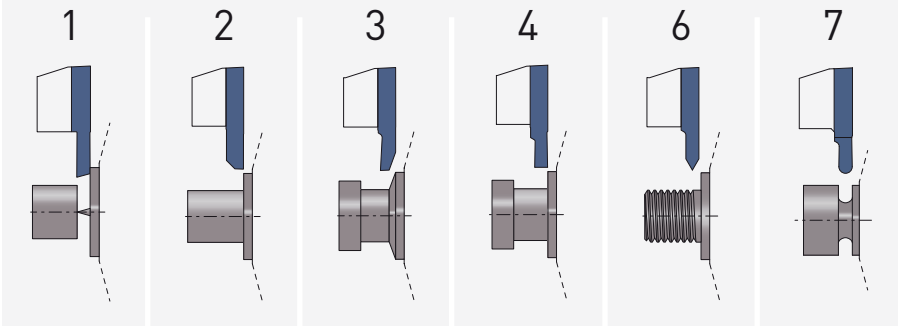
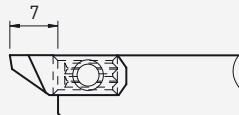


ONE-Line



APPLITEC
CUTTING TOOLS

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Nuances Sorten Grades			> 3.06
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1	3	4	X	-	2.0	-	R20	-	KST
			Géométrie de coupe Schneidgeometrie Cutting geometry	Dimension Abmessung Dimension		Rayon Radius Radius		Nuance Sorte Grade	
				brise-copeaux Spanbrecher chip breaker		particularités Sondereigenschaften special features			
Géométrie d'usinage Bearbeitungsgeometrie Machining geometry									
1 2 3 4 6 7 									
Gamme de produit Produktserie Product series			définit la compatibilité des plaquettes avec le porte-outils definiert die Kompatibilität der Wendschneidplatten mit dem Werkzeughalter define the compatibility of the inserts with the toolholder						
L = 3			(chiffre impair / ungerade Zahl / uneven number)						
R = 4			(chiffre pair / gerade Zahl / even number)						
L 130			R 140						
Applitec série 100 Applitec 100 Serie Applitec 100 series			Système de serrage à denture décalée avec 1 vis de fixation Spannsystem mit 1 Schraube und verschobener Verzahnung Shifted teeth clamping system with 1 screw						

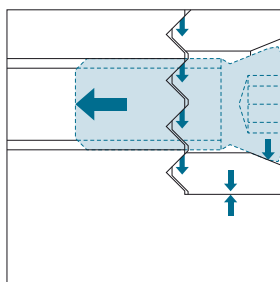
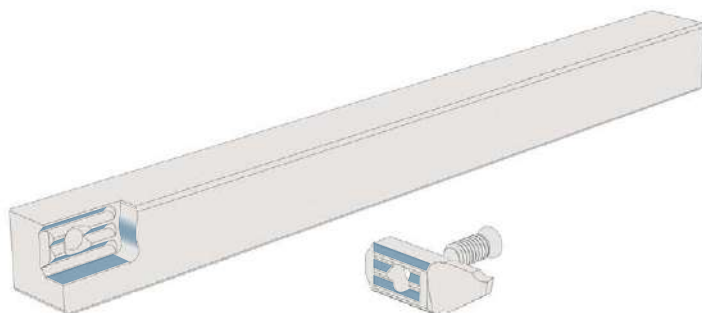
Infos et avantages

Infos und Vorteile

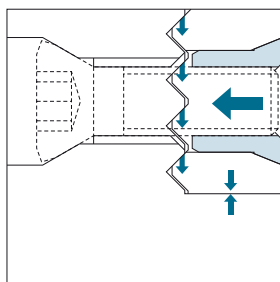
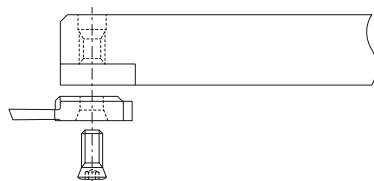
Infos and advantages

Rigid !

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

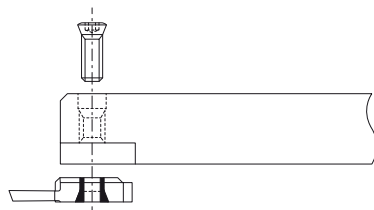


Serrage standard (A)
Standard Spannsystem (A)
Standard clamping system (A)



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

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

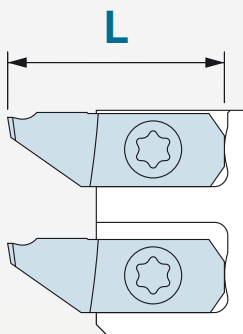


Changement de la plaquette possible dans la machine, sans démontage du porte-outil
WSP-Austauschmöglichkeit in der Maschine ohne Halterausbau
The insert can be changed in the machine without removing the tool holder

* = sur demande / auf Anfrage / on request

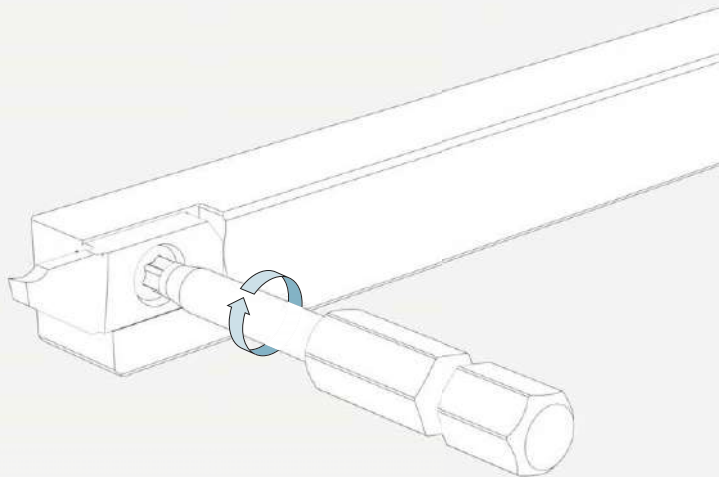
Space requirement

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



Optimal clamping

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



Nuances

Sorten

Grades

μK10 - μK20	KN 	☐ K10 - K20 Non revêtu Unbeschichtet Uncoated	P ★★★★★ M ★★★★★ N ★★★★★ S ★★★★★
	• nuance de base non revêtue micro-grain alliant une très bonne résistance à l'usure et ténacité • recommandé pour l'usinage des matières ne nécessitant aucun revêtement par exemple le titane pur	• unbeschichtete Basis-Nuance mit feiner Körnung, die eine sehr gute Verschleißfestigkeit und Zähigkeit vereint • empfohlen für die Bearbeitung von Materialien, die keine Beschichtung erfordern, wie z. B. reines Titan	• uncoated base grade with fine grain, combining excellent wear resistance and toughness • recommended for machining materials that require no coating, such as pure titanium
μK10 - μK20	KTA 	☐ K10 - K20 μK10 - μK20 + revêtement PVD μK10 - μK20 + PVD Beschichtung μK10 - μK20 + PVD coating TF — F — ● M — E	P ★★★★★ M ★★★★★ N ★★★★★ S ★★★★★
	• nuance universelle • 1^{er} choix pour l'usinage des aciers, aciers inoxydables et alliage de titane	• universelle Sorte • erste Wahl für die Bearbeitung von Stahl, rostfreiem Stahl und Titanlegierungen	• universal grade • first choice for machining steel, stainless steel, and titanium alloys
μK10 - μK20	KST 	☐ K10 - K20 μK10 - μK20 + revêtement PVD μK10 - μK20 + PVD Beschichtung μK10 - μK20 + PVD coating TF — F — ● M — E	P ★★★★★ M ★★★★★ N ★★★★★ S ★★★★★
	• nuance très résistante à l'usure et à la température • 1^{er} choix pour les aciers > 50 HRC, les alliages à base de nickel, chrome-cobalt, inox et titane allié	• sehr verschleiß- und temperaturbeständige Sorte • erste Wahl für Stähle > 50 HRC, Nickelbasislegierungen, Chrom-Kobalt, Edelstahl und legiertes Titan	• highly wear- and temperature-resistant grade • first choice for steels > 50 HRC, nickel-based alloys, chrome-cobalt, stainless steels, and alloyed titanium

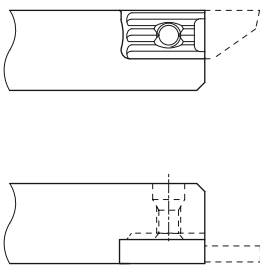
Paramètres de coupe indicatifs

Empfohlene Schnittwerte

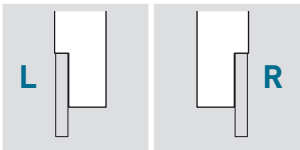
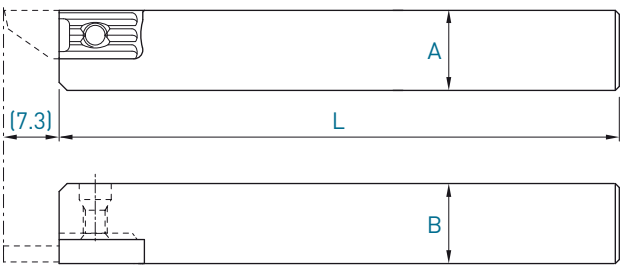
Standard machining data

Matière Werkstoff Material		Tournage Drehen Turning			Tronçonnage Abstechen Parting off		
		VC	Prof. de passe Schnitttiefe Depth of cut	Avance Vorschub Feed	VC	Largeur de coupe Abstechbreite Cutting width	Avance Vorschub Feed
		(m/min)	(mm)	(mm/U)	(m/min)	(mm)	(mm/U)
Acier de décolletage Automatenstahl Free-cutting steel	P	120 - 200	0.05 - 1.0 1.0 - 4.0	0.01 - 0.15 0.05 - 0.25	80 - 150	0.50 - 1.50 1.50 - 2.50	0.01 - 0.08 0.03 - 0.15
Acier Stahl Steel	< 600 N/mm ² P	80 - 160	0.05 - 1.0 1.0 - 4.0	0.01 - 0.15 0.05 - 0.25	70 - 120	0.50 - 1.50 1.50 - 2.50	0.01 - 0.06 0.03 - 0.12
Acier Stahl Steel	< 800 N/mm ² P	60 - 120	0.05 - 1.0 1.0 - 4.0	0.01 - 0.10 0.05 - 0.20	60 - 100	0.50 - 1.50 1.50 - 2.50	0.01 - 0.05 0.03 - 0.10
Acier Stahl Steel	> 800 N/mm ² P	50 - 100	0.05 - 1.0 1.0 - 3.0	0.01 - 0.08 0.05 - 0.15	40 - 80	0.50 - 1.50 1.50 - 2.50	0.01 - 0.04 0.03 - 0.08
Acier inoxydable Rostfreistahl Stainless steel	M	60 - 120	0.05 - 1.0 1.0 - 3.0	0.01 - 0.08 0.05 - 0.15	60 - 100	0.50 - 1.50 1.50 - 2.50	0.01 - 0.04 0.03 - 0.08
Aluminium Si <12%	N	200 - 1000	0.05 - 1.0 1.0 - 4.0	0.01 - 0.20 0.05 - 0.40	180 - 400	0.50 - 1.50 1.50 - 2.50	0.01 - 0.10 0.03 - 0.20
Aluminium Si >12%	N	180 - 800	0.05 - 1.0 1.0 - 4.0	0.01 - 0.20 0.05 - 0.40	150 - 300	0.50 - 1.50 1.50 - 2.50	0.01 - 0.10 0.03 - 0.20
Cuivre, laiton, bronze Kupfer, Messing, Bronze Copper, brass, bronze	N	100 - 500	0.05 - 1.0 1.0 - 4.0	0.01 - 0.20 0.05 - 0.35	100 - 300	0.50 - 1.50 1.50 - 2.50	0.01 - 0.10 0.03 - 0.20
Titane Titan Titanium	S	30 - 70	0.05 - 1.0 1.0 - 4.0	0.01 - 0.08 0.05 - 0.15	30 - 50	0.50 - 1.50 1.50 - 2.50	0.01 - 0.03 0.03 - 0.06

L

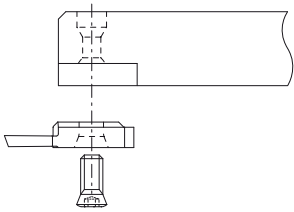


R

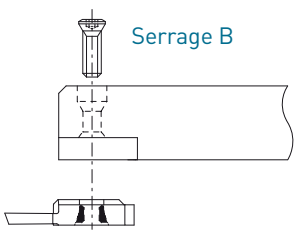


A x B	L	Serrage Spannsystem Clamping	Art. N°	Art. N°
8 x 8	115	A+B	130-8	140-8
10 x 10	115	A+B	130-10	140-10
12 x 12	115	A+B	130-12	140-12

Serrage A



Serrage B



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

Porte-outils

Halter
Holders

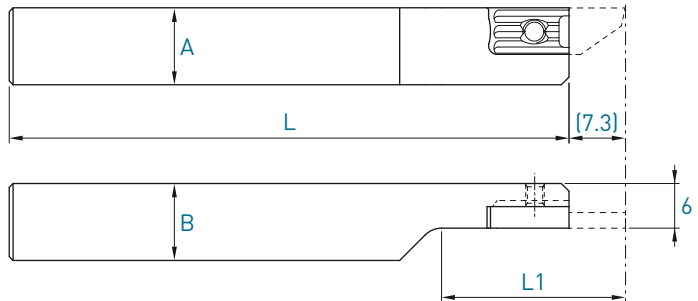
Coupe à droite déportée

Versetztes Rechtsschneiden
Right cut off line

130RC

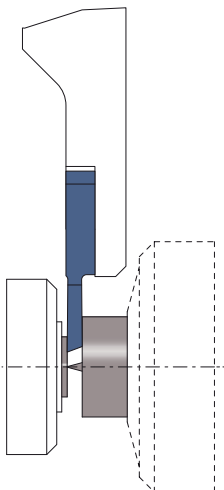
Utiliser des plaquettes type 131R
WSP Typ 131R verwenden
Use inserts type 131R

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

**L (R)**

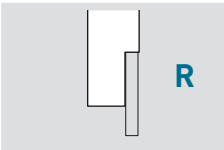
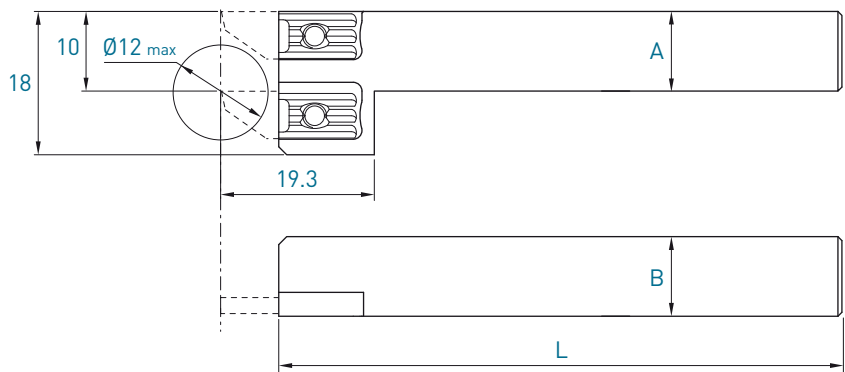
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

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



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

R



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

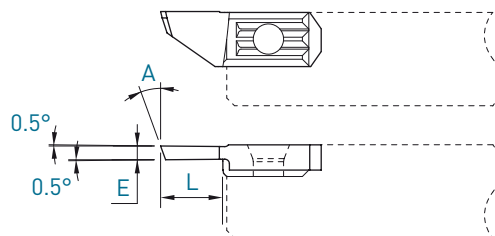
Chaque support est livré avec une ou plusieurs vis. Les clés sont à commander séparément.
Jeder Halter wird mit einer oder mehreren Schrauben geliefert. Die Schlüssel sind separat zu bestellen.
Each holder is supplied with one or more screws. The keys must be ordered separately.

Tronçonnage

Abstechen
Parting off

Coupe déportée

Versetztes Schneiden
Cut off line

131R**Cut R****L (R)**

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

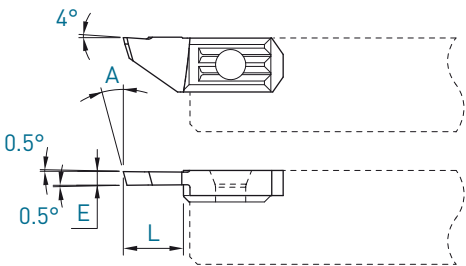
E	A	L	Art. N°	P M N S P M N S P M N S		
				KTA	KST	KN [µk10-20]
1.0	20°	5	131R-1.0-20	●	●	●
1.2	20°	5	131R-1.2-20	●	●	●
1.5	20°	7	131R-1.5-20	●	●	●
2.0	20°	7	131R-2.0-20	●	●	●

131RX4

Coupe déportée
Versetztes Schneiden
Cut off line

Tronçonnage
Abstechen
Parting off

Cut R



L (R)

Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

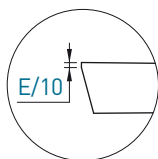
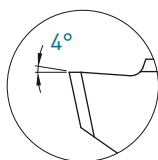
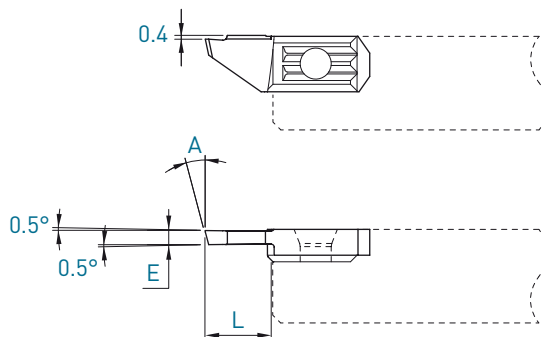
E	A	L	Art. N°	P	P	P
				M	M	M
				N	N	N
				S	S	S
				KTA	KST	KN [uk10-20]
1.0	15°	5	131RX4-1.0	●	●	●
1.5	15°	7	131RX4-1.5	●	●	●

Tronçonnage

Abstechen
Parting off

Coupe déportée

Versetztes Schneiden
Cut off line

131RXF**Cut R****L (R)**

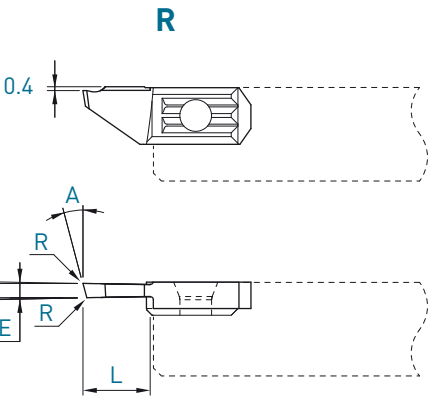
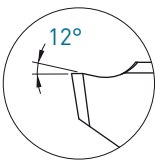
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

E	A	L	Art. N°	P M N S P M N S P M N S		
				KTA	KST	KN [µk'10-20]
1.0	15°	5	131RXF-1.0	●	●	●
1.5	15°	7	131RXF-1.5	●	●	●

131RX12

Coupe déportée
Versetztes Schneiden
Cut off line

Tronçonnage
Abstechen
Parting off



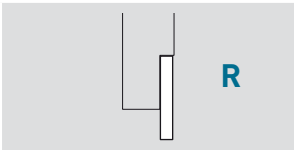
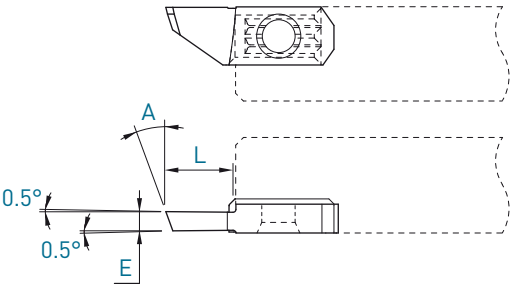
L (R)
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

E	A	L	R	Art. N°			
							
							
							
					KN 10-20		
KTA	KST						
1.0	15°	5	0.03	131RX12-1.0	●	●	●
1.5	15°	7	0.03	131RX12-1.5	●	●	●

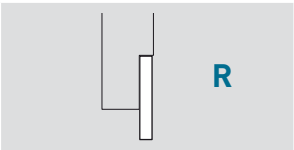
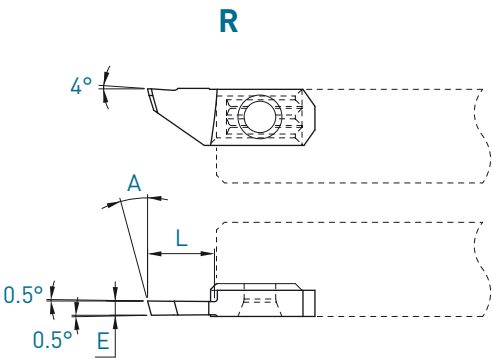
Tronçonnage
Abstechen
Parting off

141

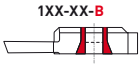
R



E	A	L	Art. N°	P M N S P M N S P M N S		
				KTA	KST	KN [µk10-20]
0.6	20°	3	141-0.6-20	●	●	●
0.8	20°	5	141-0.8-20	●	●	●
1.0	20°	5	141-1.0-20	●	●	●
1.2	20°	5	141-1.2-20	●	●	●
1.5	20°	7	141-1.5-20	●	●	●
2.0	20°	7	141-2.0-20	●	●	●
2.5	20°	7	141-2.5-20	●	●	●



E	A	L	Art. N°	P M N S P M N S P M N S		
				KTA		
				KST		
				KN (uk10-20)		
0.8	15°	5	141X4-0.8	●	●	●
1.0	15°	5	141X4-1.0	●	●	●
1.5	15°	7	141X4-1.5	●	●	●
2.0	15°	7	141X4-2.0	●	●	●



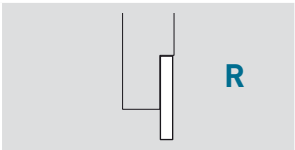
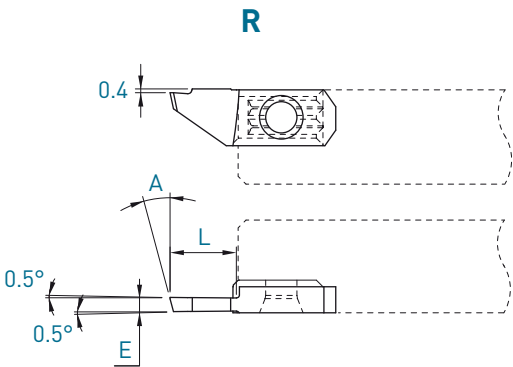
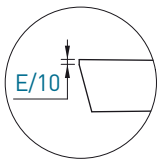
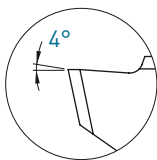
Sur demande pour serrage type B, voir page 3.04
Auf Anfrage für B-Spannsystem, siehe Seite 3.04
On request for B clamping system, see page 3.04

Tronçonnage

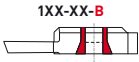
Abstechen

Parting off

141XF

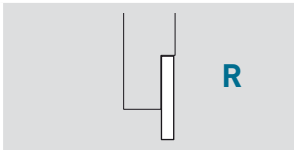
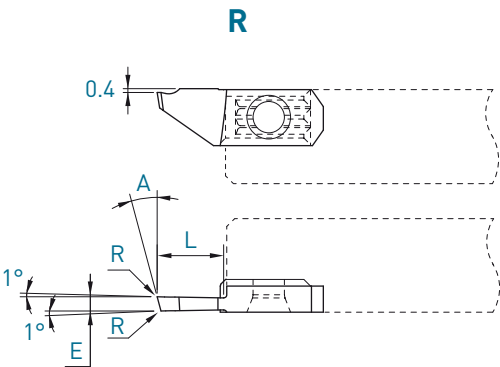
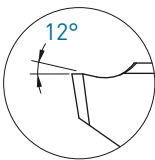


E	A	L	Art. N°	P M N S P M N S P M N S KN (p.10-20)		
				KTA	KST	KN
1.0	15°	5	141XF-1.0	•	•	•
1.2	15°	5	141XF-1.2	•	•	•
1.5	15°	7	141XF-1.5	•	•	•

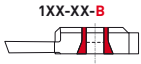


1XX-XX-B

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



E	A	L	R	Art. N°	P M N S P M N S P M N S KN (uk10-20)		
					KTA	KST	KN
0.5	15°	3	0.03	141X12-0.5	●	●	●
1.0	15°	5	0.03	141X12-1.0	●	●	●
1.5	15°	7	0.03	141X12-1.5	●	●	●

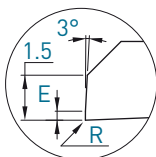
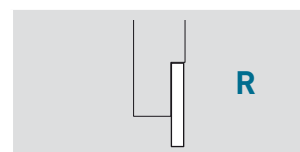
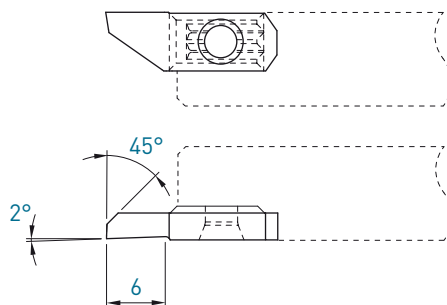


1XX-XX-B

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

Tournage avant
Vorwärts drehen
Front turning

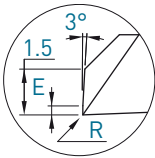
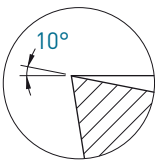
142-2

**R**

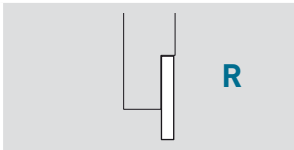
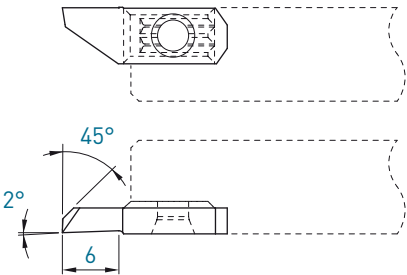
E	R	Art. N°	P M N S	P M N S	P M N S
			KTA	KST	KN [µk10-20]
0.3	0	142-2	•	•	•
0	0-0.01	142-2-R01	•	•	•
0	0.08	142-2-R08	•	•	•

1XX-XX-B

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



R



		Art. N°	P M N S	P M N S	P M N S
			KN (uk10-20)		
			KTA	KST	KN
			E	R	
0.3	0	142X10-2	●	●	●
0	0-0.01	142X10-2-R01	●	●	●
0	0.08	142X10-2-R08	●	●	●

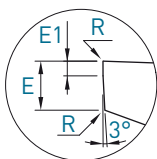
1XX-XX-B



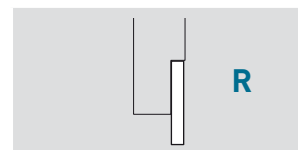
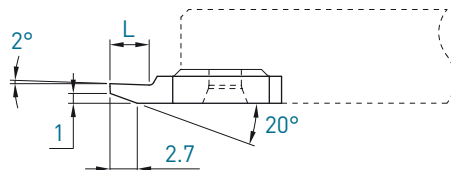
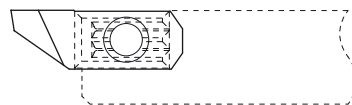
Sur demande pour serrage type B, voir page 3.04
Auf Anfrage für B-Spannsystem, siehe Seite 3.04
On request for B clamping system, see page 3.04

Tournage arrière
Rückwärts drehen
Back turning

143



R

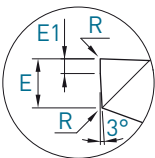
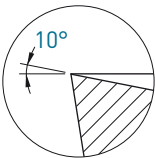


E	E1	L	R	Art. N°	P M N S P M N S P M N S		
					KTA	KST	KN [µk10-20]
0.5	0.15	3	0	143-0.5	•	•	•
0.5	0	3	0-0.01	143-0.5-R01	•	•	•
0.5	0	3	0.08	143-0.5-R08	•	•	•
1.0	0.3	4	0	143-1.0	•	•	•
1.0	0	4	0	143-1.0-R01	•	•	•
1.0	0	4	0.08	143-1.0-R08	•	•	•

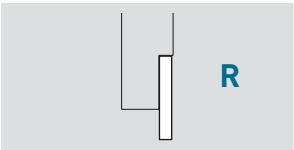
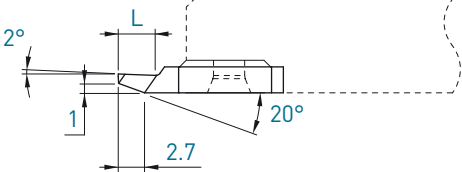
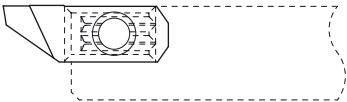
1XX-XX-B



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



R



E	E1	L	R	Art. N°	P M N S P M N S P M N S KN (uk10-20)		
					KTA	KST	KN
0.5	0.15	3	0	143X10-0.5	●	●	●
0.5	0	3	0-0.01	143X10-0.5-R01	●	●	●
0.5	0	3	0.08	143X10-0.5-R08	●	●	●
1.0	0.3	4	0	143X10-1.0	●	●	●
1.0	0	4	0-0.01	143X10-1.0-R01	●	●	●
1.0	0	4	0.08	143X10-1.0-R08	●	●	●

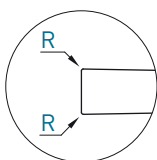
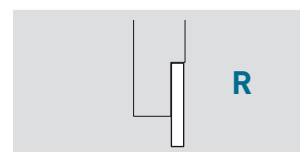
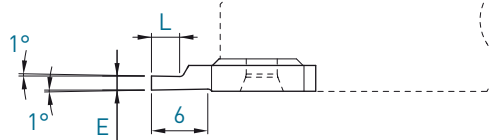
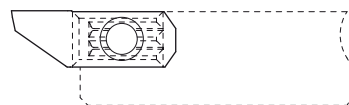
1XX-XX-B



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

Fonçage-tournage

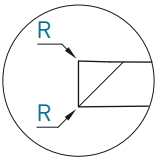
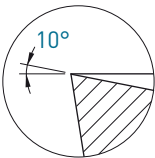
Einstechen und drehen
Grooving and turning

144**R**

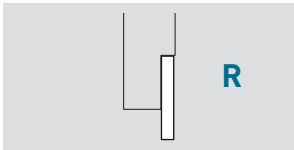
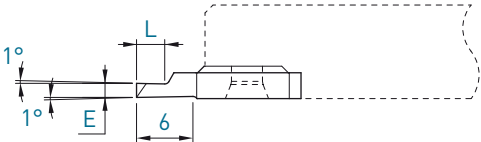
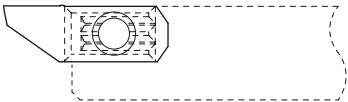
E	L	R	Art. N°	KTA	KST	KN [µk10-20]
0.5	1.5	0	144-0.5	●	●	●
0.6	1.8	0	144-0.6	●	●	●
0.8	2	0	144-0.8	●	●	●
1.0	2.5	0	144-1.0	●	●	●
1.0	3	0.08	144-1.0-R08	●	●	●
1.5	3	0	144-1.5	●	●	●
1.5	3	0.08	144-1.5-R08	●	●	●

1XX-XX-B

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



R

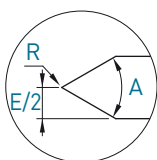
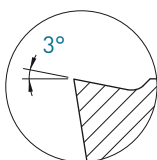
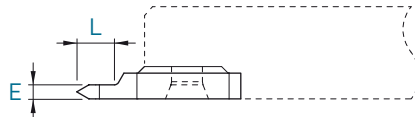
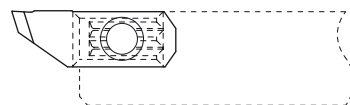
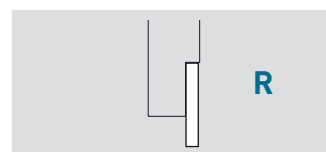


E	L	R	Art. N°	P M N S P M N S P M N S KN (uk10-20)		
				KTA	KST	KN
0.8	2	0	144X10-0.8	●	●	●
1.0	2.5	0	144X10-1.0	●	●	●
1.0	2.5	0.08	144X10-1.0-R08	●	●	●
1.5	3	0	144X10-1.5	●	●	●
1.5	3	0.08	144X10-1.5-R08	●	●	●

1XX-XX-B



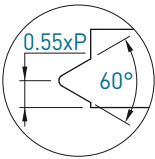
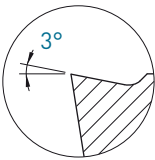
Sur demande pour serrage type B, voir page 3.04
Auf Anfrage für B-Spannsystem, siehe Seite 3.04
On request for B clamping system, see page 3.04

FiletageGewinde drehen
Threading**146X3****R**Profil partiel
Teilprofil
Partial profile

A	E	L	R	Pas mm Steigung mm Pitch mm P	Art. N°	P M N S P M N S P M N S		
						KTA	KST	KN [µk10-20]
60°	1.5	4	0	-	146X3-60-1.5	•	•	•
60°	1.5	4	0.03	0.25-0.35	146X3-60-1.5-R03	•	•	•
60°	2.0	6	0.06	0.40-0.70	146X3-60-2.0-R06	•	•	•
60°	2.0	6	0.12	0.8-1.25	146X3-60-2.0-R12	•	•	•

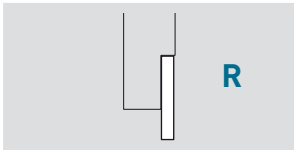
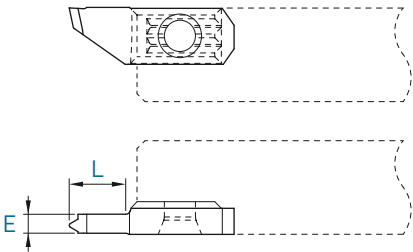
A	E	L	R	Pas TPI Steigung TPI Pitch TPI P	Art. N°	P M N S P M N S P M N S		
						KTA	KST	KN [µk10-20]
55°	1.5	4	0	-	146X3-55-1.5	•	•	•
55°	1.5	4	0.06	32-48	146X3-55-1.5-R06	•	•	•
55°	2.0	6	0.12	18-26	146X3-55-2.0-R12	•	•	•

1XX-XX-BSur demande pour serrage type B, voir page 3.04
Auf Anfrage für B-Spannsystem, siehe Seite 3.04
On request for B clamping system, see page 3.04



Profil complet métrique
Metrisches Vollprofil
Metric full profile

R



Pas Steigung Pitch P	E	L	Art. N°	P	P	P
				M	M	M
				N	N	N
				S	S	S
				KTA	KST	KN (uk10-20)
0.25	1.0	3	146X3-M-0.25	●	●	●
0.30	1.0	3	146X3-M-0.30	●	●	●
0.35	1.0	3	146X3-M-0.35	●	●	●
0.40	1.0	3	146X3-M-0.40	●	●	●
0.45	1.0	3	146X3-M-0.45	●	●	●
0.50	1.0	3	146X3-M-0.50	●	●	●
0.60	1.0	3	146X3-M-0.60	●	●	●
0.70	1.0	3	146X3-M-0.70	●	●	●
0.75	1.0	3	146X3-M-0.75	●	●	●
0.80	1.5	4.5	146X3-M-0.80	●	●	●
1.00	1.5	4.5	146X3-M-1.00	●	●	●
1.25	1.5	4.5	146X3-M-1.25	●	●	●
1.50	2.0	6	146X3-M-1.50	●	●	●
1.75	2.0	6	146X3-M-1.75	●	●	●

1XX-XX-B

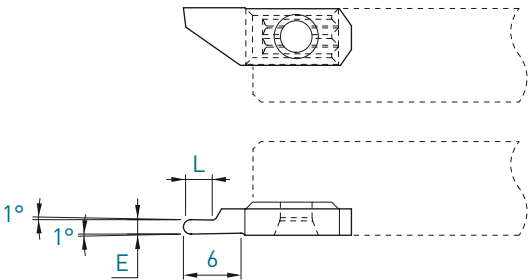


Sur demande pour serrage type B, voir page 3.04
Auf Anfrage für B-Spannsystem, siehe Seite 3.04
On request for B clamping system, see page 3.04

Plaquettes à rayon
Radius Wendeplatten
Radius inserts

147

R



R

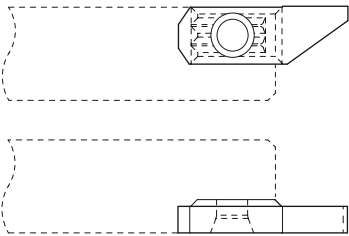
R	L	Art. N°	P M N S P M N S P M N S		
			KTA	KST	KN [µk10-20]
0.25	1.5	147-R0.25	•	•	•
0.40	2	147-R0.4	•	•	•
0.50	2.5	147-R0.5	•	•	•
0.60	2.5	147-R0.6	•	•	•
0.75	3	147-R0.75	•	•	•
0.80	3	147-R0.8	•	•	•
1.0	4	147-R1.0	•	•	•

1XX-XX-B

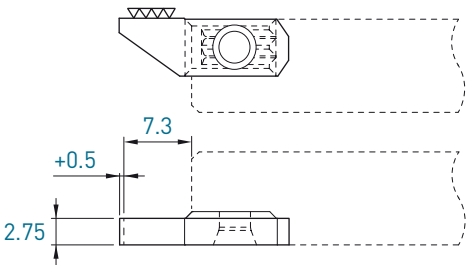


Sur demande pour serrage type B, voir page 3.04
Auf Anfrage für B-Spannsystem, siehe Seite 3.04
On request for B clamping system, see page 3.04

L

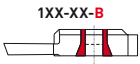


R



Face de coupe polie
Polierte Schnittfläche
Polished cutting face

							
Art. N°	P	P	P	Art. N°	P	P	P
	M	M	M		M	M	M
	N	N	N		N	N	N
	S	S	S		S	S	S
	KN [µk10-20]				KN [µk10-20]		
131-EP	•	•	•	141-EP	•	•	•

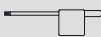


1XX-XX-B
Sur demande pour serrage type B, voir page 3.04
Auf Anfrage für B-Spannsystem, siehe Seite 3.04
On request for B clamping system, see page 3.04

Pièces de rechange et accessoires

Ersatzteile und Zubehör

Spare parts and accessories

Porte-outils Halter Holders		Serrage standard (A) Standard Spannsystem (A) Standard clamping system (A) 	Options 	Serrage type B Spannsystem Typ B Clamping system type B 	Options 		
130	130-8	V-M3x7-T8	C-T8	V-M2.5X7.8-T8	C-T8		
	130-10						
	130-12						
	130RC-8	V-M3x5.5-T8		-			
	130RC-10						
	130RC-12						
140	140-8	V-M3x7-T8	C-T8	V-M2.5X7.8-T8	C-T8		
	140-10						
	140-12						
	140-8-H10-DUO						
	140-10-H10-DUO						
	140-12-H10-DUO						

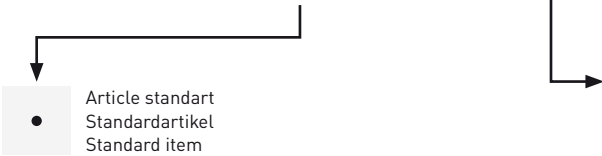
SYMBOL

Légende des symboles

Symbollegende

Symbol Legend

E	L	Art. N°	TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)
1.0	5	731RU-1.0	•	•				
1.2	5	731RU-1.2	•	•				
1.5	7	731RU-1.5	•	•	•	•	•	•
2.0	7	731RU-2.0	•	•				



Acier
Stahl
Steel



Inox
Rostfreistahl
Stainless steel



Alliages d'aluminium et non ferreux
Aluminium- und Nichtisenlegierungen
Aluminium and non-ferrous alloys



Titane et superalliages
Titan und Superlegierungen
Titanium and superalloys



Acier trempé
Gehärteter Stahl
Hardened steel



Fonte
Gusseisen
Cast iron



Matière exotique
Exotisches material
Exotic material



Carbure
Hartmetall
Carbide




K20

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



