0H7	6.0	75	25	50	10.02	10.0	100	30	65
2.40	2.5	50	15	30	4.01	4.0	60	20	40	6.01	6.0	75	25	50	10.03	10.0	100	30	65
2.47	2.5	50	15	30	4.02	4.0	60	20	40	6.02	6.0	75	25	50	11.0H7	11.0	100	30	65
2.48	2.5	50	15	30	4.03	4.0	60	20	40	6.03	6.0	75	25	50	12.0H7	12.0	100	30	65
2.49	2.5	50	15	30	4.10	4.5	60	20	40	6.50	7.0	75	25	50					
2.50	2.5	50	15	30	4.20	4.5	60	20	40	6.5H7	7.0	75	25	50					
2.5H7	2.5	50	15	30	4.30	4.5	60	20	40	6.97	7.0	100	30	65					
2.51	2.5	50	15	30	4.40	4.5	60	20	40	6.98	7.0	100	30	65					

Revêtement sur demande
Beschichtung auf Anfrage
Coating on request

Micro-fraises de précision en métal dur
Vollhartmetall-Micropräzisionsfräser
Solid carbide precision micro end mills

Type 3271

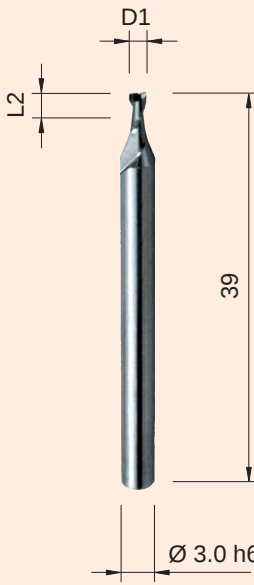


D1 +/- 0.015	L2	D1 +/- 0.015	L2
0.3	1	1.6	4
0.4	1	1.7	5
0.5	1.5	1.8	5
0.6	1.5	1.9	5
0.7	2	2.0	5
0.75	2	2.1	5
0.8	2	2.2	5
0.9	2.5	2.3	7
1.0	3	2.4	7
1.1	3	2.5	7
1.2	4	2.6	7
1.3	4	2.7	7
1.4	4	2.8	7
1.5	4	2.9	7

Z=2 coupe au centre
Zentrumsschnitt
cut over center

30° hélice
Drall
spiral

Type 3274



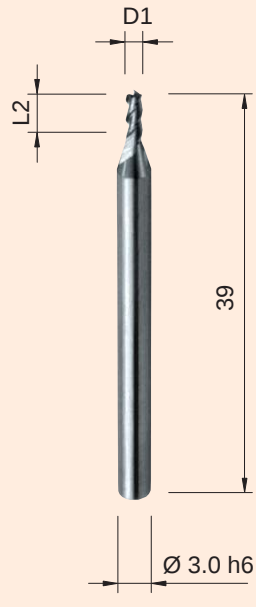
D1 +/- 0.015	L2	D1 +/- 0.015	L2
0.2	0.3	1.1	1.65
0.25	0.35	1.2	1.8
0.3	0.45	1.3	1.95
0.4	0.6	1.4	2.1
0.5	0.75	1.5	2.25
0.6	0.9	1.6	2.4
0.7	1.05	1.7	2.55
0.8	1.2	1.8	2.7
0.9	1.35	1.9	2.85
1.0	1.5	2.0	3.0

Z=2 coupe au centre
Zentrumsschnitt
cut over center

30° hélice
Drall
spiral

extra-courte
Extra kurz
extra short

Type 3371

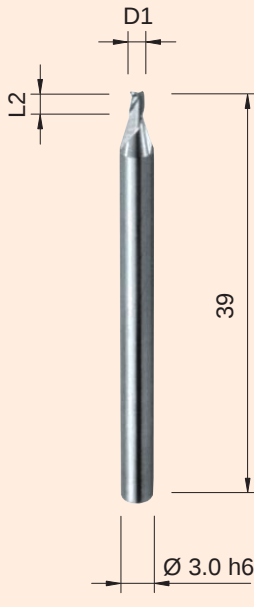


D1 +/- 0.015	L2	D1 +/- 0.015	L2
0.5	1.5	1.7	5
0.6	1.5	1.8	5
0.7	2	1.9	5
0.75	2	2.0	5
0.8	2	2.1	5
0.9	2.5	2.2	5
1.0	3	2.3	7
1.1	3	2.4	7
1.2	4	2.5	7
1.3	4	2.6	7
1.4	4	2.7	7
1.5	4	2.8	7
1.6	4	2.9	7

Z=3 coupe au centre
Zentrumsschnitt
cut over center

30° hélice
Drall
spiral

Type 3374



D1 +/- 0.015	L2	D1 +/- 0.015	L2
0.4	0.6	1.4	1.8
0.45	0.7	1.5	1.8
0.5	0.7	1.6	2.0
0.6	0.8	1.7	2.0
0.7	0.9	1.8	2.0
0.8	1.0	1.9	2.4
0.9	1.3	2.0	2.4
1.0	1.3	2.2	2.6
1.1	1.6	2.5	3.0
1.2	1.6	2.8	3.5
1.3	1.8	2.9	3.5

Z=3 coupe au centre
Zentrumsschnitt
cut over center

30° hélice
Drall
spiral

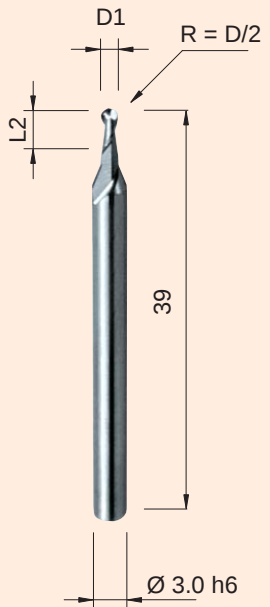
extra-courte
Extra kurz
extra short

Revêtement sur demande
Beschichtung auf Anfrage
Coating on request

Micro-fraises de précision en métal dur
Vollhartmetall-Micropräzisionsfräser
Solid carbide precision micro end mills

Type 3278

hémisphérique
Stinradius
ball end



D1 +/- 0.015	L2	D1 +/- 0.015	L2
0.3	1	1.4	4
0.4	1	1.5	4
0.5	1.5	1.6	4
0.6	1.5	1.8	5
0.7	2	2.0	7
0.8	2	2.2	7
0.9	2.5	2.5	7
1.0	3	2.8	7
1.2	4		

Z=2

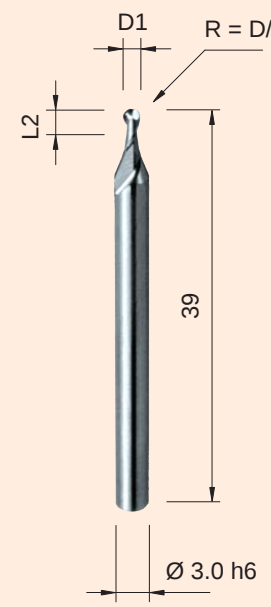
coupe au centre
Zentrumsschnitt
cut over center

30°

hélice
Drall
spiral

Type 3279

hémisphérique, extra-courte
Stinradius, Extra kurz
ball end, extra short



D1 +/- 0.015	L2	D1 +/- 0.015	L2
0.2	0.3	1.0	1.5
0.25	0.35	1.1	1.65
0.3	0.45	1.2	1.8
0.4	0.6	1.3	1.95
0.5	0.75	1.4	2.1
0.6	0.9	1.5	2.25
0.7	1.05	1.6	2.4
0.8	1.2	1.8	2.7
0.9	1.35	2.0	3.0

Z=2

coupe au centre
Zentrumsschnitt
cut over center

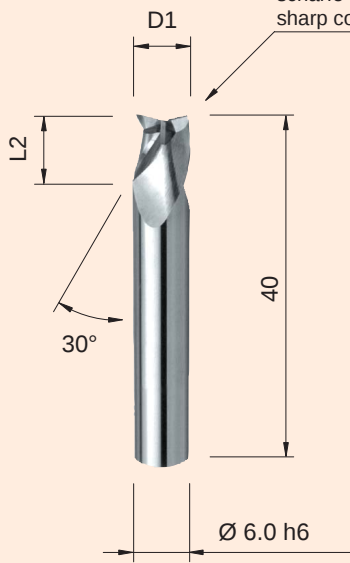
30°

hélice
Drall
spiral

Micro-fraises de précision en métal dur
Vollhartmetall-Micropräzisionsfräser
Solid carbide precision micro end mills

Type 3335

extra-courte
Extra kurz
extra short



D1 +/- 0.015	L2	D1 +/- 0.015	L2
1.5	3	4.0	5
2.0	3	4.5	5
2.5	3	5.0	6
3.0	4	6.0	7
3.5	4		

Z=3

coupe au centre
Zentrumsschnitt
cut over center

angle vif
scharfe Ecke
sharp corner

30°

Revêtement sur demande
Beschichtung auf Anfrage
Coating on request

Fraises en bout en métal dur
VHM-Schaftfräser
Solid carbide end mills

Type 3231

Z = 2
a = 30°



Type 3238

Z = 2 / R
a = 30°



Type 3331

Z = 3
a = 30°



Type 3338

Z = 3 / R
a = 30°



Type 3341

Z = 3
a = 45°



Type 3361

Z = 3
a = 60°



Type 3431

Z = 4
a = 30°



Type 3441

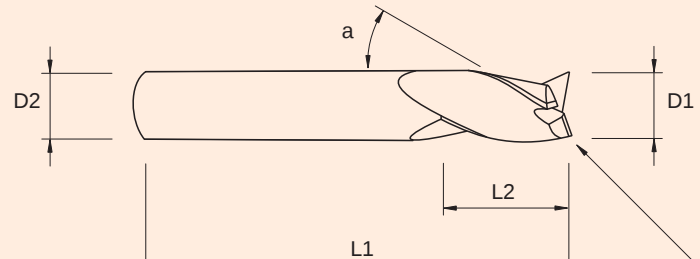
Z = 4
a = 45°



dimensions
Abmessungen
dimensions

D1 h10 D2 h6	L1	L2
2.0	32	8
2.5	32	8
3.0	32	12
3.5	32	12
4.0	40	12
4.5	50	14
5.0	50	14
6.0	50	16
7.0	60	20
8.0	60	20
9.0	60	20
10.0	70	22
12.0	70	22

queue lisse
Zylinderschaft
straight shank



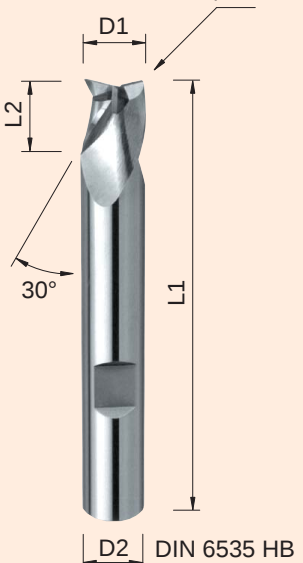
coupe au centre
Zentrumsschnitt
cut over center

angle vif
scharfe Ecke
sharp corner

Type 3336 DIN 6527 K

Z = 3

coupe au centre
Zentrumsschnitt
cut over center



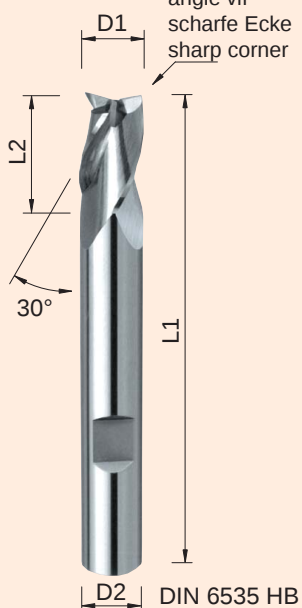
D1 h10	D2 h6	L1	L2
1.5	6.0	50	3
1.8	6.0	50	3
2.0	6.0	50	3
2.5	6.0	50	3
2.8	6.0	50	4
3.0	6.0	50	4
3.5	6.0	50	4
3.8	6.0	54	5
4.0	6.0	54	5
4.5	6.0	54	5
4.8	6.0	54	6
5.0	6.0	54	6
5.5	6.0	54	7
5.8	6.0	54	7
6.0	6.0	54	7
7.0	8.0	58	8
8.0	8.0	58	9
9.0	10.0	66	10
10.0	10.0	66	11
12.0	12.0	73	12

angle vif
scharfe Ecke
sharp corner

30°

DIN 6535 HB

Type 3337 DIN 6527 L



D1 h10	D2 h6	L1	L2
2.0	6.0	57	6
2.5	6.0	57	6
3.0	6.0	57	7
3.5	6.0	57	7
4.0	6.0	57	8
4.5	6.0	57	8
5.0	6.0	57	10
6.0	6.0	57	10
8.0	8.0	63	16
10.0	10.0	72	19
12.0	12.0	83	22

angle vif
scharfe Ecke
sharp corner

30°

DIN 6535 HB

Z = 3

coupe au centre
Zentrumsschnitt
cut over center

Revêtement sur demande
Beschichtung auf Anfrage
Coating on request

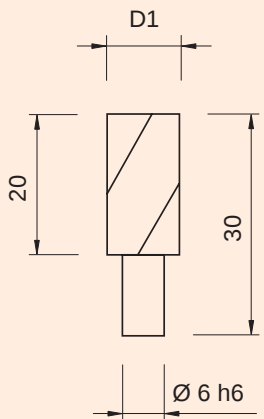
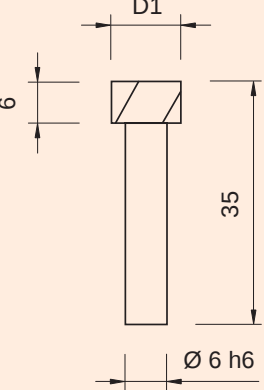
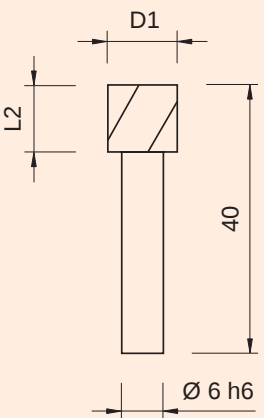
5.20

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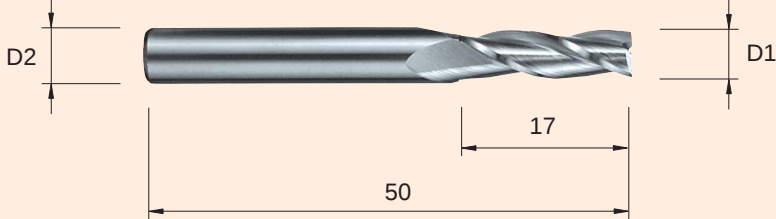
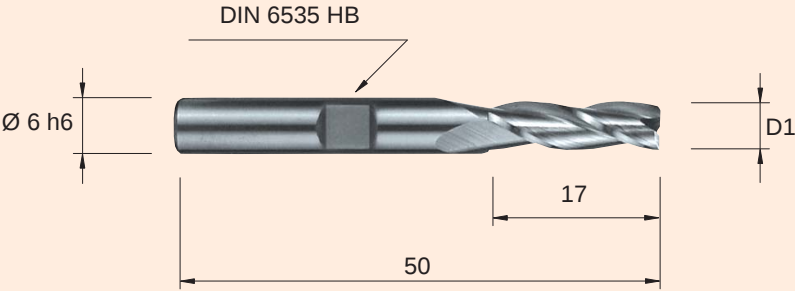
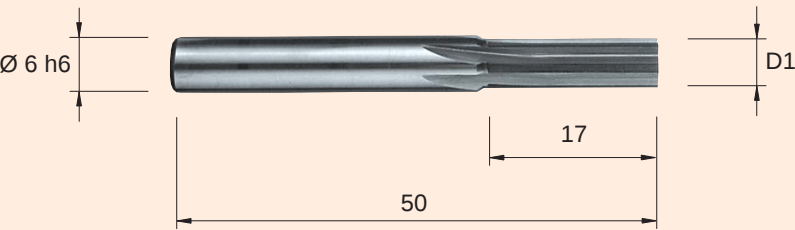
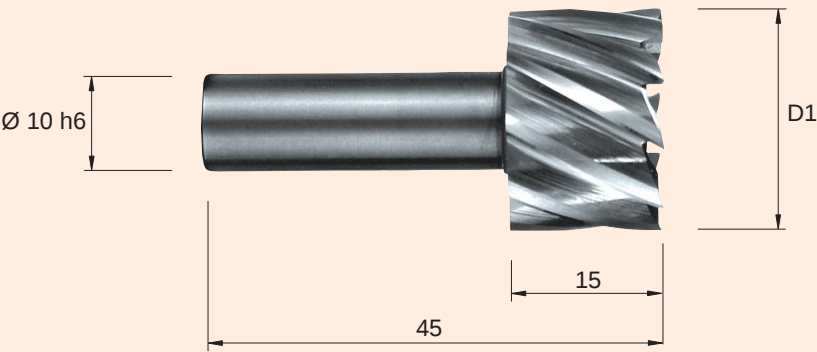
WWW.APPLITEC-TOOLS.COM

5.21

Fraises en bout en métal dur pour usinage en bout plat
VHM-Schaftfräser für flache Front-Bearbeitung
Solid carbide end mills for flat front machining

Type 3281	Type 3381	dimensions Abmessungen dimensions		
Z = 2 	Z = 3 		D1 h10	
			6.0	
			8.0	
			10.0	
			12.0	
		coupe au centre Zentrumsschnitt cut over center	30° hélice Drall spiral	
Type 3282	Type 3382	dimensions Abmessungen dimensions		
Z = 2  	Z = 3  		D1 h10	D1 h10
			3.0	6.0
			3.5	7.0
			4.0	8.0
			4.5	10.0
			5.0	12.0
			5.5	
		coupe au centre Zentrumsschnitt cut over center	30° hélice Drall spiral	
Type 3283	Type 3383	dimensions Abmessungen dimensions		
Z = 2  	Z = 3  		D1 h10	L2
			4.0	4
			5.0	5
			6.0	6
			7.0	7
			8.0	8
			10.0	10
			12.0	12
		coupe au centre Zentrumsschnitt cut over center	30° hélice Drall spiral	
Revêtement sur demande Beschichtung auf Anfrage Coating on request				

Fraises en bout en métal dur pour usinage de cames
Vollhartmetall-Schaftfräser für Kurvenbearbeitung
Solid carbide end mills for came machining

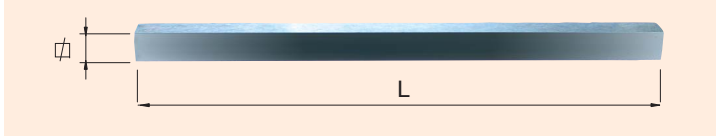
Z = 3		<table><tr><th>D1</th><th>D2 h6</th><th>Art. N°</th></tr><tr><td>5.0</td><td>5.0</td><td>3801</td></tr><tr><td>5.2</td><td>6.0</td><td>3802</td></tr><tr><td>6.0</td><td>6.0</td><td>3803</td></tr></table>	D1	D2 h6	Art. N°	5.0	5.0	3801	5.2	6.0	3802	6.0	6.0	3803
	D1	D2 h6	Art. N°											
	5.0	5.0	3801											
	5.2	6.0	3802											
6.0	6.0	3803												
coupe au centre Zentrumsschnitt cut over center		<table><tr><th>D1</th><th>Art. N°</th></tr><tr><td>5.2</td><td>3812</td></tr><tr><td>6.0</td><td>3813</td></tr></table>	D1	Art. N°	5.2	3812	6.0	3813						
	D1	Art. N°												
	5.2	3812												
	6.0	3813												
Z = 6		<table><tr><th>D1</th><th>Art. N°</th></tr><tr><td>4.2</td><td>3821</td></tr><tr><td>5.2</td><td>3822</td></tr></table>	D1	Art. N°	4.2	3821	5.2	3822						
	D1	Art. N°												
	4.2	3821												
	5.2	3822												
Z = 10		<table><tr><th>D1</th><th>Art. N°</th></tr><tr><td>16.3</td><td>3831</td></tr><tr><td>18.3</td><td>3832</td></tr><tr><td>20.3</td><td>3833</td></tr><tr><td>22.3</td><td>3834</td></tr><tr><td>24.3</td><td>3835</td></tr></table>	D1	Art. N°	16.3	3831	18.3	3832	20.3	3833	22.3	3834	24.3	3835
	D1	Art. N°												
	16.3	3831												
	18.3	3832												
	20.3	3833												
	22.3	3834												
	24.3	3835												

Cylindres rectifiés en métal dur
Vollhartmetall-Rundstäbe geschliffen
Solid carbide ground rods



D h6	Art. N°	D h6	Art. N°	D h6	Art. N°
1.00	0010-1.0	4.0	0010-4.0	8.00	0010-8.0
1.50	0010-1.5	4.50	0010-4.5	9.00	0010-9.0
2.00	0010-2.0	5.00	0010-5.0	10.00	0010-10.0
2.50	0010-2.5	5.50	0010-5.5	11.00	0010-11.0
3.00	0010-3.0	6.00	0010-6.0	12.00	0010-12.0
3.50	0010-3.5	7.00	0010-7.0		

Barreaux carrés rectifiés en métal dur
Vollhartmetall-Quadratstäbe geschliffen
Solid carbide ground square bar blanks



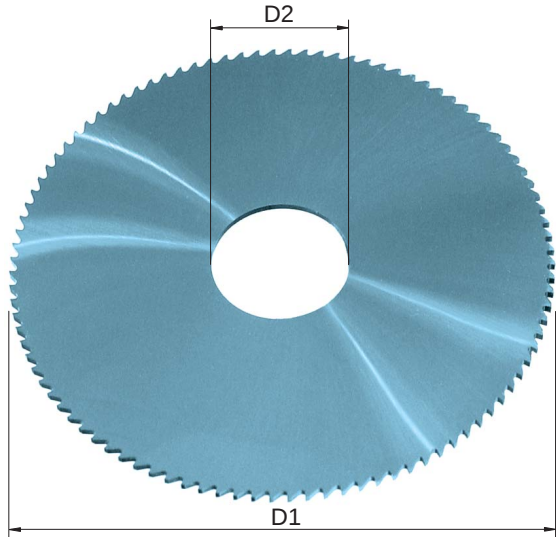
mm	L	Art. N°
6 x 6	130	0001
7 x 7	140	0002
8 x 8	140	0003
10 x 10	140	0004
12 x 12	140	0005

Fraises circulaires en métal dur
VHM-Kreissägeblätter
Solid carbide slitting saws

Type 1101

denture fine
feine Verzahnung
fine teeth

DIN 1837



Revêtement sur demande
Beschichtung auf Anfrage
Coating on request

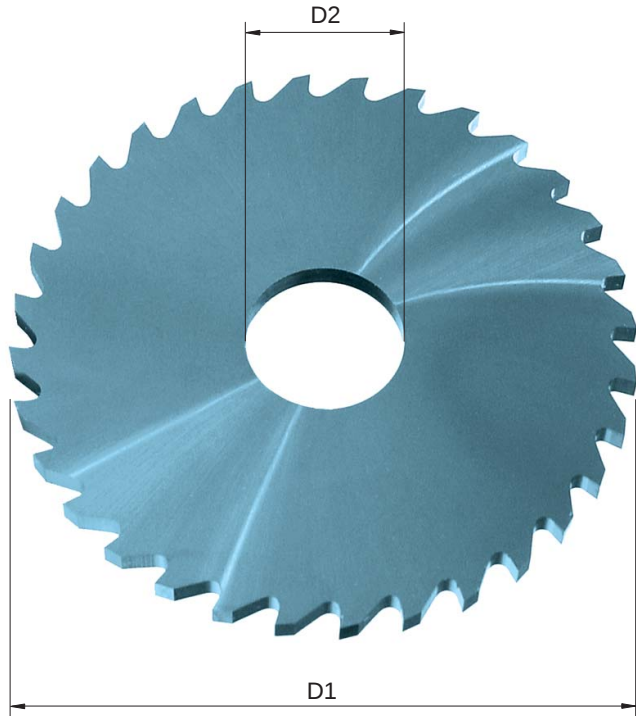
D1	15	20	25	30	40	50	63	80	100	125
D2 H7	5	5	8	8	10	13	16	22	22	22
épaisseur Dicke thickness	nombre de dents Zähnezahl number of teeth									
0.10	64	80	80	100	128					
0.15	64	80	80	100	128					
0.20	64	80	80	100	128	128	160			
0.25	64	64	80	100	100	128	128	160		
0.30	64	64	80	80	100	128	128	160		
0.35	64	64	64	80	100	100	128	160		
0.40	64	64	64	80	100	100	128	160		
0.45	48	48	64	80	80	100	128	128		
0.50	48	48	64	80	80	100	128	128	160	
0.60	48	48	64	64	80	100	100	128	160	160
0.70	48	48	48	64	80	80	100	128	128	160
0.80	40	40	48	64	80	80	100	128	128	160
0.90	40	40	48	64	64	80	100	100	128	160
1.00	40	40	48	64	64	80	100	100	128	160
1.10	40	40	48	48	64	80	80	100	128	128
1.20	40	40	48	48	64	80	80	100	128	128
1.30	40	40	40	48	64	64	80	100	100	
1.40	40	40	40	48	64	64	80	100	100	128
1.50	40	40	40	48	64	64	80	100	100	128
1.60	40	40	40	48	64	64	80	100	100	128
1.70	40	32	40	48	48	64	80	80	100	
1.80	40	32	40	48	48	64	80	80	100	128
1.90	40	32	40	48	48	64	80	80	100	
2.00	40	32	40	48	48	64	80	80	100	128
2.50	40	32	40	40	48	64	64	80	100	100
3.00	40	32	32	40	48	48	64	80	80	100
3.50	24	24	32	40	40	48	64	64	80	100
4.00	24	24	32	40	40	48	64	64	80	100
5.00	24	24	32	32	40	48	48	64	80	100
6.00	24	24	24	32	40	40	48	64	64	100

Fraises circulaires en métal dur
VHM-Kreissägeblätter
Solid carbide slitting saws

Type 1102

denture grossière
grobe Verzahnung
large teeth

DIN 1838



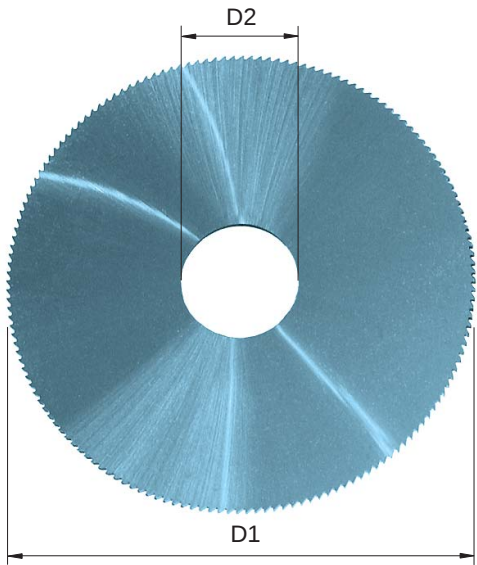
D1	15	20	25	30	40	50	63	80	100	125
D2 H7	5	5	8	8	10	13	16	22	22	22
épaisseur Dicke thickness	nombre de dents Zähnezahl number of teeth									
0.20	20	20	20	30	40					
0.25	20	20	20	30	40					
0.30	20	20	20	30	40					
0.40	20	20	20	30	40	48	64			
0.50	20	20	20	30	40	48	64			
0.60	20	20	20	30	40	48	48	64	80	
0.70	20	20	20	30	40	40	48	64	64	
0.80	20	20	20	24	32	40	48	64	64	80
0.90	20	20	20	24	32	40	48	48	64	80
1.00	20	20	20	24	32	40	48	48	64	80
1.20	20	20	20	24	32	40	40	48	64	64
1.50	20	20	20	24	32	32	40	48	48	64
1.60	20	20	20	24	32	32	40	48	48	64
1.80	20	20	20	24	24	32	40	40	48	64
2.00	20	20	20	24	24	32	40	40	48	64
2.50	20	20	20	24	24	32	32	40	48	48
3.00	20	20	20	24	24	24	32	40	40	48
4.00	20	20	20	24	20	24	32	32	40	48
5.00	20	20	20	24	20	24	24	32	40	40
6.00	20	20	20	24	20	20	24	32	32	40

Revêtement sur demande
Beschichtung auf Anfrage
Coating on request

Fraises circulaires en métal dur
VHM-Kreissägeblätter
Solid carbide slitting saws

Type 1103

denture extra-fine
extra feine Verzahnung
extra fine teeth



pour usinage de pièces fragiles ou fines

idéal pour le décolletage

für die Bearbeitung von empfindlichen oder dünnwandigen Werkstücken

für Landrehautomaten besonders empfehlenswert

for machining of fragile or thin workpieces

recommended on automatic lathes

D1	8	10	12	15	20	20	20	25	25	25	30	32
D2 H7	3	3	5	5	5	5	6	5	6	8	8	8
épaisseur Dicke thickness	nombre de dents Zähnezahl number of teeth											
0.10	48	64	64	80	*	100	80	80				
0.15	48	64	64	80	*	100	80	80	100	100	*	80
0.20	48	64	64	80	*	100	80	80	100	100	*	80
0.25	48	64	64	80	80	100	80	80	100	100	*	80
0.30	48	64	64	80	80	100	80	80	100	100	100	80
0.35	48	64	64	80	80		80	80	100	100	100	80
0.40	48	64	64	80	80	100	80	80	100	100	100	80
0.50	48	64	64	80	80	100	80	80	100	100	100	80
0.60	48	64	64	80	80		80	80	100	100	100	80
0.70	48	64	64	80	80		80	80	100	100	100	80
0.80	48	64	64	80	80		80	80	100	100	100	80
0.90	48	64	64	80	80		80	80	100	100	100	80
1.00	48	64	64	80	80		80	80	100	100	100	80
1.20				80	80		80	80	100	100	100	80
1.50				80	80		80	80	100	100	100	80
2.00				80	80		80	80	100	100	100	80
2.50				80	80		80	80	100	100	100	80
3.00				80	80		80	80	100	100	100	80

*=voir type 1101
*=siehe Typ 1101
*=see type 1101

Revêtement sur demande
Beschichtung auf Anfrage
Coating on request

Fraises circulaires en métal dur
VHM-Kreissägeblätter
Solid carbide slitting saws

Type 1103

denture extra-fine
extra feine Verzahnung
extra fine teeth

D1	35	40	40	40	40	45	45	50	50	63	80
D2 H7	8	8	8	10	10	8	8	10	13	16	16
épaisseur Dicke thickness	nombre de dents Zähnezahl number of teeth										
0.15	96	100	160	100	160	100	160				
0.20	96	100	160	100	160	100	160	100			
0.25	96	100	160	*	160	100	160	100	120	120	
0.30	96	100	160	*	160	100	160	100	120	120	
0.35	96	100	160	*	160	100	160	100	120	120	
0.40	96	100	160	*	160	100	160	100	120	120	
0.50	96	100	160	100	160	100	160	100	120	120	128
0.60	96	100	160	100	160	100	160	100	120	120	128
0.70	96	100	160	100	160	100	160	100	120	120	128
0.80	96	100	160	100	160	100	160	100	120	120	128
0.90	96	100	160	100	160	100	160	100	120	120	128
1.00	96	100	160	100	160	100	160	100	120	120	128
1.20	96	100	160	100	160	100	160	100	120	120	128
1.50	96	100	160	100	160	100	160	100	120	120	128
2.00	96	100	160	100	160	100	160	100	120	120	128
2.50	96	100	160	100	160	100	160	100	120	120	128
3.00	96	100	160	100	160	100	160	100	120	120	128

*=voir type 1101
*=siehe Typ 1101
*=see type 1101

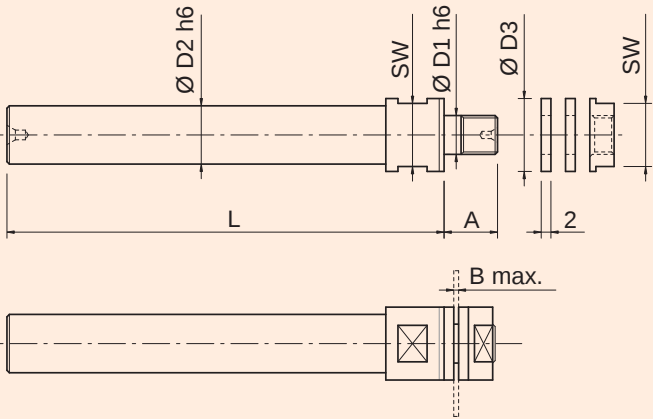
Revêtement sur demande
Beschichtung auf Anfrage
Coating on request

Tasseaux porte-fraise avec serrage avant
Fräsdorne (Spannung von vorne)
Milling arbors with front clamping

Type 2810

Tasseaux pour rotation à droite (serrage avant avec filet à droite)
Fräsdorne für Drehrichtung rechts (Spannung von vorne mit Rechtsgewinde)
Arbors for right hand rotation (front clamping with right hand thread)

R

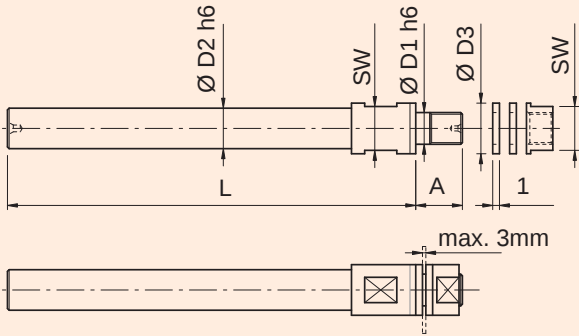


D1	D2	D3	L	A	SW	B	Art. N°
5.0	6	10	70	9	8	6	2810-5-6
5.0	10	10	80	9	8	6	2810-5-10
6.0	10	12	80	9.5	10	6	2810-6-10
8.0	10	15	80	10	13	6	2810-8-10
8.0	12	15	90	10	13	6	2810-8-12
10.0	6	18	80	10.5	15	6	2810-10-6
10.0	10	18	80	10.5	15	6	2810-10-10
10.0	16	18	100	10.5	15	6	2810-10-16
13.0	16	22	110	11	19	6	2810-13-16
16.0	10	22	80	8	19	3	2810-16-10
16.0	20	26	120	12	22	6	2810-16-20

Type 2815

Tasseaux pour très petites fraises circulaires
Fräsdorne für sehr kleine Kreissägeblätter
Arbors for very small slitting saws

R



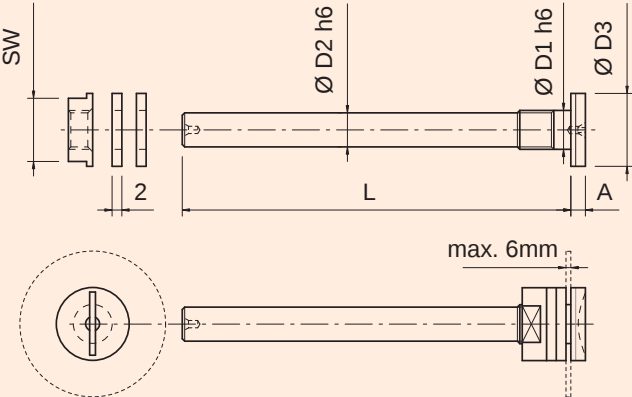
D1	D2	D3	L	A	SW	Art. N°
3.0	5	5	60	7	4	2815-3-5
5.0	6	7.5	70	7	6	2815-5-6

Tasseaux porte-fraise avec serrage arrière
Fräsdorne (Spannung von hinten)
Milling arbors with rear clamping

Type 2820

Tasseaux pour rotation à droite (serrage arrière avec filet à gauche)
Fräsdorne für Drehrichtung rechts (Spannung von hinten mit Linksgewinde)
Arbors for right hand rotation (rear clamping with left hand thread)

R

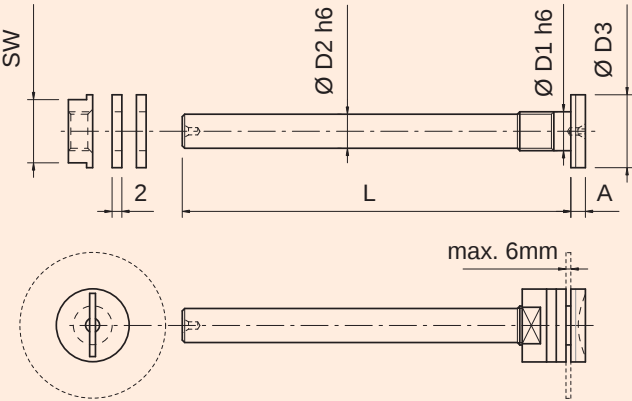


D1	D2	D3	L	A	SW	Art. N°
5.0	4	10	50	3	8	2820-5-4
6.0	5	12	60	3	10	2820-6-5
8.0	6	15	70	3	13	2820-8-6
8.0	7	15	80	3	13	2820-8-7
10.0	6	18	70	3.5	15	2820-10-6
10.0	8	18	90	3.5	15	2820-10-8
13.0	10	22	110	3.5	19	2820-13-10
16.0	12	26	120	3.5	22	2820-16-12

Type 1820

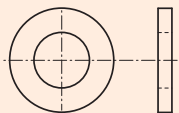
Tasseaux pour rotation à gauche (serrage arrière avec filet à droite)
Fräsdorne für Drehrichtung links (Spannung von hinten mit Rechtsgewinde)
Arobre for left hand rotation (rear clamping with right hand thread)

L

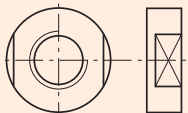


D1	D2	D3	L	A	SW	Art. N°
5.0	4	10	50	3	8	1820-5-4
6.0	5	12	60	3	10	1820-6-5
8.0	6	15	70	3	13	1820-8-6
10.0	6	18	70	3.5	15	1820-10-6

Pièces de rechange
Ersatzteile
Spare parts



Art. N°
1820-D1*-a
2810-D1*-a
2815-D1*-a
2820-D1*-a



Art. N°
1820-D1*-b
2810-D1*-b
2815-D1*-b
2820-D1*-b

*Diamètre D1 à spécifier
*Durchmesser D1 angeben
*Diameter D1 to be specified

Chaque tasseau est livré avec 2 entretoises et 1 écrou
Jeder Fräsdorn wird mit 2 Abstandsrings und 1 Mutter geliefert
2 distance rings and 1 nut are included with each arbor

Molettes en métal dur
Vollhartmetall-Rändelrädchen
Solid carbide knurling wheels

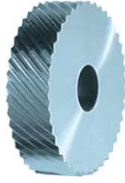
Type 1107



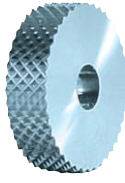
AA



BL



BR



GE

molettes standards Standard-Rändelrädchen standard knurls	Ø	épaisseur Dicke thickness	alésage Bohrung bore	pas (tous les 0.1 mm) Teilung (alle 0.1 mm) pitch (every 0.1 mm)
AA (0°) BL 15° / BR 15° BL 30° / BR 30° BL 45° / BR 45° GE 30° GE 45°	8	2	3	0.2 - 0.6
	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

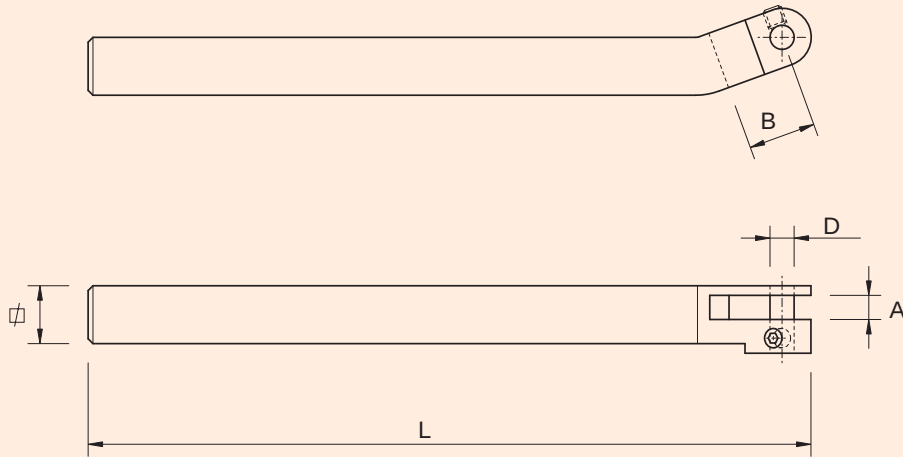
molettes "Quick" "Quick"-Rändelrädchen "Quick" knurling wheels	Ø	épaisseur Dicke thickness	alésage Bohrung bore	pas (tous les 0.1 mm) Teilung (alle 0.1 mm) pitch (every 0.1 mm)
AA (0°)	8.9	2.5	4	0.2 - 0.8
BL 15° / BR 15°	14.5	3	5	0.4 - 1.0
BL 30° / BR 30°	21.5	5	8	0.5 - 1.2

Exécutions spéciales sur demande
Sonderausführungen auf Anfrage
Specials execution on request

Porte-molettes
Rändelhalter
Knurl holders

Type 2402

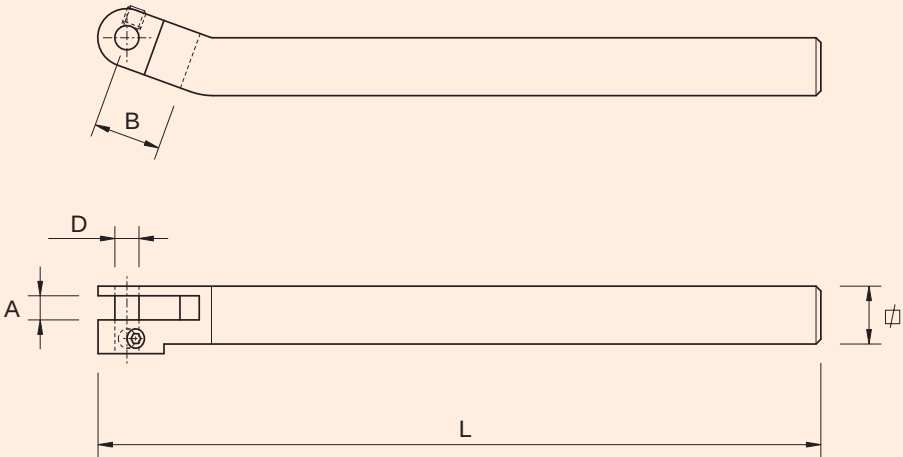
R



Ø	L	A	D	B	Art. N°
6 x 6	132	2	3	10	2402-623
6 x 6	132	3	3	10	2402-633
7 x 7	140	2	3	10	2402-723
7 x 7	140	3	3	10	2402-733
7 x 7	140	4	3	10	2402-743
7 x 7	140	2	4	10	2402-724
7 x 7	140	3	4	10	2402-734
7 x 7	140	4	4	10	2402-744
8 x 8	140	2	3	10	2402-823
8 x 8	140	3	3	10	2402-833
8 x 8	140	4	3	10	2402-843
8 x 8	140	2	4	10	2402-824
8 x 8	140	3	4	10	2402-834
8 x 8	140	4	4	10	2402-844
10 x 10	150	3	3	10	2402-1033
10 x 10	150	4	3	10	2402-1043
10 x 10	150	3	4	10	2402-1034
10 x 10	150	4	4	10	2402-1044
12 x 12	150	4	4	12	2402-1244
12 x 12	150	5	4	12	2402-1254
12 x 12	150	4	5	12	2402-1245
12 x 12	150	5	5	12	2402-1255
16 x 16	150	4	4	12	2402-1644
16 x 16	150	4	5	12	2402-1645
16 x 16	150	5	5	12	2402-1655
16 x 16	150	6	4	12	2402-1664
16 x 16	150	6	6	12	2402-1666
16 x 16	150	8	6	12	2402-1686

Type 1402

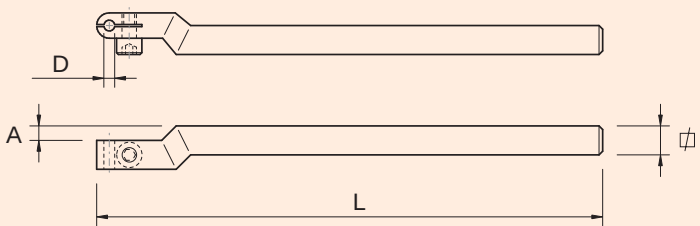
L



Ø	L	A	D	B	Art. N°
6 x 6	132	2	3	10	1402-623
6 x 6	132	3	3	10	1402-633
7 x 7	140	2	3	10	1402-723
7 x 7	140	3	3	10	1402-733
7 x 7	140	4	3	10	1402-743
7 x 7	140	2	4	10	1402-724
7 x 7	140	3	4	10	1402-734
7 x 7	140	4	4	10	1402-744
8 x 8	140	2	3	10	1402-823
8 x 8	140	3	3	10	1402-833
8 x 8	140	4	3	10	1402-843
8 x 8	140	2	4	10	1402-824
8 x 8	140	3	4	10	1402-834
8 x 8	140	4	4	10	1402-844
10 x 10	150	3	3	10	1402-1033
10 x 10	150	4	3	10	1402-1043
10 x 10	150	3	4	10	1402-1034
10 x 10	150	4	4	10	1402-1044
10 x 10	150	5	4	10	1402-1054
12 x 12	150	4	4	12	1402-1244
12 x 12	150	5	4	12	1402-1254
12 x 12	150	4	5	12	1402-1245
12 x 12	150	5	5	12	1402-1255
16 x 16	150	4	4	12	1402-1644

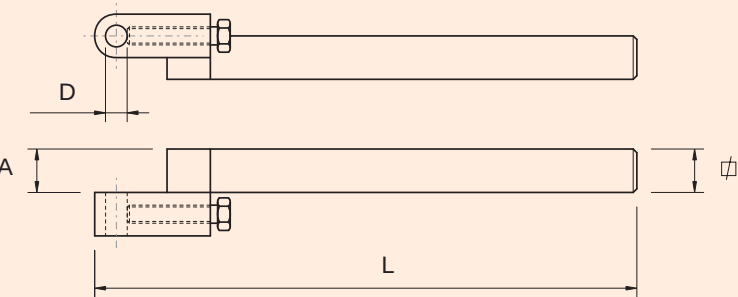
Porte-outils
Werkzeughalter
Tool holders

Type 1400-J L



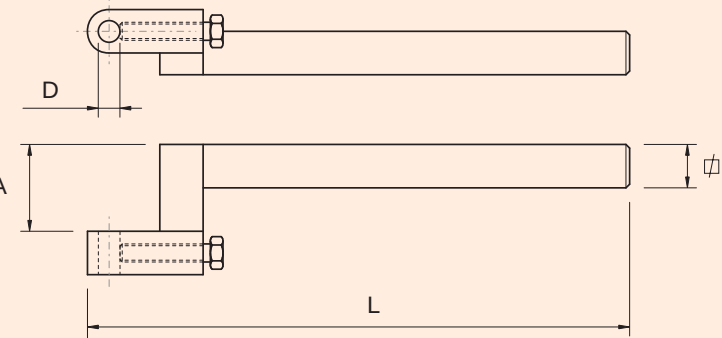
Φ	L	A	D	Art. N°
6 x 6	132	3	1.5	1400-J-615
6 x 6	132	3	2.0	1400-J-620
6 x 6	132	3	3.0	1400-J-630
7 x 7	140	3	1.5	1400-J-715
7 x 7	140	3	2.0	1400-J-720
7 x 7	140	3	3.0	1400-J-730
8 x 8	140	4	1.5	1400-J-815
8 x 8	140	4	2.0	1400-J-820
8 x 8	140	4	3.0	1400-J-830

Type 1401-K L



Φ	L	A	D	Art. N°
7 x 7	146	7	2.0	1401-K-720
7 x 7	146	7	3.0	1401-K-730
7 x 7	146	7	4.0	1401-K-740
8 x 8	146	8	2.0	1401-K-820
8 x 8	146	8	3.0	1401-K-830
8 x 8	146	8	4.0	1401-K-840
8 x 8	146	8	5.0	1401-K-850
8 x 8	146	8	6.0	1401-K-860
10 x 10	150	10	4.0	1401-K-1040
10 x 10	150	10	5.0	1401-K-1050
10 x 10	150	10	6.0	1401-K-1060
10 x 10	150	10	7.0	1401-K-1070
12 x 12	150	12	4.0	1401-K-1240
12 x 12	150	12	5.0	1401-K-1250
12 x 12	150	12	6.0	1401-K-1260
12 x 12	150	12	8.0	1401-K-1280
14 x 14	150	14	4.0	1401-K-1440
14 x 14	150	14	6.0	1401-K-1460
14 x 14	150	14	8.0	1401-K-1480

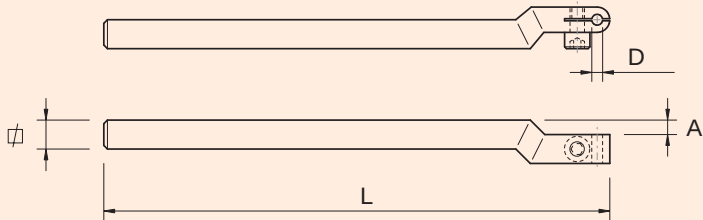
Type 1420 L



Φ	L	A	D	Art. N°
7 x 7	146	12	4.0	1420-7124
8 x 8	146	12	4.0	1420-8124
8 x 8	146	14	3.0	1420-8143
8 x 8	146	15	5.0	1420-8155
8 x 8	146	20	5.0	1420-8205
10 x 10	150	20	6.0	1420-10206
12 x 12	150	18	6.0	1420-12186
12 x 12	150	18	8.0	1420-12188
12 x 12	150	24	8.0	1420-12248
14 x 14	150	20	8.0	1420-14208
14 x 14	150	24	8.0	1420-14248

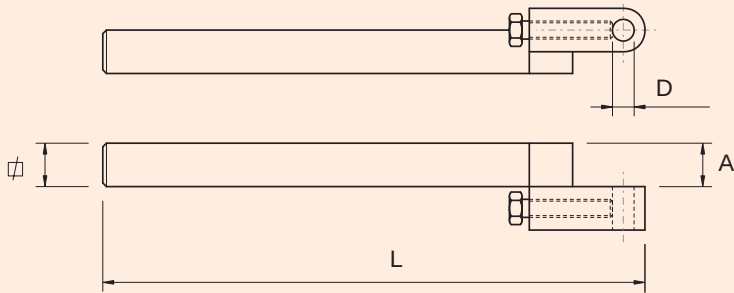
Porte-outils
Werkzeughalter
Tool holders

Type 2400-J R



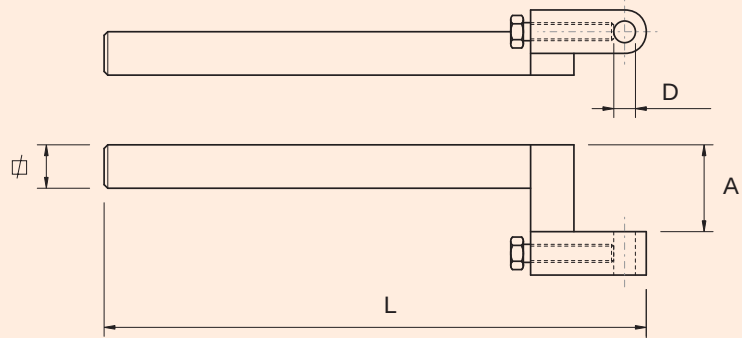
Φ	L	A	D	Art. N°
6 x 6	132	3	1.5	2400-J-615
6 x 6	132	3	2.0	2400-J-620
6 x 6	132	3	3.0	2400-J-630
7 x 7	140	3	1.5	2400-J-715
7 x 7	140	3	2.0	2400-J-720
7 x 7	140	3	3.0	2400-J-730
8 x 8	140	4	1.5	2400-J-815
8 x 8	140	4	2.0	2400-J-820
8 x 8	140	4	3.0	2400-J-830

Type 2401-K R



Φ	L	A	D	Art. N°
7 x 7	146	7	3.0	2401-K-730
7 x 7	146	7	4.0	2401-K-740
8 x 8	146	8	3.0	2401-K-830
8 x 8	146	8	4.0	2401-K-840
8 x 8	146	8	5.0	2401-K-850
8 x 8	146	8	6.0	2401-K-860
10 x 10	150	10	3.0	2401-K-1030
10 x 10	150	10	4.0	2401-K-1040
10 x 10	150	10	5.0	2401-K-1050
10 x 10	150	10	6.0	2401-K-1060
10 x 10	150	10	7.0	2401-K-1070
12 x 12	150	12	3.0	2401-K-1230
12 x 12	150	12	4.0	2401-K-1240
12 x 12	150	12	5.0	2401-K-1250
12 x 12	150	12	6.0	2401-K-1260
12 x 12	150	12	8.0	2401-K-1280
14 x 14	150	14	4.0	2401-K-1440
14 x 14	150	14	6.0	2401-K-1460
14 x 14	150	14	8.0	2401-K-1480

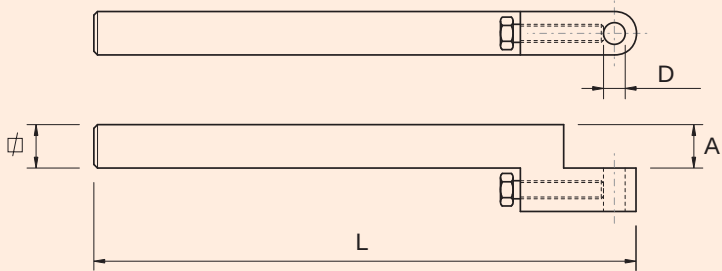
Type 2420 R



Φ	L	A	D	Art. N°
7 x 7	146	12	4.0	2420-7124
8 x 8	146	12	4.0	2420-8124
8 x 8	146	14	3.0	2420-8143
8 x 8	146	15	5.0	2420-8155
8 x 8	146	20	5.0	2420-8205
10 x 10	150	20	6.0	2420-10206
12 x 12	150	18	6.0	2420-12186
12 x 12	150	24	8.0	2420-12248
14 x 14	150	20	8.0	2420-14208
14 x 14	150	24	8.0	2420-14248

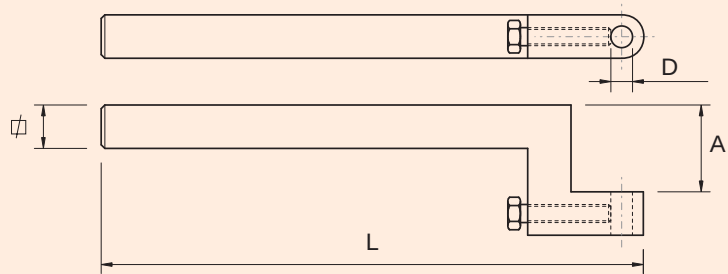
Porte-outils
Werkzeughalter
Tool holders

Type 2405



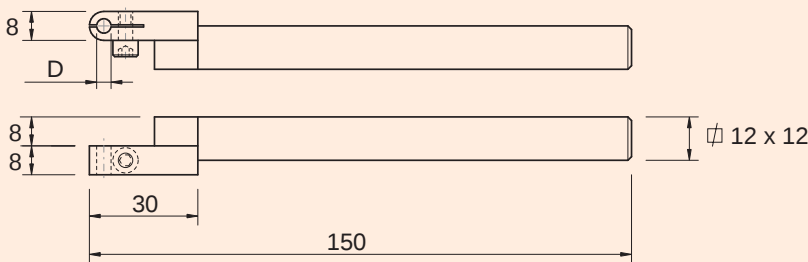
Φ	L	A	D	Art. N°
8 x 8	120	8	3.0	2405-K-830
8 x 8	120	8	4.0	2405-K-840
8 x 8	120	8	5.0	2405-K-850
8 x 8	120	8	6.0	2405-K-860
10 x 10	100	10	4.0	2405-K-1040
10 x 10	100	10	5.0	2405-K-1050
10 x 10	100	10	6.0	2405-K-1060
12 x 12	150	12	4.0	2405-K-1240
12 x 12	150	12	6.0	2405-K-1260
12 x 12	150	12	8.0	2405-K-1280

Type 2425



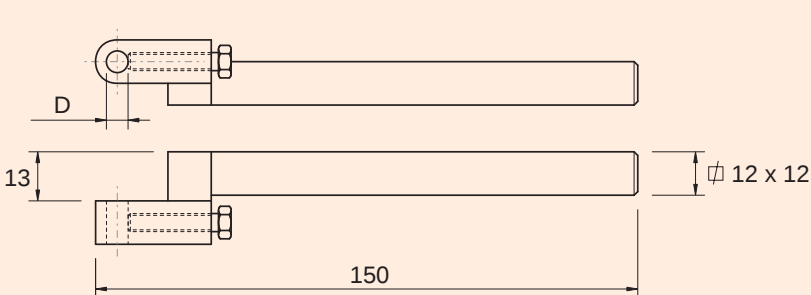
Φ	L	A	D	Art. N°
8 x 8	120	12	4.0	2425-8124
8 x 8	120	15	5.0	2425-8155
8 x 8	120	20	5.0	2425-8205
10 x 10	100	15	6.0	2425-10156
10 x 10	100	20	6.0	2425-10206
12 x 12	150	18	6.0	2425-12186
12 x 12	150	24	8.0	2425-12248

Type 1450 special ENC 16/164 L Φ 12 x 12



D	Art. N°
4.0	1450-4
5.0	1450-5

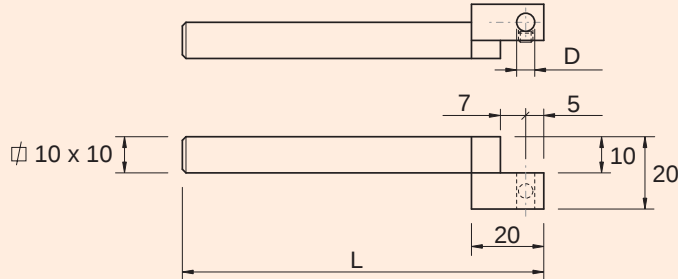
Type 1460 special ENC 16/164 L Φ 12 x 12



D	Art. N°
4.0	1460-4
5.0	1460-5
6.0	1460-6
8.0	1460-8

Porte-outils
Werkzeughalter
Tool holders

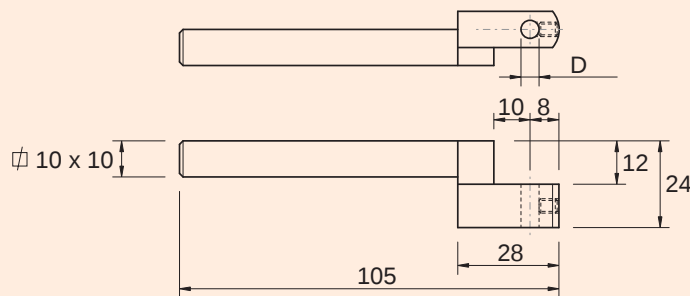
Type 2450-SP R Φ 10 x 10



D	L	Art. N°
3.0	100	2450-SP-3
4.0	100	2450-SP-4
5.0	100	2450-SP-5
6.0	100	2450-SP-6

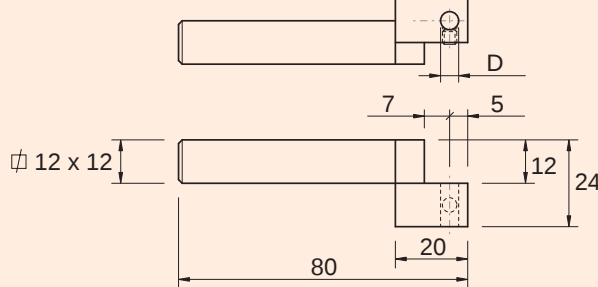
3.0	120	2450-SP-3-120
4.0	120	2450-SP-4-120
5.0	120	2450-SP-5-120
6.0	120	2450-SP-6-120

Type 2470 R Φ 10 x 10



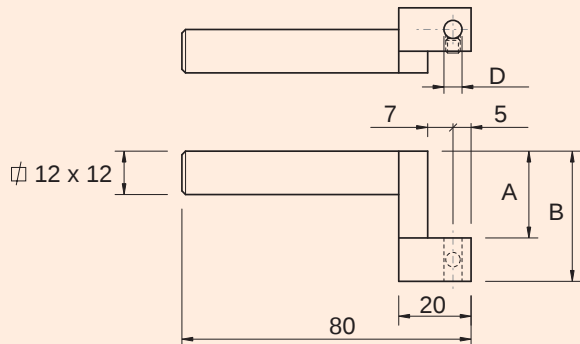
D	Art. N°
3.0	2470-3
4.0	2470-4
5.0	2470-5
6.0	2470-6
7.0	2470-7

Type 2450 R Φ 12 x 12



D	Art. N°
3.0	2450-3
4.0	2450-4
5.0	2450-5
6.0	2450-6
8.0	2450-8

Type 2460 R Φ 12 x 12



A	B	D	Art. N°
16	28	4.0	2460-284
16	28	6.0	2460-286
16	28	8.0	2460-288
20	32	4.0	2460-324
20	32	6.0	2460-326
20	32	8.0	2460-328
24	36	4.0	2460-364
24	36	6.0	2460-366
24	36	8.0	2460-388

Porte-outils
Werkzeughalter
Tool holders

Type 2441

Pour usinage côté contre-broche
Für die Bearbeitung auf der Gegenspindel-Seite
For machining on subspindle side

$\varnothing$ 12 x 16

D	Art. N°
3.0	2441-0-3
4.0	2441-0-4
5.0	2441-0-5
6.0	2441-0-6

Type 2440-0

Pour usinage côté contre-broche
Für die Bearbeitung auf der Gegenspindel-Seite
For machining on subspindle side

$\varnothing$ 16 x 16

D	Art. N°
3.0	2440-0-3
4.0	2440-0-4
5.0	2440-0-5
6.0	2440-0-6
8.0	2440-0-8

**Types 2440-8
2440-12**

$\varnothing$ 16 x 16

A	D	Art. N°
8	3.0	2440-8-3
8	4.0	2440-8-4
8	5.0	2440-8-5
8	6.0	2440-8-6
8	8.0	2440-8-8
12	3.0	2440-12-3
12	4.0	2440-12-4
12	5.0	2440-12-5
12	6.0	2440-12-6
12	8.0	2440-12-8

**Types 2440-18
2240-26**

$\varnothing$ 16 x 16

18	4.0	2440-18-4
18	5.0	2440-18-5
18	6.0	2440-18-6
18	8.0	2440-18-8
26	4.0	2440-26-4
26	5.0	2440-26-5
26	6.0	2440-26-6
26	8.0	2440-26-8

**Outil d'arrosage
Werkzeug für Kühlmittel-Zufuhr
Tool for coolant supply**

Type 2490

$\varnothing$ 12 x 16

Raccord
Anschluss
connection
Ø 6 - G1/8

Art. N°
2490

Porte-outils monoblocs pour machine TORNOS DECO 7/10
Monoblock-werkzeughalter für TORNOS DECO 7/10 Maschine
Monobloc tool holders for machine TORNOS DECO 7/10

Type 2435

D	Art. N°
3.0	2435-3
4.0	2435-4
5.0	2435-5
6.0	2435-6

Type 2435-T

D (2x)	Art. N°
3.0	2435-3-T
4.0	2435-4-T
5.0	2435-5-T
6.0	2435-6-T

Porte-outils monoblocs pour machine TORNOS DECO 13
Monoblock-Werkzeughalter für TORNOS DECO13 Maschine
Monobloc tool holders for machine TORNOS DECO13

Type 2436

A	D	Art. N°
12	3.0	2436-12-3
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

Type 2436-T

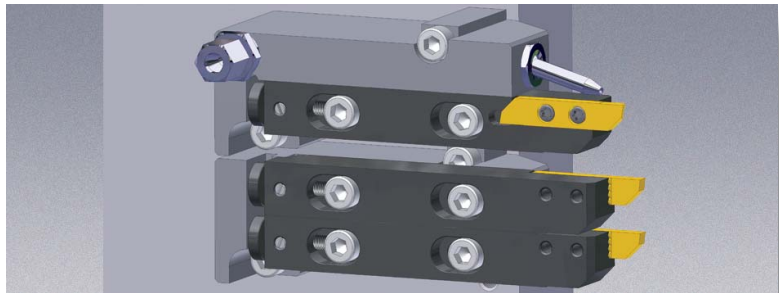
A	D (2x)	Art. N°
12	3.0	2436T-12-3
12	4.0	2436T-12-4
12	5.0	2436T-12-5
12	6.0	2436T-12-6
18	3.0	2436T-18-3
18	4.0	2436T-18-4
18	5.0	2436T-18-5
18	6.0	2436T-18-6

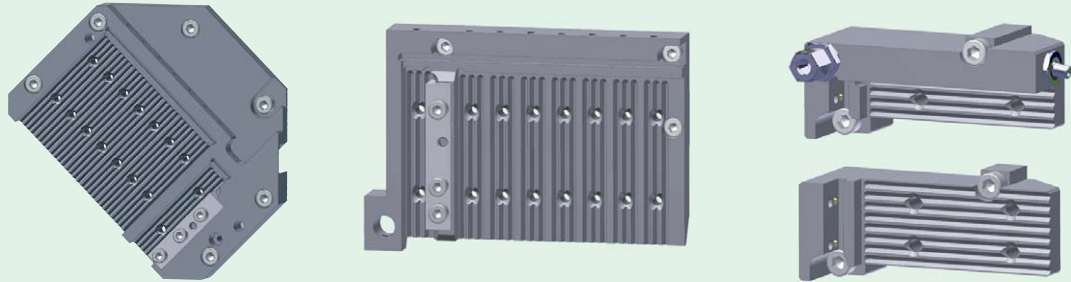
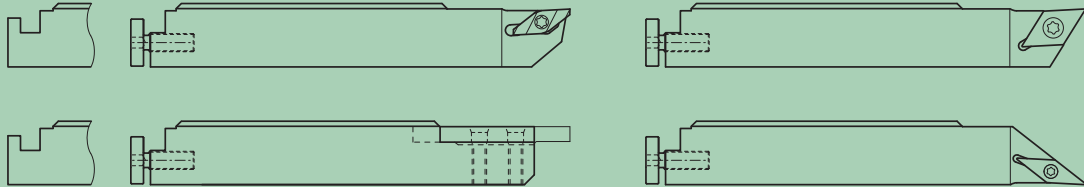
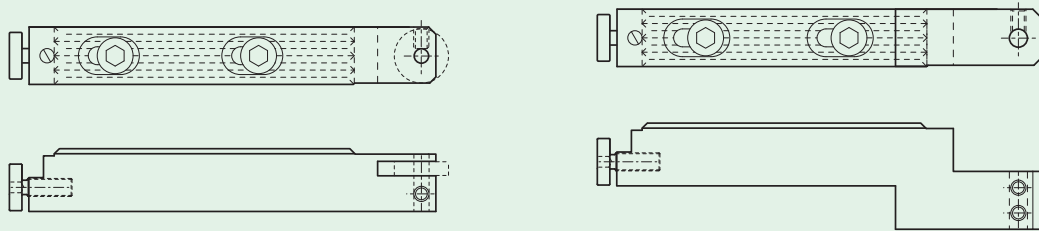
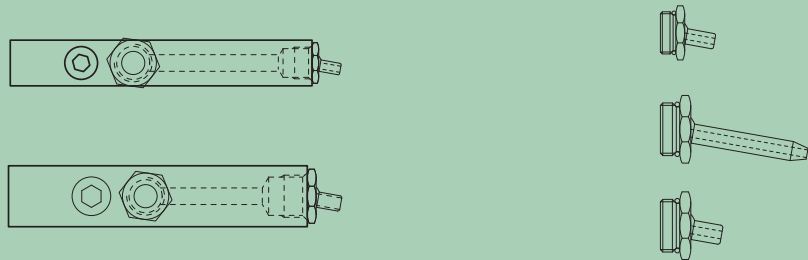
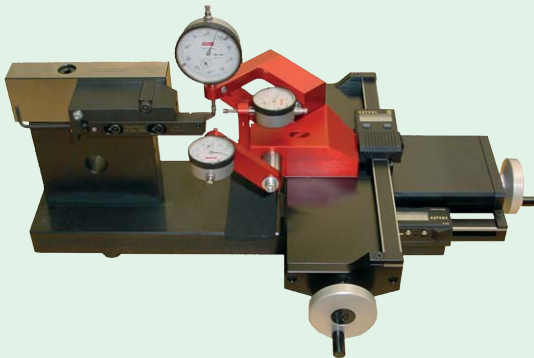
**Entretoise
Erhöhungsplatte
Spacer**

Type 2436-S12

Art. N°
2436-S12

MODU-LINE



	page Seite page
INFO	6.02
	6.03 - 6.09
	6.10 - 6.12
	6.12
	6.13
	6.14
pièces de rechange Ersatzteile spare parts	6.15

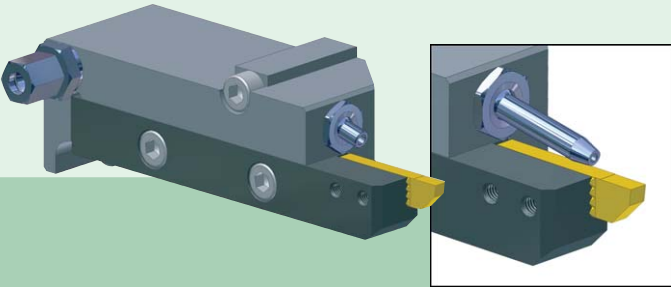
Système d'outils modulaire
Vielseitiges Werkzeugsystem
Modular tooling system

Les avantages
die Vorteile
the advantages

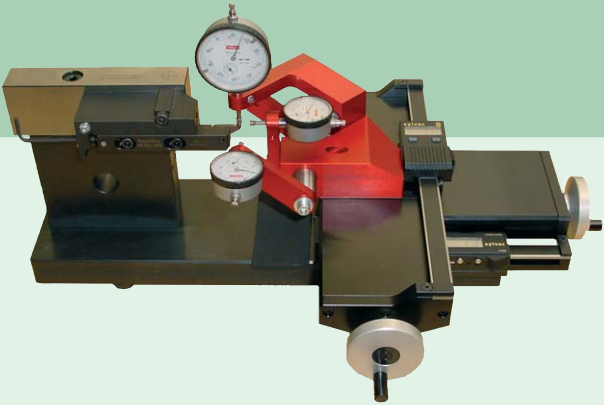
plus d'outils disponibles
höhere Werkzeuganzahl
more tools available



système d'arrosage efficace
effizientes Kühlmittelzufuhr System
efficient coolant supply system

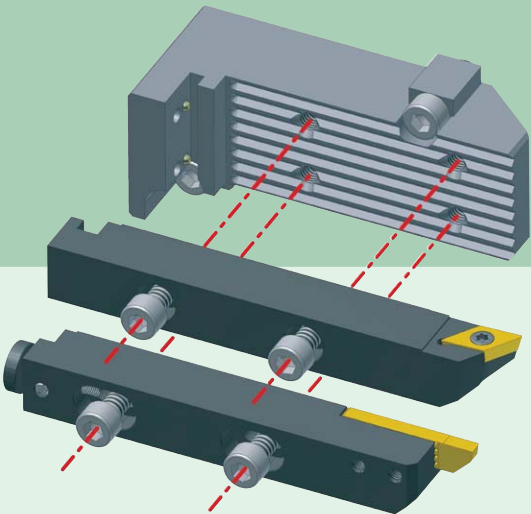


changement d'outil simple et rapide
einfacher und schneller Werkzeugwechsel
easy and quick tool replacement

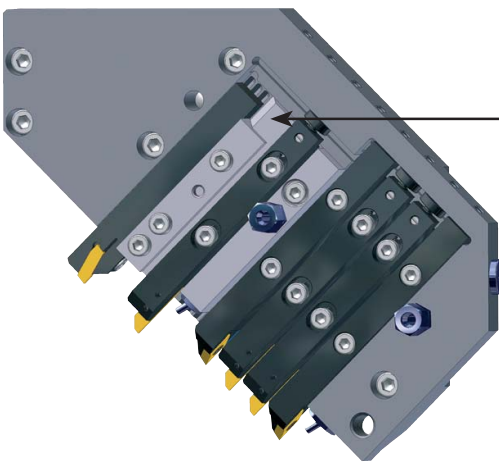
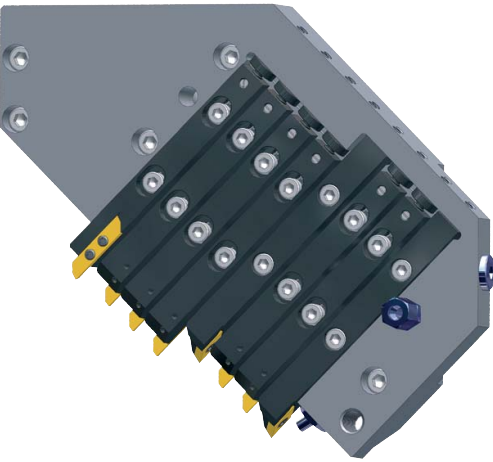


possibilité de pré réglage et de réglage de la longueur
des outils
voreinstellbar auf feste oder einstellbare Länge
presetting on fixed or adjustable length

système de fixation robuste et rigide
robustes und starres Spannsystem
strong and stable clamping system



système compatible avec d'autres fabricants
Werkzeugsystem kompatibel zu anderen Lieferanten
standard system compatible with other suppliers

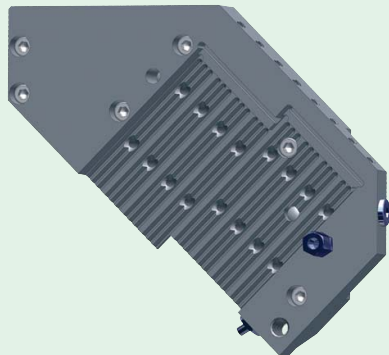
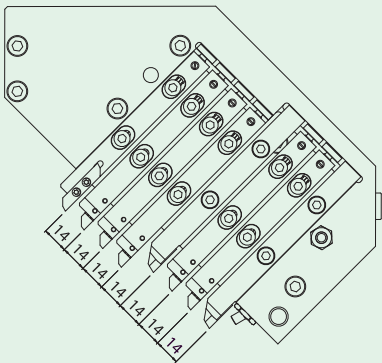


Module de serrage pour outil
standard de section carrée

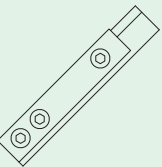
Spannelement für standard
Vierkant-Werkzeug

Clamping unit for standard
square shank tool

Plaque porte-outils Werkzeugplatte Tool holder plate	Citizen-Cincom C12 / C16	max bis up to	8 outils Werkzeuge tools	ML12	Module de serrage Spannelement clamping unit
--	-----------------------------	---------------------	-----------------------------------	------	--

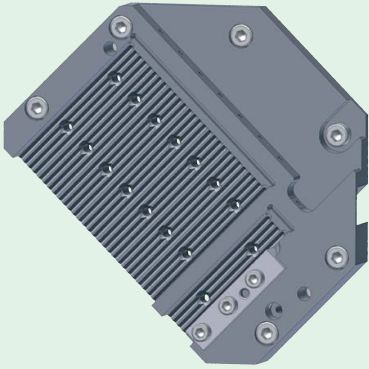
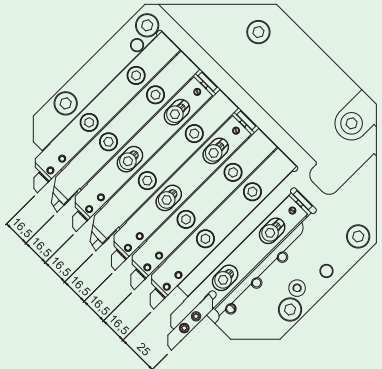


Art. N°
ML12-CITIZEN-C16

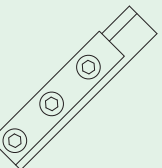


Art. N°
ML12-FIX-12/14

Plaque porte-outils Werkzeugplatte Tool holder plate	Citizen-Cincom K12 / K16 type VII	max bis up to	8 outils Werkzeuge tools	ML16	Module de serrage Spannelement clamping unit
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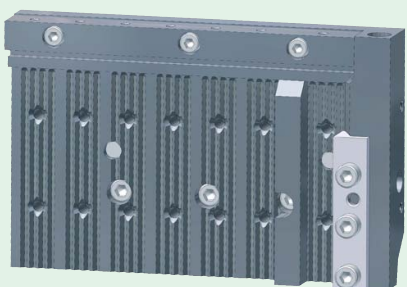
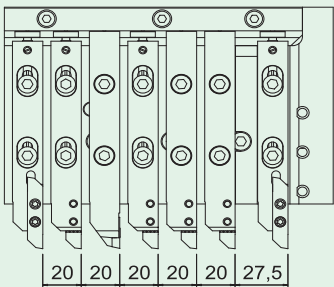


Art. N°
ML16-CITIZEN-K16

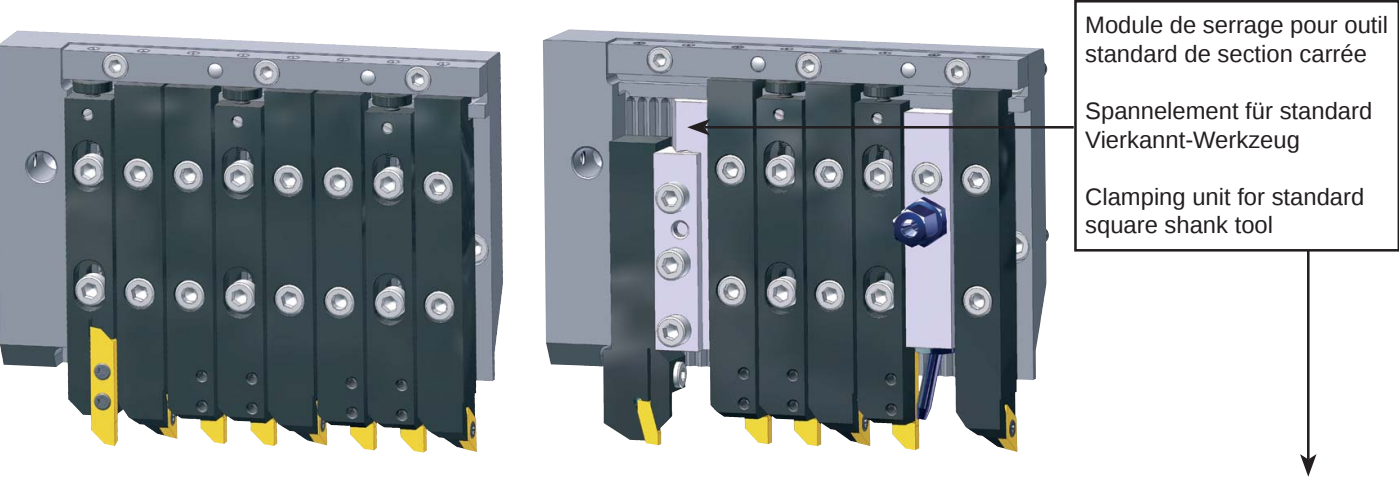


Art. N°
ML16-FIX-16/16.5

Plaque porte-outils Werkzeugplatte Tool holder plate	Citizen-Cincom L16 / L20 type VII / VIII	max bis up to	7 outils Werkzeuge tools	ML16	
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Art. N°
ML16-CITIZEN-L20



Plaquette porte-outils
Werkzeugplatte
Tool holder plate

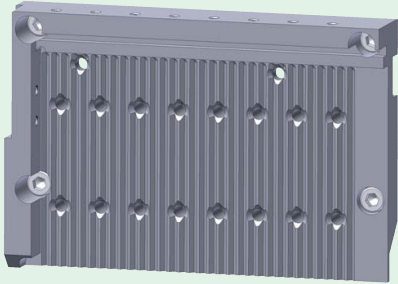
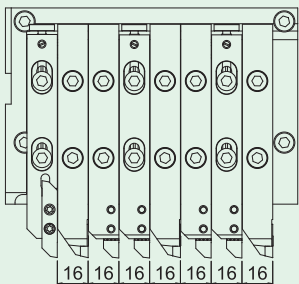
Star
SA-12 / SA-16 /
SA-16R

max
bis
up to

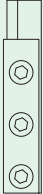
8
outils
Werkzeuge
tools

ML16

Module de serrage
Spannelement
clamping unit



Art. N°
ML16-STAR-SA16



Art. N°
ML16-FIX-16/16

Plaquette porte-outils
Werkzeugplatte
Tool holder plate

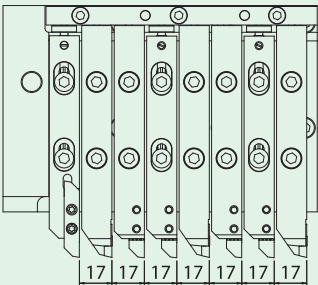
Star
SB-16

max
bis
up to

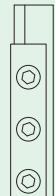
8
outils
Werkzeuge
tools

ML16

Module de serrage
Spannelement
clamping unit



Art. N°
ML16-STAR-SB16



Art. N°
ML16-FIX-16/17

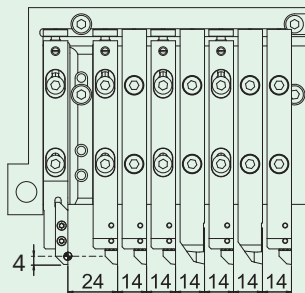
Plaquette porte-outils
Werkzeugplatte
Tool holder plate

Star
SR10J

max
bis
up to

8
outils
Werkzeuge
tools

ML12



Art. N°
ML12-STAR-SR10J



Plaquette porte-outils
Werkzeugplatte
Tool holder plate

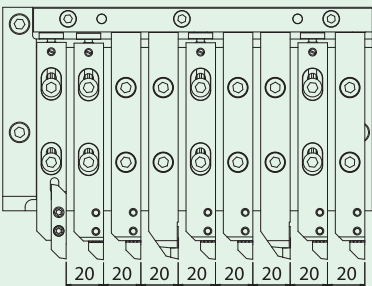
Star
SR-16R / SR-20R
SR-20RII

max
bis
up to

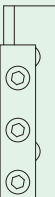
9
outils
Werkzeuge
tools

ML16

Module de serrage
Spannelement
clamping unit



Art. N°
ML16-STAR-SR20R



Art. N°
ML16-FIX-16/20

Plaquette porte-outils
Werkzeugplatte
Tool holder plate

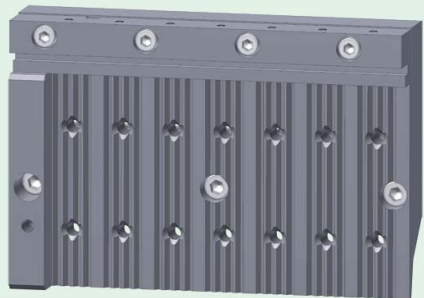
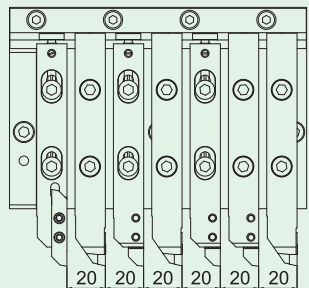
Star
SV12 / 20

max
bis
up to

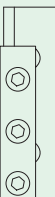
7
outils
Werkzeuge
tools

ML16

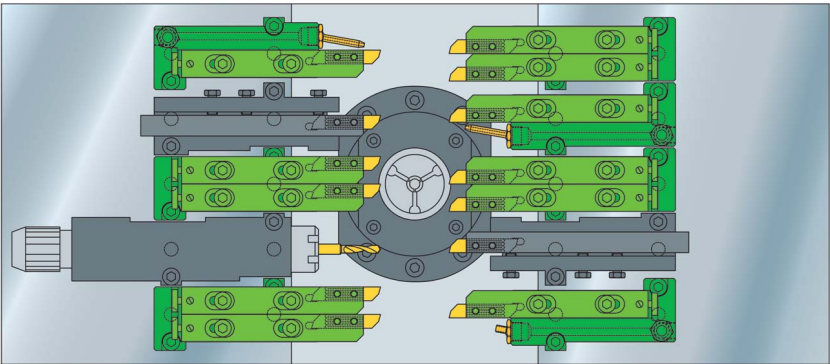
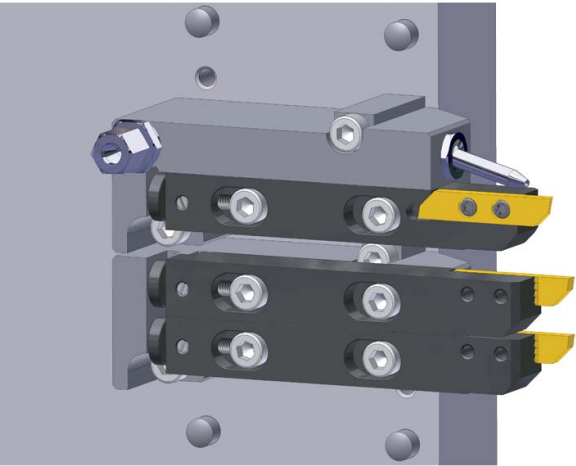
Module de serrage
Spannelement
clamping unit



Art. N°
ML16-STAR-SV12/20



Art. N°
ML16-FIX-16/20

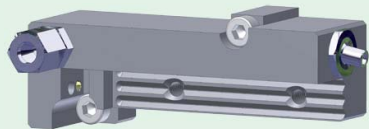
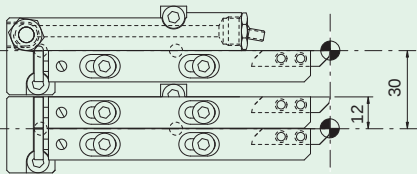


TORNOS
DECO 7 / 10

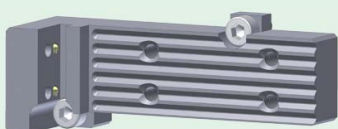
ML12

base porte-outils avec arrosage
Grundhalter mit Kühlmittel-Zufuhr
Tool holder base with coolant supply

Base porte-outils double
Doppel-Grundhalter
Twin tool holder base



Art. N°
ML12-DECO10-JET



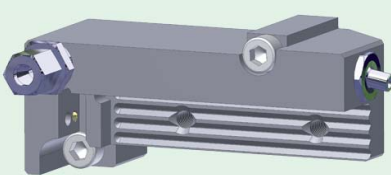
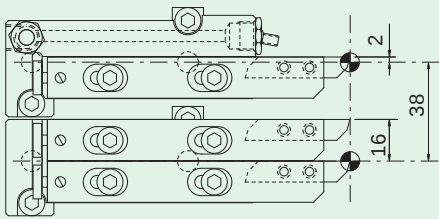
Art. N°
ML12-DECO10-DUO

TORNOS
DECO 13

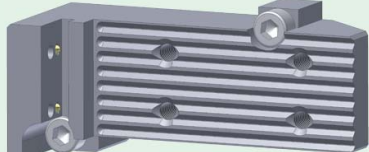
ML16

base porte-outils avec arrosage
Grundhalter mit Kühlmittel-Zufuhr
Tool holder base with coolant supply

Base porte-outils double
Doppel-Grundhalter
Twin tool holder base



Art. N°
ML16-DECO13-JET



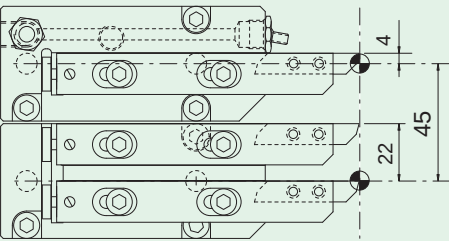
Art. N°
ML16-DECO13-DUO

TORNOS
DECO 20 / 26

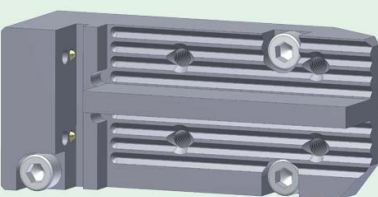
ML16

base porte-outils avec arrosage
Grundhalter mit Kühlmittel-Zufuhr
Tool holder base with coolant supply

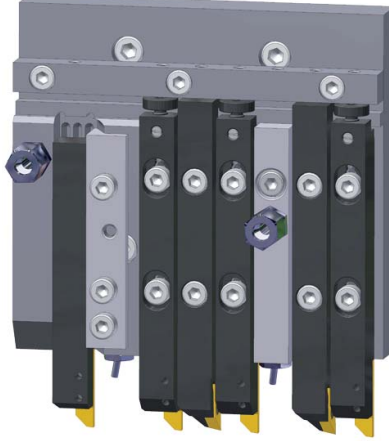
Base porte-outils double
Doppel-Grundhalter
Twin tool holder base



Art. N°
ML16-DECO20-JET



Art. N°
ML16-DECO20-DUO

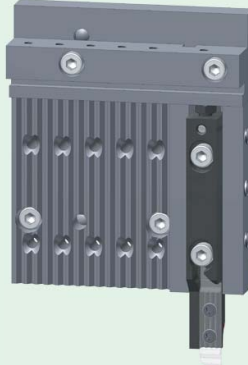
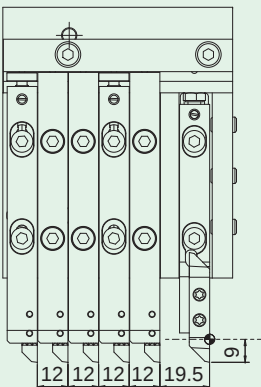


Plaque porte-outils
Werkzeugplatte
Tool holder plate

**TORNOS
MICRO 7**

max
bis
up to **6** outils
Werkzeuge
tools

ML12



Art. N°
ML12-MICRO-7

outil de tronçonnage pour plaquette type 750R fourni
Abstechwerkzeug für WSP Typ 750R mitgeliefert
Parting off tool for insert type 750R included

voir pages
siehe Seiten
see pages

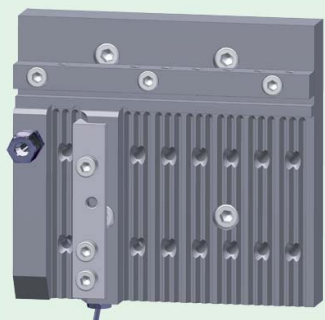
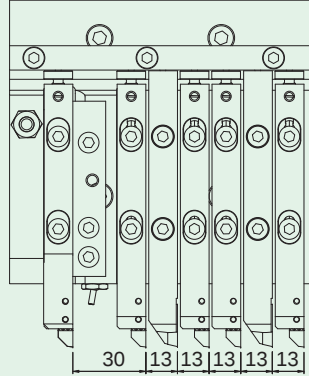
1.71
(1.45 / 1.47)

Plaque porte-outils
Werkzeugplatte
Tool holder plate

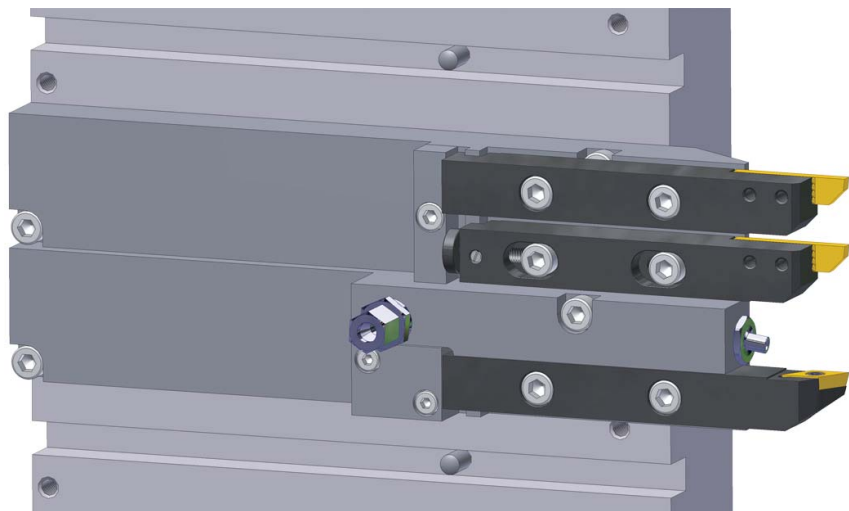
**TORNOS
MICRO 8**

max
bis
up to **7** outils
Werkzeuge
tools

ML12



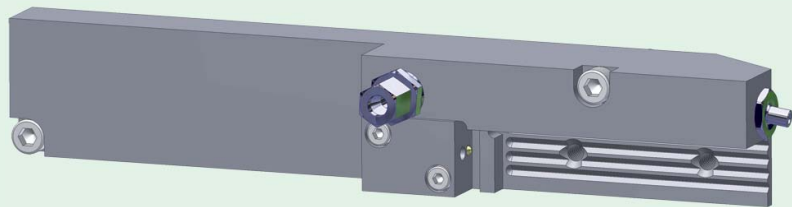
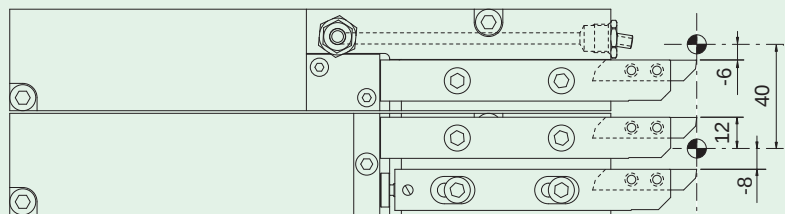
Art. N°
ML12-MICRO-8



DECO
SIGMA 20

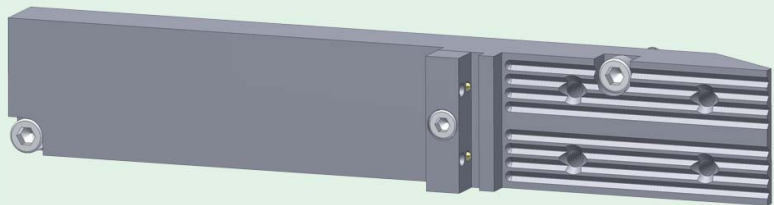
ML16

Bases porte-outils
Grundhalter
Tool holder bases



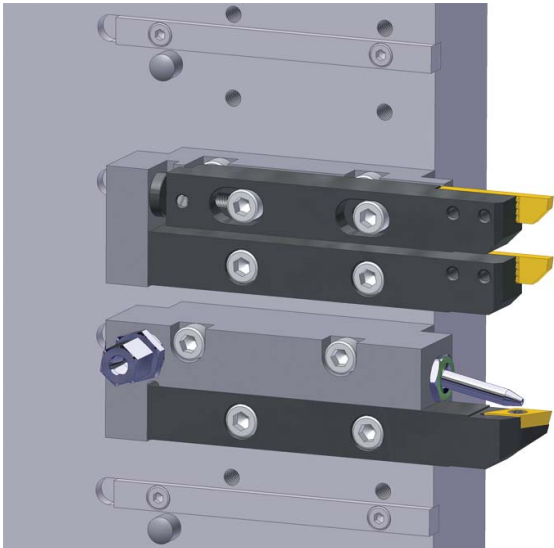
base porte-outils avec arrosage
Grundhalter mit Kühlmittel-Zufuhr
Tool holder base with coolant supply

Art. N°
ML16-S20-JET



Base porte-outils double
Doppel-Grundhalter
Twin tool holder base

Art. N°
ML16-S20-DUO

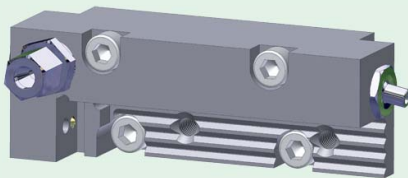
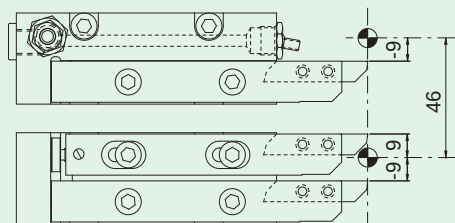


KMX 426 / 526 / 626
SWING 20 - 26 mm

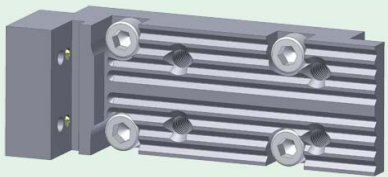
ML16

base porte-outils avec arrosage
Grundhalter mit Kühlmittel-Zufuhr
Tool holder base with coolant supply

Base porte-outils double
Doppel-Grundhalter
Twin tool holder base



Art. N°
ML16-KMX26-JET



Art. N°
ML16-KMX26-DUO

Porte-plaquettes
WSP-Halter
Insert holders

f = longueur fixe
Fixlänge
fixed length

a = réglable
einstellbar
adjustable

ML12

12 x 15 mm

ML16

16 x 16 mm

Pour plaquettes
type...

Für WSP-Type...

For inserts type...

page
Seite
page

Art. N°

Art. N°

TOP-LINE

type 347 - 349

1.13

1.15

ML12a-340

ML16a-340

ML12f-340

ML16f-340

ML12a-740

ML16a-740

ML12f-740

ML16f-740

TOP-LINE

type 741 - 747

1.25

1.35

ML12a-740-C

ML12f-740-C

TOP-LINE

type 741 - 747

1.25

1.35

ML12a-760

ML16a-760

ML12f-760

ML16f-760

TOP-LINE

type 761 - 767

1.41

1.57

ML16a-760-C

ML16f-760-C

TOP-LINE

type 761 - 767

1.41

1.57

ML12a-SCLCR09

ML16a-SCLCR09

ML12f-SCLCR09

ML16f-SCLCR09

ISO-LINE

CC...09T03..

(type 12..)

3.12

3.13

ML12a-SDJCR07

ML16a-SDJCR07

ML12f-SDJCR07

ML16f-SDJCR07

ISO-LINE

DC...0702..

(type 13..)

3.18

3.19

ML12a-SDJCR11

ML16a-SDJCR11

ML12f-SDJCR11

ML16f-SDJCR11

ISO-LINE

DC...11T3..

(type 14..)

3.18

3.19

ML12a-SVJCR11

ML16a-SVJCR11

ML12f-SVJCR11

ML16f-SVJCR11

ISO-LINE

VC...1103..

(type 16..)

3.24

3.25

ML12a-260

ML16a-260

ML12f-260

ML16f-260

ECO-LINE

type 261 - 266

4.05

4.09

Porte-plaquettes
WSP-Halter
Insert holders

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

a = réglable
einstellbar
adjustable

ML12

12 x 15 mm

ML16

16 x 16 mm

Pour plaquettes
type...

Für WSP-Typ...

For inserts
type...

page
Seite
page

Art. N°

Art. N°

ML12a-330-V

ML16a-330-V

TOP-LINE

type 337 - 339

1.12

1.14

ML12a-730-V

ML16a-730-V

TOP-LINE

type 731R

731 - 737

1.29

1.26-1.34

ML12a-730RC

TOP-LINE

type 731R

1.29

ML12a-750-V

ML16a-750-V

TOP-LINE

type 751R

751 - 757

1.45/1.47

1.40-1.56

ML16a-750RC

TOP-LINE

type 751R

1.45

1.47

ML12a-SDJCL11-V

ML16a-SDJCL11-V

ISO-LINE

DC...11T3..

(type 14..)

3.18

3.19

ML12a-SVJCL11-V

ML16a-SVJCL11-V

ISO-LINE

VC...1103..

(type 16..)

3.24

3.25

ML12a-250-V

ML16a-250-V

ECO-LINE

type 251 R /

251 - 256

4.04

-

4.08

Porte-plaquettes
WSP-Halter
Insert holders

f = longueur fixe
Fixlänge
fixed length

a = réglable
einstellbar
adjustable

ML16 16 x 16 mm	Pour plaquettes type...	
	Für WSP-Type...	
	For inserts type...	
Art. N°		page Seite page
ML16a-SDNCN11	ISO-LINE DC...11T3..	3.18
ML16f-SDNCN11	(type 14..)	3.19
ML16a-SVVCN11	ISO-LINE VC...1103	3.24
ML16f-SVVCN11	(type 16..)	3.25

Porte-outils
Werkzeughalter
Tool holders

a = réglable
einstellbar
adjustable

L / R

A	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
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

a = réglable
einstellbar
adjustable

L / R

A	D	B	Art. N°
4	4	8	ML12a-2402-44
4	4	11	ML16a-2402-44

ML12

Module d'arrosage
Kühlmittel-Zufuhr element
Coolant supply unit

ML16

Raccord
Anschluss
connection

Ø 6 - G1/8

buse d'arrosage
Kühlmitteldüse
coolant nozzle

5/16"
Ø 1.6 x 6

Art. N°

ML12-JET-5/16

Raccord
Anschluss
connection

Ø 6 - G1/8

buse d'arrosage
Kühlmitteldüse
coolant nozzle

7/16"
Ø 3 x 6

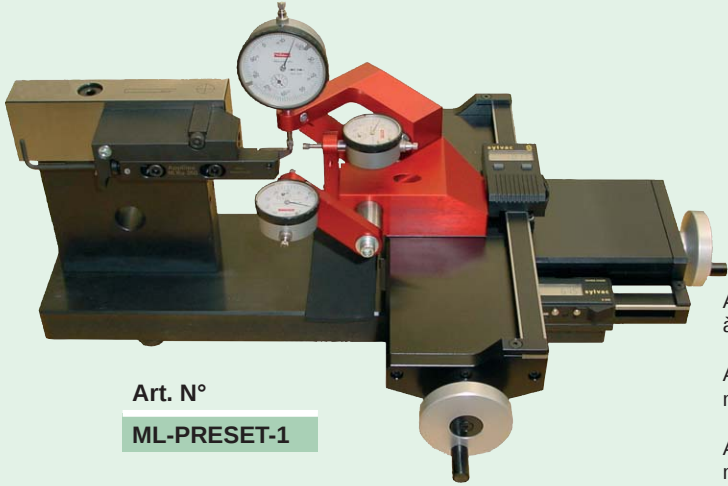
Art. N°

ML16-JET-7/16

buse d'arrosage
Kühlmitteldüse
coolant nozzle

	Art. N°	Références compatibles kompatible Artikeln compatible items
5/16"		
	ML-JET 5/16 1.0x6	ML12-MICRO-8 ML12-JET-5/16
	ML-JET 5/16 1.6x6	une buse ML-JET 5/16 1.6x6 est comprise avec chacun de ces articles. eine Düse ML-JET 5/16 1.6x6 ist mit jedem Artikel inbegriffen.
	ML-JET 5/16 2.2x0	a nozzle ML-JET 5/16 1.6x6 is included with each item.
7/16"		
	ML-JET 7/16 1.0x6	ML12-CITIZEN-C16 ML12-DECO10-JET ML16-DECO13-JET ML16-DECO20-JET ML16-S20-JET ML16-KMX26-JET ML16-JET-7/16
	ML-JET 7/16 1.6x6	une buse ML-JET 7/16 3.0x6 est comprise avec chacun de ces articles. eine Düse ML-JET 7/16 3.0x6 ist mit jedem Artikel inbegriffen.
	ML-JET 7/16 1.6x24	a nozzle ML-JET 7/16 3.0x6 is included with each item.
	ML-JET 7/16 3.0x6	

Banc de pré réglage
Voreinstellgerät
Presetting device



Art. N°
ML-PRESET-1

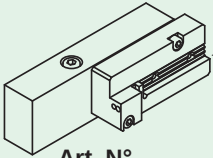
Adaptateurs et jauges d'étalonnage
à commander séparément

Adapter und Einstell-Lehren
müssen separat bestellt werden

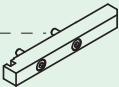
Adaptors and master gauges
must be ordered separately

Adaptateurs et jauges d'étalonnage
Adapter und Einstell-Lehren
Adaptors and master gauges

ML12

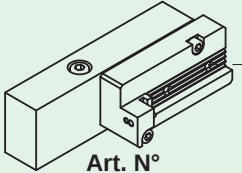


Art. N°
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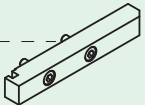


Art. N°
ML12-MASTER

ML16

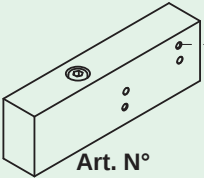


Art. N°
ML16-ADAPT

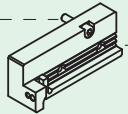


Art. N°
ML12-MASTER

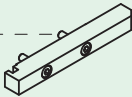
TORNOS DECO 10
+ ML12



Art. N°
ML-AD1-DECO10

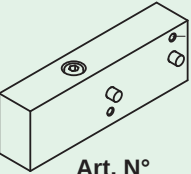


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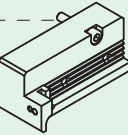


Art. N°
ML12-MASTER

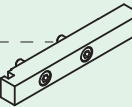
TORNOS DECO 13
+ ML16



Art. N°
ML-AD1-DECO13

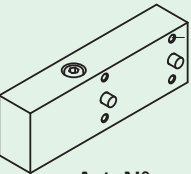


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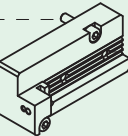


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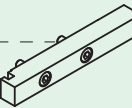
TORNOS DECO 20/26
+ ML16



Art. N°
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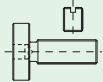
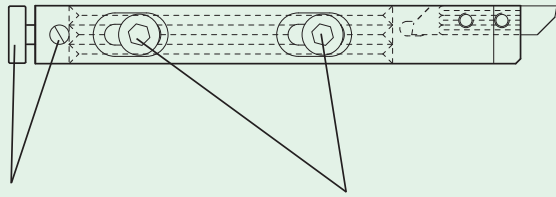
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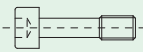
Art. N°
ML16-MASTER

pièces de rechange
Ersatzteile
spare parts

ML12



vis de réglage
Einstellungsschraube
setting screw



vis de fixation
Befestigungsschraube
fixing screw

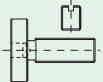
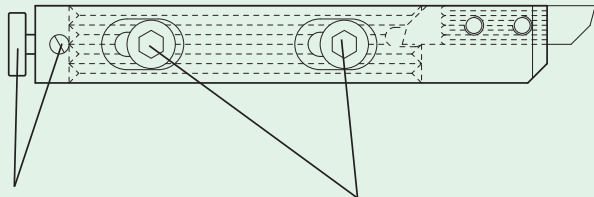
Art. N°

ML12a-M5x0.5

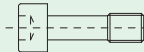
Art. N°

ML12-M5xL20

ML16



vis de réglage
Einstellungsschraube
setting screw



vis de fixation
Befestigungsschraube
fixing screw

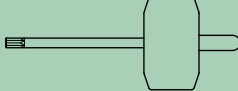
Art. N°

ML16a-M5x0.5

Art. N°

ML16-M6xL20

Vis et clés pour le serrage des plaquettes
Schrauben und Schlüssel für WSP-Befestigung
screws and keys for insert clamping

porte-outils Halter holders		
ML...-250	V-M4x9-T15	T15
ML...-260	V-M4x9-T15	T15
ML...-330	V-M2.5x7.8-T8	T8
ML...-340	V-M2.5x7.8-T8	T8
ML...-730	V-M3x7-T8	T8
ML...-730RC	V-M3x5.5-T8	T8
ML...-740	V-M3x7-T8	T8
ML...-750	V-M4x9-T15	T15
ML...-750RC	V-M4x7.3-T15	T15
ML...-760	V-M4x9-T15	T15
ML...-SC...09	V-M4x9-T15-ISO	T15
ML...-SD...07	V-M2.5x7.8-T8	T8
ML...-SD...11	V-M4x9-T15-ISO	T15
ML...-SV...11	V-M2.5x7.8-T8	T8

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