PRO-Line



APPLITEC
CUTTING TOOLS

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Kodifizierung
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Infos und Vorteile
Infos and advantages >5.08

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Sorten
Grades >5.09

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SERIES 630 / 640

Tournage et gorge

Drehen und Einstechen

Turning and grooving

Porte-outils
Halter
Holders  630 / 640 >5.12

Tournage avant
Vorwärts drehen
Front turning 632 / 642  >5.14

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PRO-Line

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SERIES 650 / 660

Tronçonnage

Abstechen

Parting off

Porte-outils
Halter
Holders  650 / 660 >5.37

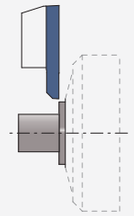
Tronçonnage
Abstechen
Parting off 651 / 661  >5.40

Tronçonnage - coupe déportée
Abstechen - versetztes Schneiden
Parting off - cut off line 651R  >5.45

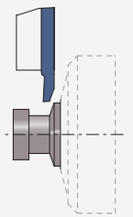
Plaquettes ébauches
WSP-Rohlinge
Blank inserts 651-EP / 661-EP  >5.50

Pièces de rechange et accessoires
Ersatzteile und Zubehöre
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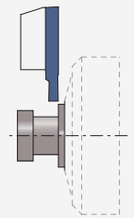
642



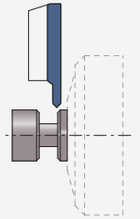
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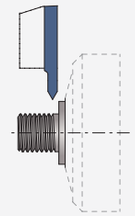
644



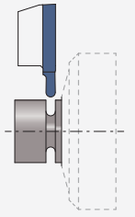
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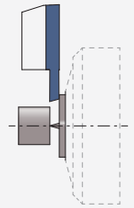
646



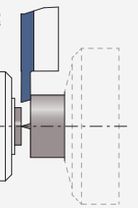
647



661



651R



6	4	4	X	–	2.0	–	R15	–	TiAlN

Dimension
Abmessung
Dimension

Rayon
Radius
Radius

Nuance
Sorte
Grade

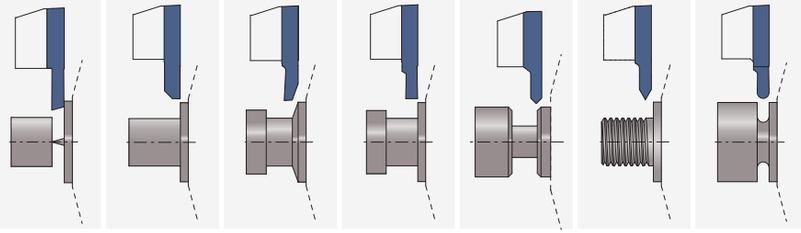
Géométrie de coupe
Schneidgeometrie
Cutting geometry

brise-copeaux
Spanbrecher
chip breaker

particularités
Sondereigenschaften
special features

Géométrie d'usinage
Bearbeitungsgeometrie
Machining geometry

1 2 3 4 5 6 7



Gamme de produit
Produktserie
Product series

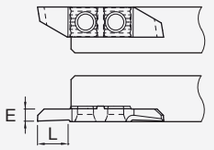
définit la compatibilité des plaquettes avec le porte-outil
bestimmt die WSP und Halter Kompatibilität
shows the inserts and holder compatibility

L = 3, 5 (chiffre impair / ungerade Zahl / uneven number)

R = 4, 6 (chiffre pair / gerade Zahl / even number)

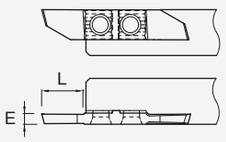
SERIES	L	R
Tournage et gorge Drehen und Einstechen Turning and grooving	630	640

E max = 3 mm
L max = 8 mm



SERIES	L	R
Tronçonnage Abstechen Parting off	650	660

E max = 2.5 mm
L max = 11 mm



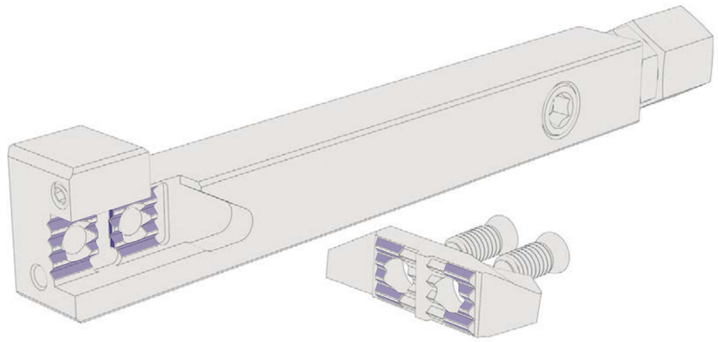
Applitec série 600
Applitec 600 Serie
Applitec 600 series

Système de serrage à denture avec 2 vis de fixation
Spannsystem mit Verzahnung und 2 Schrauben
Teeth clamping system with 2 screws

Zurück zum Kapitelanfang

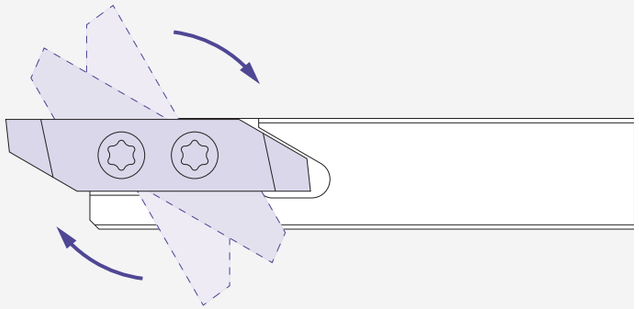
Rigid!

Système de serrage à denture Applitec avec repositionnement sur la nervure centrale.
Applitec-Verzahnungsspannsystem mit Neupositionierung auf der Zentralrippe.
Applitec toothed clamping system with repositioning on the central rib.



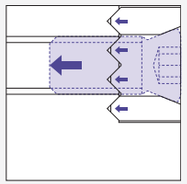
Ultra precision

Grande précision lors du retournement de la plaquette
Hohe Präzision beim Wenden der Platte
High precision when flipping the insert



Applitec toothing

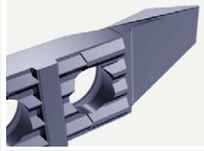
Système de serrage en fond de denture
Klemmvorrichtung an der Prothesenbasis
Clamping system at the denture base



Zurück zum Kapitelanfang

µK20

TiAlN



K20

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

TF F M E

P ★★★★★
M ★★★★★
N ★★★★☆
S ★★★★☆

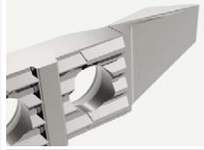
- excellente nuance universelle
- 1er choix pour l'usinage des aciers, aciers inoxydables et alliages de titane
- très bonne résistance à la température

- beste Universalsorte
- für die Bearbeitung von Stahl, rostfreiem Stahl und Titanlegierungen bestens geeignet
- sehr gute Warmfestigkeit

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

µK20

N



K20

Non revêtu
Unbeschichtet
Uncoated

P ★☆☆☆☆
M ★☆☆☆☆
N ★★★☆☆
S ★★★☆☆

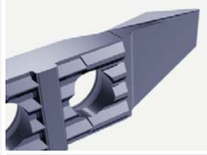
- nuance micro-grain tenace
- supporte les coupes interrompues et autres conditions d'usinage défavorables

- zähe Feinkornsorte
- für unterbrochene Schnitte und andere ungünstige Bearbeitungsbedingungen

- tough micro-grain grade
- suitable for interrupted cut and other unfavourable machining conditions

µK10

HTA



K10

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

TF F M E

P ★★★★★
M ★★★★★
N ★★★★☆
S ★★★★☆

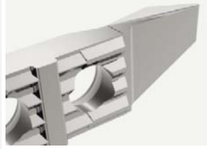
- nuance très résistante à l'usure
- pour l'usinage en finition dans des conditions favorables des aciers, aciers inoxydables et alliages de titane

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

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

µK10

HN



K10

Non revêtu
Unbeschichtet
Uncoated

P ★☆☆☆☆
M ★☆☆☆☆
N ★★★☆☆
S ★★★☆☆

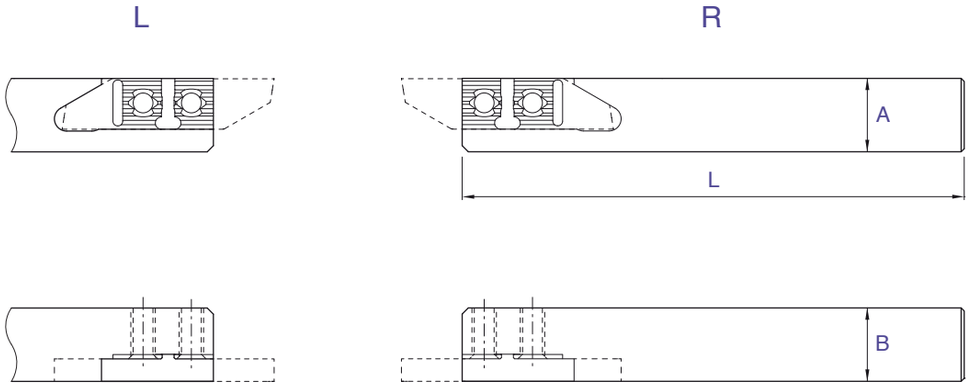
- nuance micro-grain très résistante à l'usure
- recommandé pour l'usinage du titane faiblement allié
- déconseillé en cas de coupe interrompue et autres conditions d'usinage défavorables

- verschleissfeste Feinkornsorte
- für die Bearbeitung von niedrig legiertem Titan empfehlenswert
- für unterbrochene Schnitte und andere ungünstige Bearbeitungsbedingungen nicht geeignet

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

Matière Werkstoff Material		Tournage Drehen Turning 630/640			Tronçonnage Abstechen Parting off 650/660		
		VC (m/min)	Prof. depasse Schnitttiefe Depth of cut (mm)	Avance Vorschub Feed (mm/U)	VC (m/min)	Largeur decoupe Abstechbreite Cuttingwidth (mm)	Avance Vorschub Feed (mm/U)
Acier de décolletage Automatenstahl Free-cutting steel	P	120 - 200	0.05 - 1.0 1.0 - 4.0	0.01 - 0.15 0.05 - 0.25	80 - 150	0.50 - 1.50 1.50 - 2.50	0.01 - 0.08 0.03 - 0.15
Acier Stahl Steel <600 N/mm²	P	80 - 160	0.05 - 1.0 1.0 - 4.0	0.01 - 0.15 0.05 - 0.25	70 - 120	0.50 - 1.50 1.50 - 2.50	0.01 - 0.06 0.03 - 0.12
Acier Stahl Steel <800 N/mm²	P	60 - 120	0.05 - 1.0 1.0 - 4.0	0.01 - 0.10 0.05 - 0.20	60 - 100	0.50 - 1.50 1.50 - 2.50	0.01 - 0.05 0.03 - 0.10
Acier Stahl Steel >800 N/mm²	P	50 - 100	0.05 - 1.0 1.0 - 3.0	0.01 - 0.08 0.05 - 0.15	40 - 80	0.50 - 1.50 1.50 - 2.50	0.01 - 0.04 0.03 - 0.08
Acier inoxydable Rostfreistahl Stainless steel	M	60 - 120	0.05 - 1.0 1.0 - 3.0	0.01 - 0.08 0.05 - 0.15	60 - 100	0.50 - 1.50 1.50 - 2.50	0.01 - 0.04 0.03 - 0.08
Aluminium Si <12%	N	200 - 1000	0.05 - 1.0 1.0 - 4.0	0.01 - 0.20 0.05 - 0.40	180 - 400	0.50 - 1.50 1.50 - 2.50	0.01 - 0.10 0.03 - 0.20
Aluminium Si >12%	N	180 - 800	0.05 - 1.0 1.0 - 4.0	0.01 - 0.20 0.05 - 0.40	150 - 300	0.50 - 1.50 1.50 - 2.50	0.01 - 0.10 0.03 - 0.20
Cuivre, laiton, bronze Kupfer, Messing, Bronze Copper, brass, bronze	N	100 - 500	0.05 - 1.0 1.0 - 4.0	0.01 - 0.20 0.05 - 0.35	100 - 300	0.50 - 1.50 1.50 - 2 .50	0.01 - 0.10 0.03 - 0.20
Titane Titan Titanium	S	30 - 70	0.05 - 1.0 1.0 - 4.0	0.01 - 0.08 0.05 - 0.15	30 - 50	0.50 - 1.50 1.50 - 2.50	0.01 - 0.03 0.03 - 0.06

Zurück zum Kapitelanfang

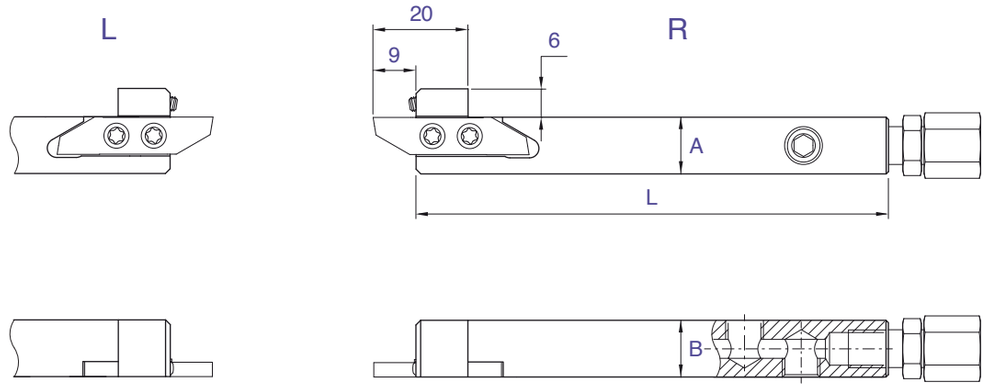




A x B	L	L Art. N°	R Art. N°
8 x 8	115	630-8	640-8
10 x 10	115	630-10	640-10
10 x 10	50	630-10-50	640-10-50
12 x 12	130	630-12	640-12
12 x 12	90	630-12-90	640-12-90
12.7 x 12.7	130	630-12.7	640-12.7
16 x 16	130	630-16	640-16
16 x 16	75	630-16-75	640-16-75
20 x 20	120	630-20	640-20

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

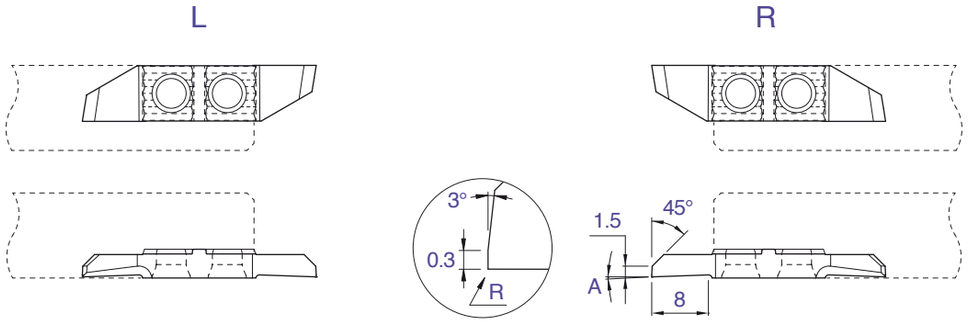
Zurück zum Kapitelanfang





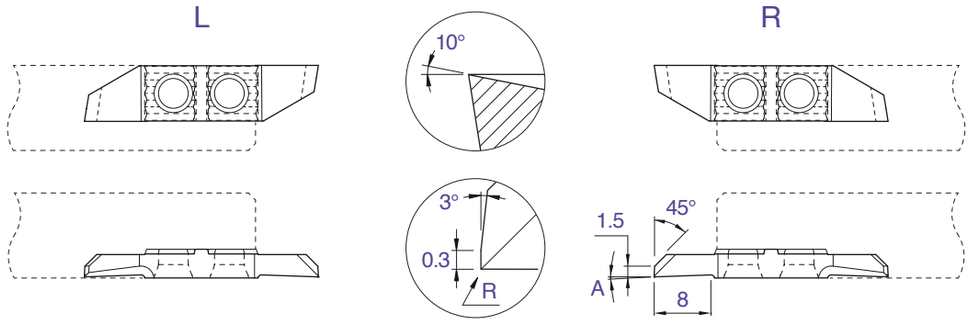
A x B	L	L Art. N°	R Art. N°
10 x 12	100	630-1012-JET	640-1012-JET
12 x 12	100	630-12-JET	640-12-JET
12.7 x 12.7	100	630-12.7-JET	640-12.7-JET
16 x 16	100	630-16-JET	640-16-JET
20 x 20	100	630-20-JET	640-20-JET

Chaque support est livré avec vis, raccord droit et buse d'arrosage Ø1.5 mm. Les clés sont à commander séparément.
Jeder Halter wird mit Spannschraube(n), gerader Kühlmittelanschluss und Kühlmitteldüse Ø1.5 mm geliefert. Die Schlüssel sind separat zu bestellen.
Screw(s), straight connector and coolant nozzle Ø1.5 mm are included with each tool holder. The keys must be ordered separately.





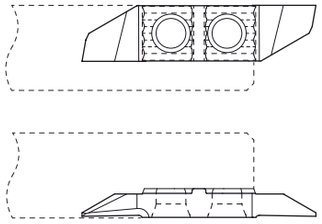
A	R	L Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)	R Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)
0°	0	632	●	●			642	●	●		
0°	0.08	–					642-R08	●	●		
0°	0.15	–					642-R15	●	●	●	
2°	0	632-2°	●	●			642-2°	●	●	●	
2°	0.08	–					642-2°-R08	●	●		
2°	0.15	–					642-2°-R15	●	●		



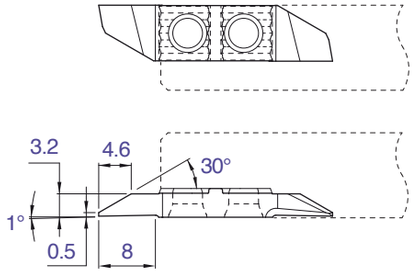


A	R	L Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)	R Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)
0°	0	632X10	●	●			642X10	●	●		
0°	0.08	–					642X10-R08	●	●		
0°	0.15	–					642X10-R15	●	●		
2°	0	632X10-2°	●	●			642X10-2°	●	●		
2°	0.08	–					642X10-2°-R08	●	●		●
2°	0.15	–					642X10-2°-R15	●	●	●	●

L



R

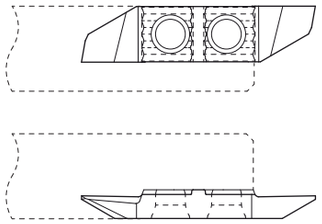




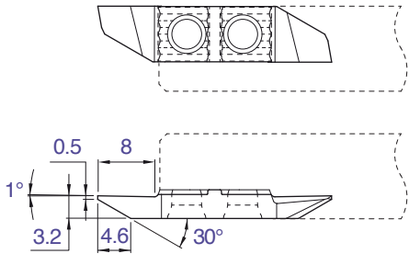
Tournage avant
Vorwärts drehen
Front turning

L					R				
Art. N°	P M N S	TiAlN	N (µk20)	HTA	HN (µk10)	Art. N°	P M N S	TiAlN	N (µk20)	HTA	HN (µk10)
632S05		●	●			642S05		●	●	●	●

L



R

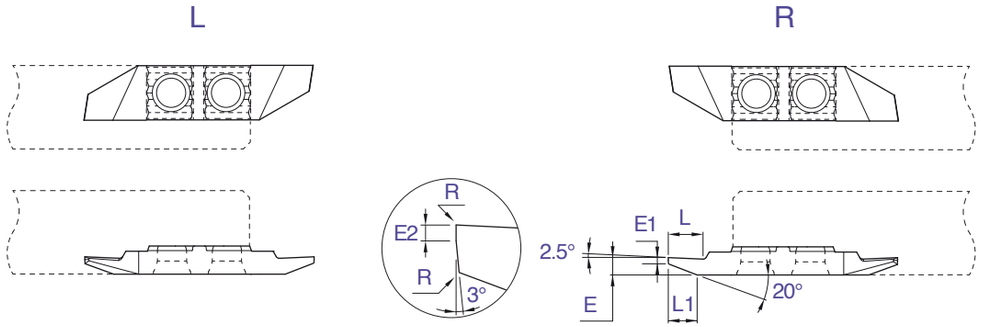




Tournage arrière
Rückwärts drehen
Back turning

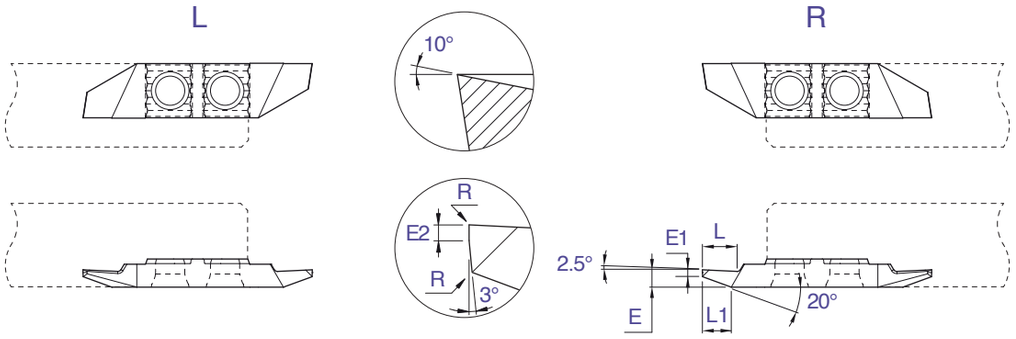
L					R				
Art. N°	P M N S	TiAlN	N (µk20)	HTA	HN (µk10)	Art. N°	P M N S	TiAlN	N (µk20)	HTA	HN (µk10)
633S05		●	●			643S05		●	●		●

Tournage arrière
Rückwärts drehen
Back turning



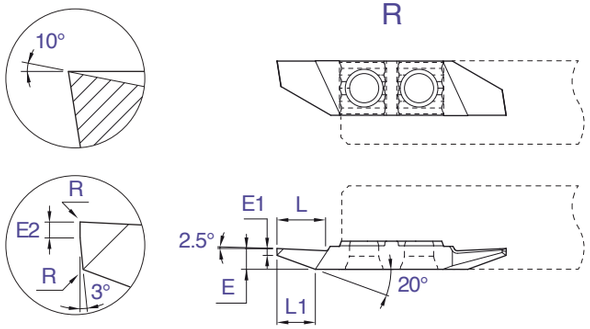


L							R						
E1	E2	L	L1	E	R	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)
0.5	0.25	3	2.8	1.5	0	633-0.5	●	●			643-0.5	●	●		●
0.5	0.25	3	2.8	1.5	0.08	-					643-0.5-R08	●	●		
0.8	0.40	4.5	3.3	2.0	0	-					643-0.8	●	●		
0.8	0.40	4.5	3.3	2.0	0.08	-					643-0.8-R08	●	●		
1.0	0.40	5	4.2	2.5	0	-					643-1.0	●	●		
1.0	0.40	5	4.2	2.5	0.08	-					643-1.0-R08	●	●		
1.5	0.50	6	4.2	3.0	0	-					643-1.5	●	●		
1.5	0.50	6	4.2	3.0	0.08	-					643-1.5-R08	●	●		

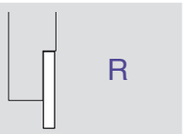




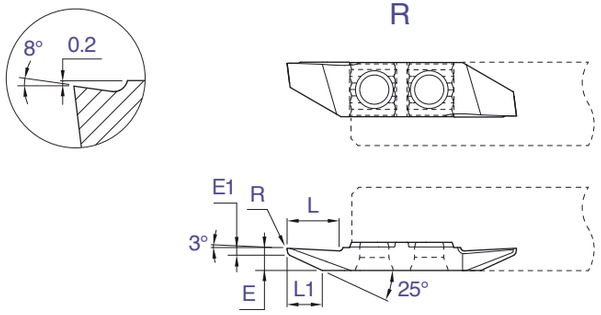
L							R						
E1	E2	L	L1	E	R	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)
0.5	0.25	3	2.8	1.5	0	633X10-0.5	●	●			643X10-0.5	●	●	●	●
0.5	0.25	3	2.8	1.5	0.08	-					643X10-0.5-R08	●	●		
0.8	0.40	4.5	3.3	2.0	0	-					643X10-0.8	●	●		
0.8	0.40	4.5	3.3	2.0	0.08	-					643X10-0.8-R08	●	●		
1.0	0.40	5	4.2	2.5	0	-					643X10-1.0	●	●		
1.0	0.40	5	4.2	2.5	0.08	-					643X10-1.0-R08	●	●		
1.5	0.50	6	4.2	3.0	0	-					643X10-1.5	●	●		
1.5	0.50	6	4.2	3.0	0.08	-					643X10-1.5-R08	●	●		



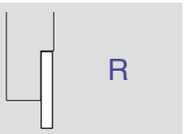




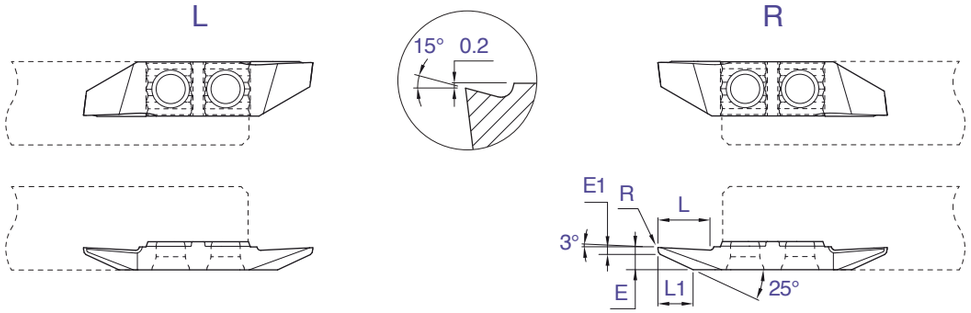
E1	E2	L	L1	E	R	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)
1.0	0.4	7	5.5	3.0	0	643X10S-1.0	●	●		
1.0	0.4	7	5.5	3.0	0.08	643X10S-1.0-R08	●	●		





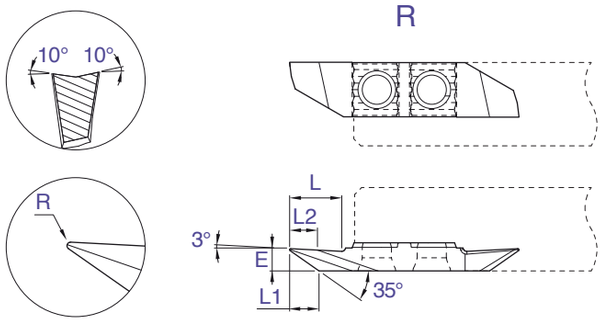


E1	L	L1	E	R	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)
1.0	7.5	5.0	3.2	0	643VX8	●	●		
1.0	7.5	5.0	3.2	0.08	643VX8-R08	●	●		



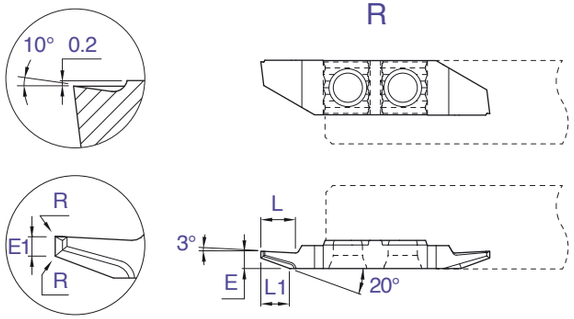


E1	L	L1	E	R	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)
					L					R				
0.6	7.5	5.2	3.2	0	633VX15	●	●			643VX15	●	●		●
0.6	7.5	5.2	3.2	0.08	-					643VX15-R08	●	●		



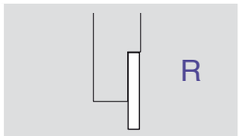


L	L1	L2	E	R	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)
					R				
7.5	4.2	4.0	3.2	0.15	643VUX10-R15	●	●	●	●
7.5	3.8	3.8	3.2	0.35	643VUX10-R35	●	●		

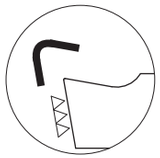




Pour un meilleur contrôle des copeaux
Für eine bessere Spankontrolle
For a better chip control

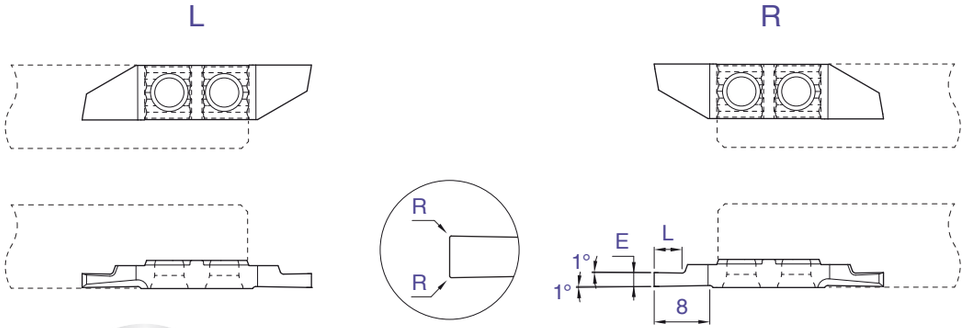


E1	L	L1	E	R	Art. N°	P M N S TiAlN	N N (µk20)
1.0	5	4	2.5	0.01	643ZX10-1.0	●	
1.0	5	4	2.5	0.08	643ZX10-1.0-R08	●	



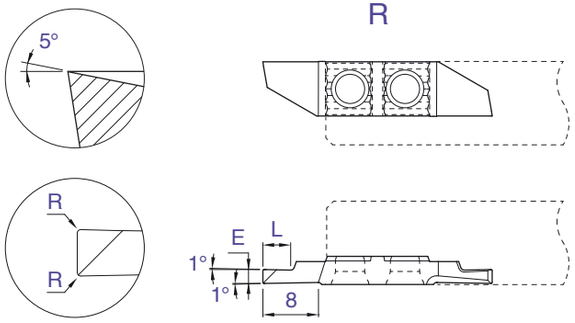
Arête de coupe honée
Gehonte Schneidkante
Honed edge

f min: 0.02mm/U





E	L	R	L Art. N°	L P M N S TiAlN	L N N (µk20)	L P M N S HTA	L N N HN (µk10)	R Art. N°	R P M N S TiAlN	R N N (µk20)	R P M N S HTA	R N N HN (µk10)
0.5	1.5	0	634-0.5	●	●			644-0.5	●	●		
0.6	1.8	0	-					644-0.6	●	●		
0.75	2	0	-					644-0.75	●	●		●
0.8	2	0	634-0.8	●	●			644-0.8	●	●		
0.9	2.5	0	-					644-0.9	●	●		
0.95	3	0	-					644-0.95	●	●		
1.0	2.5	0	634-1.0	●	●			644-1.0	●	●		●
1.0	2.5	0.08	-					644-1.0-R08	●	●	●	●
1.2	3	0	634-1.2	●	●			644-1.2	●	●		
1.2	3	0.08	-					644-1.2-R08	●	●		●
1.5	3	0	634-1.5	●	●			644-1.5	●	●	●	●
1.5	3	0.08	-					644-1.5-R08	●	●	●	●
1.5	3	0.15	-					644-1.5-R15	●	●		
1.8	4	0	-					644-1.8	●	●	●	
2.0	4	0	634-2.0	●	●			644-2.0	●	●		
2.0	4	0.08	-					644-2.0-R08	●	●		●
2.0	4	0.15	-					644-2.0-R15	●	●		●
2.5	6	0	634-2.5	●	●			644-2.5	●	●		
2.5	6	0.08	-					644-2.5-R08	●	●		
2.5	6	0.15	-					644-2.5-R15	●	●		
3	6	0	634-3.0	●	●			644-3.0	●	●	●	
3	6	0.08	-					644-3.0-R08	●	●	●	●
3	6	0.15	-					644-3.0-R15	●	●		







Arête de coupe vive
Scharfe Schneidkante
Sharp edge

E	L	R	Art. N°	R TiAlN	R N (µk20)	R HTA	R HN (µk10)
1.5	3	0.08	644X5-1.5-R08	●	●		
2	4	0.08	644X5-2.0-R08	●	●		
2	4	0.15	644X5-2.0-R15	●	●		
2.5	6	0.08	644X5-2.5-R08	●	●		
2.5	6	0.15	644X5-2.5-R15	●	●		
3	6	0.08	644X5-3.0-R08	●	●		
3	6	0.15	644X5-3.0-R15	●	●		

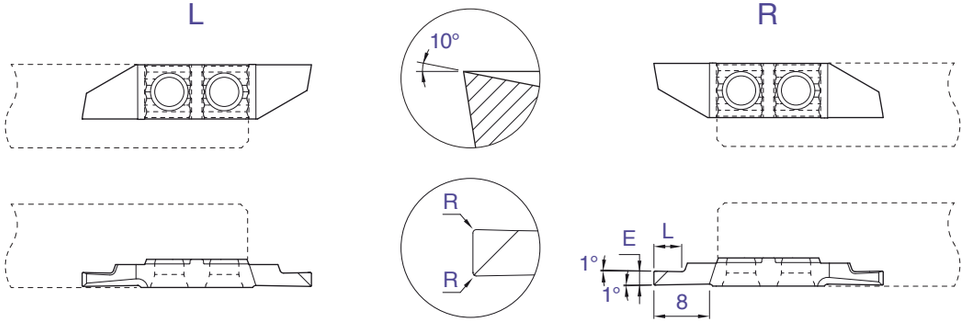


Arête de coupe honée
Gehonte Schneidkante
Honed edge

f min: 0.02mm/U

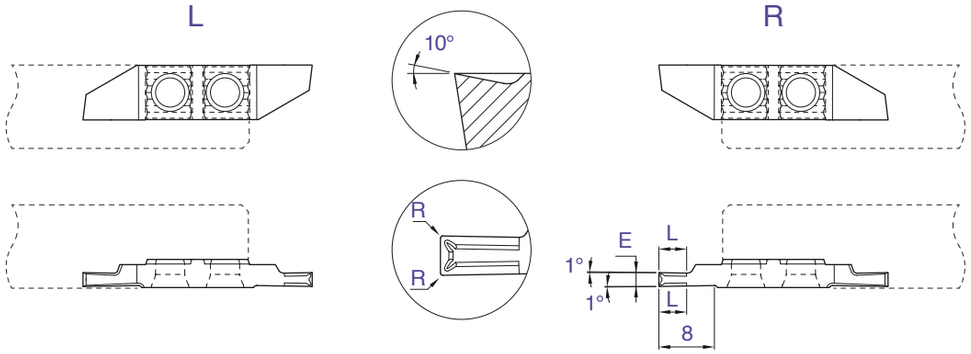
E	L	R	Art. N°	R TiAlN	R N (µk20)	R HTA	R HN (µk10)
1.5	3	0.08	644X5-1.5-R08-EP	●	●		
2	4	0.08	644X5-2.0-R08-EP	●	●		
2	4	0.15	644X5-2.0-R15-EP	●	●		
2.5	6	0.08	644X5-2.5-R08-EP	●	●		
2.5	6	0.15	644X5-2.5-R15-EP	●	●		
3	6	0.08	644X5-3.0-R08-EP	●	●		
3	6	0.15	644X5-3.0-R15-EP	●	●		

Zurück zum Kapitelanfang





E	L	R	L Art. N°	L TiAlN	L N (µk20)	L HTA	L HN (µk10)	R Art. N°	R TiAlN	R N (µk20)	R HTA	R HN (µk10)
0.8	2	0	634X10-0.8	●	●			644X10-0.8	●	●	●	●
1.0	2.5	0	634X10-1.0	●	●			644X10-1.0	●	●		
1.0	2.5	0.08	634X10-1.0-R08	●	●			644X10-1.0-R08	●	●		
1.2	3	0	-					644X10-1.2	●	●		●
1.2	3	0.08	-					644X10-1.2-R08	●	●		
1.5	3	0	634X10-1.5	●	●			644X10-1.5	●	●		●
1.5	3	0.08	634X10-1.5-R08	●	●			644X10-1.5-R08	●	●		●
1.5	3	0.15	634X10-1.5-R15	●	●			644X10-1.5-R15	●	●		
1.8	4	0	-					644X10-1.8	●	●		
2	4	0	634X10-2.0	●	●			644X10-2.0	●	●		
2	4	0.08	634X10-2.0-R08	●	●			644X10-2.0-R08	●	●		
2	4	0.15	634X10-2.0-R15	●	●			644X10-2.0-R15	●	●		
2.5	6	0	634X10-2.5	●	●			644X10-2.5	●	●		
2.5	6	0.08	634X10-2.5-R08	●	●			644X10-2.5-R08	●	●		
2.5	6	0.15	634X10-2.5-R15	●	●			644X10-2.5-R15	●	●		
3	6	0	634X10-3.0	●	●			644X10-3.0	●	●		
3	6	0.08	634X10-3.0-R08	●	●			644X10-3.0-R08	●	●		
3	6	0.15	634X10-3.0-R15	●	●			644X10-3.0-R15	●	●		





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

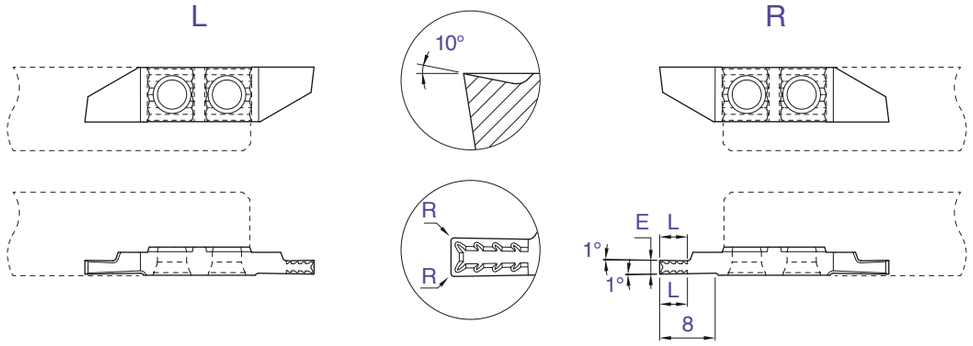
E	L	R	L Art. N°	TiAlN	N (µK20)	R Art. N°	TiAlN	N (µK20)
1.0	2.5	0.01	634ZXB10-1.0	●		644ZXB10-1.0	●	
1.5	4	0.01	634ZXB10-1.5	●		644ZXB10-1.5	●	
1.5	4	0.08	634ZXB10-1.5-R08	●		644ZXB10-1.5-R08	●	
2.0	4	0.01	634ZXB10-2.0	●		644ZXB10-2.0	●	
2.0	4	0.08	634ZXB10-2.0-R08	●		644ZXB10-2.0-R08	●	
2.0	4	0.15	634ZXB10-2.0-R15	●		644ZXB10-2.0-R15	●	
2.5	5	0.08	634ZXB10-2.5-R08	●		644ZXB10-2.5-R08	●	
2.5	5	0.15	634ZXB10-2.5-R15	●		644ZXB10-2.5-R15	●	
3.0	6	0.08	634ZXB10-3.0-R08	●		644ZXB10-3.0-R08	●	
3.0	6	0.15	634ZXB10-3.0-R15	●		644ZXB10-3.0-R15	●	
3.0	6	0.35	634ZXB10-3.0-R35	●		644ZXB10-3.0-R35	●	



Arête de coupe honée
Gehonte Schneidkante
Honed edge

f min: 0.02mm/U

Zurück zum Kapitelanfang





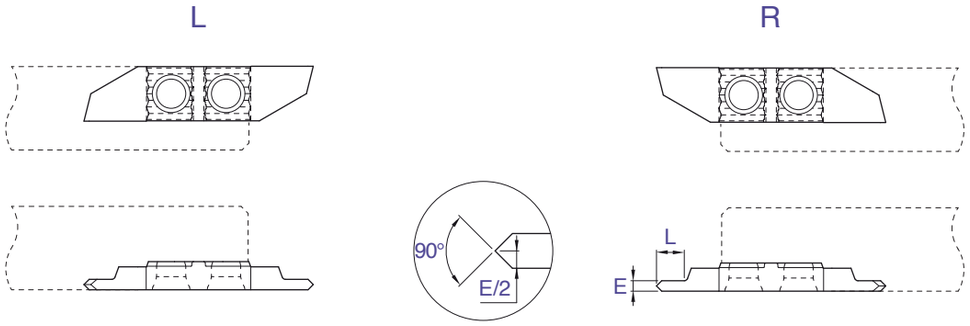
Pour un meilleur contrôle des copeaux
Für eine bessere Spankontrolle
For a better chip control

E	L	R	L Art. N°	TiAlN	N (µK20)	R Art. N°	TiAlN	N (µK20)
1.0	2.5	0.01	634ZXT10-1.0	●		644ZXT10-1.0	●	
1.5	4	0.01	634ZXT10-1.5	●		644ZXT10-1.5	●	
1.5	4	0.08	634ZXT10-1.5-R08	●		644ZXT10-1.5-R08	●	
2.0	4	0.01	634ZXT10-2.0	●		644ZXT10-2.0	●	
2.0	4	0.08	634ZXT10-2.0-R08	●		644ZXT10-2.0-R08	●	
2.0	4	0.15	634ZXT10-2.0-R15	●		644ZXT10-2.0-R15	●	
2.5	5	0.08	634ZXT10-2.5-R08	●		644ZXT10-2.5-R08	●	
2.5	5	0.15	634ZXT10-2.5-R15	●		644ZXT10-2.5-R15	●	
3.0	6	0.08	634ZXT10-3.0-R08	●		644ZXT10-3.0-R08	●	
3.0	6	0.15	634ZXT10-3.0-R15	●		644ZXT10-3.0-R15	●	
3.0	6	0.35	-			644ZXT10-3.0-R35	●	



Arête de coupe honée
Gehonte Schneidkante
Honed edge

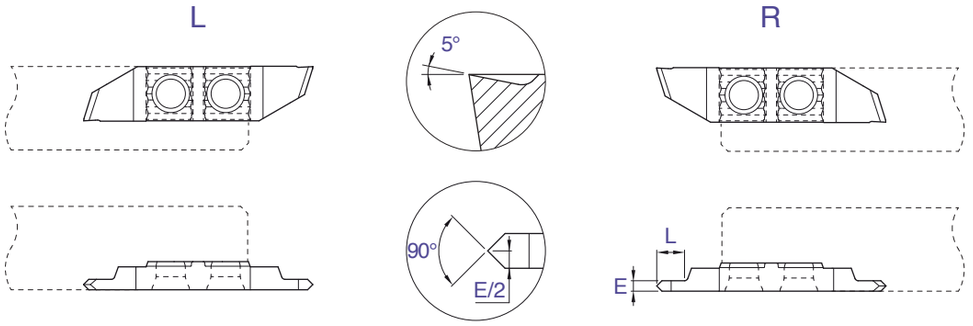
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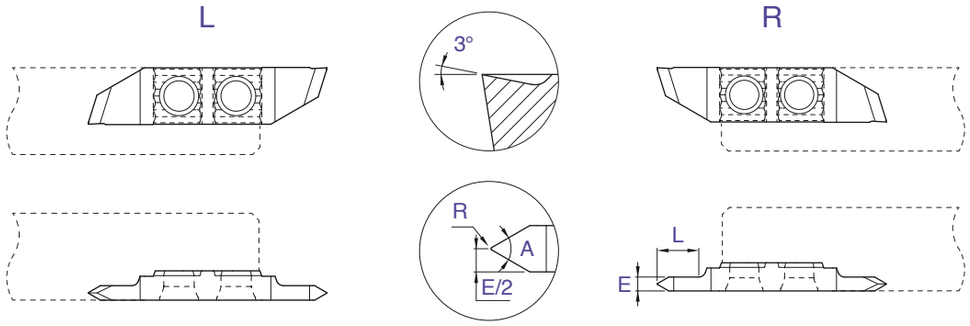
E	L	L Art. N°	TiAlN	N (µk20)	R Art. N°	TiAlN	N (µk20)
1.5	4	635-90-1.5	●	●	645-90-1.5	●	●

Zurück zum Kapitelanfang





E	L	L Art. N°	TiAlN	N (µk20)	R Art. N°	TiAlN	N (µk20)
1.5	4	635X5-90-1.5	●	●	645X5-90-1.5	●	●

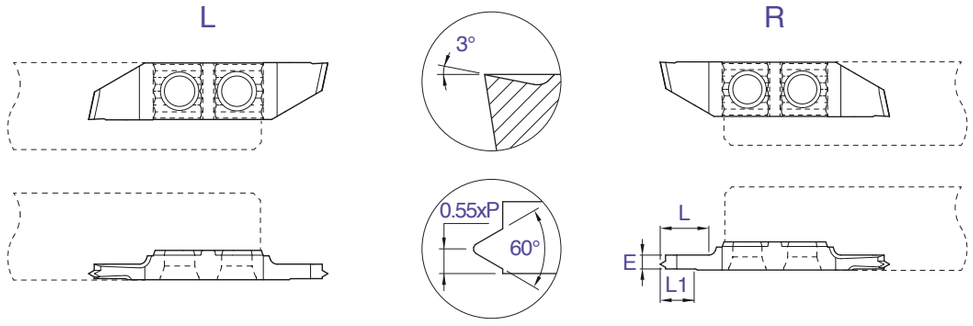




Profil partiel
Teilprofil
Partial profile

				L		R	
A	E	L	R	Art. N°	TiAlN	Art. N°	TiAlN
55°	1.5	4	0	636X3-55-1.5	●	646X3-55-1.5	●
55°	2.0	6	0.03	636X3-55-2.0-R03	●	646X3-55-2.0-R03	●
60°	1.5	4	0	636X3-60-1.5	●	646X3-60-1.5	●
60°	2.0	6	0.03	636X3-60-2.0-R03	●	646X3-60-2.0-R03	●
60°	2.0	6	0.06	636X3-60-2.0-R06	●	646X3-60-2.0-R06	●
60°	3.0	8	0.06	636X3-60-3.0-R06	●	646X3-60-3.0-R06	●
60°	3.0	8	0.12	636X3-60-3.0-R12	●	646X3-60-3.0-R12	●

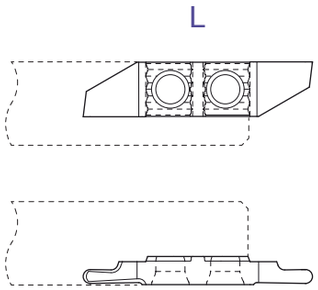
Zurück zum Kapitelanfang

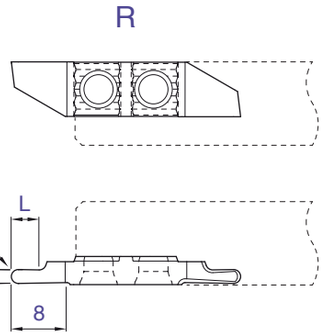




Profil complet métrique
Metrisches Vollprofil
Metric full profile

				L		R	
E	L	L1	Pas Steigung Pitch P	Art. N°	TiAlN	Art. N°	TiAlN
1.0	3	3	0.25	636X3-M-0.25	●	646X3-M-0.25	●
1.0	3	3	0.30	636X3-M-0.30	●	646X3-M-0.30	●
1.0	3	3	0.35	636X3-M-0.35	●	646X3-M-0.35	●
1.0	3	3	0.40	636X3-M-0.40	●	646X3-M-0.40	●
1.0	3	3	0.45	636X3-M-0.45	●	646X3-M-0.45	●
1.0	3	3	0.50	636X3-M-0.50	●	646X3-M-0.50	●
1.5	5	5	0.60	636X3-M-0.60	●	646X3-M-0.60	●
1.5	5	5	0.70	636X3-M-0.70	●	646X3-M-0.70	●
1.5	5	5	0.75	636X3-M-0.75	●	646X3-M-0.75	●
1.5	5	5	0.80	636X3-M-0.80	●	646X3-M-0.80	●
2.0	7	5	1.00	636X3-M-1.00	●	646X3-M-1.00	●
2.0	7	5	1.25	636X3-M-1.25	●	646X3-M-1.25	●
2.0	7	5	1.50	636X3-M-1.50	●	646X3-M-1.50	●

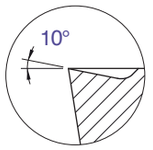


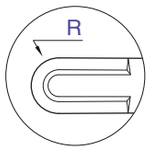


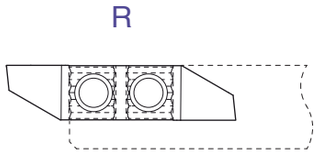


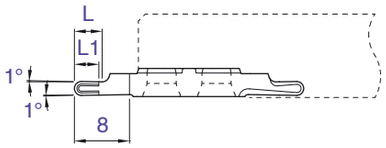
R	L	L Art. N°	L TiAlN	L N (µk20)	L HTA	L HN (µk10)	R Art. N°	R TiAlN	R N (µk20)	R HTA	R HN (µk10)
0.25	1.5	-					647-R0.25	●	●		
0.4	2	-					647-R0.4	●	●		
0.5	2.5	637-R0.5	●	●			647-R0.5	●	●	●	●
0.6	2.5	-					647-R0.6	●	●		
0.75	3	-					647-R0.75	●	●		
0.8	3	-					647-R0.8	●	●		
1.0	4	637-R1.0	●	●			647-R1.0	●	●		
1.5	6	-					647-R1.5	●	●		

Zurück zum Kapitelanfang











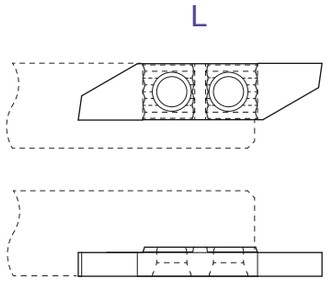
Pour un meilleur contrôle des copeaux
Für eine bessere Spankontrolle
For a better chip control

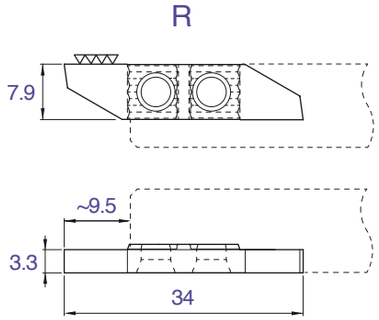
R	L	L1	R Art. N°	R TiAlN	R N (µk20)
1.0	4	3.5	647ZX10-R1.0	●	
1.5	6	4	647ZX10-R1.5	●	

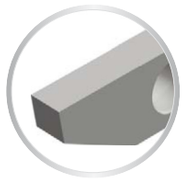


Arête de coupe honée
Gehonte Schneidkante
Honed edge

f min: 0.02mm/U

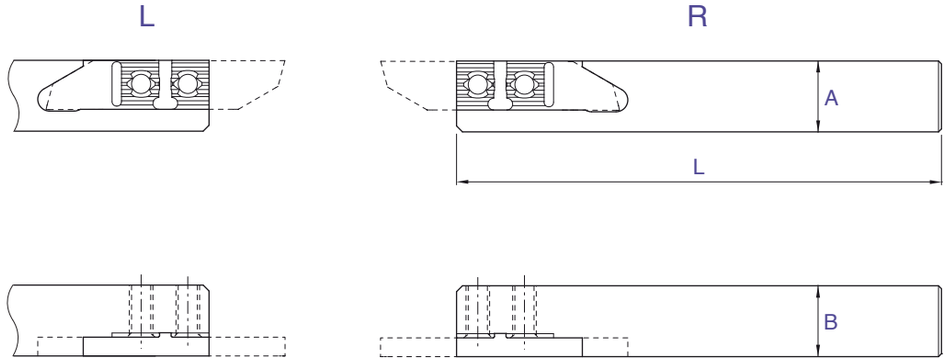






Face de coupe polie
Polierte Schneidfläche
Polished cutting face

L					R				
Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)
631-EP	●	●	●	●	641-EP	●	●	●	●



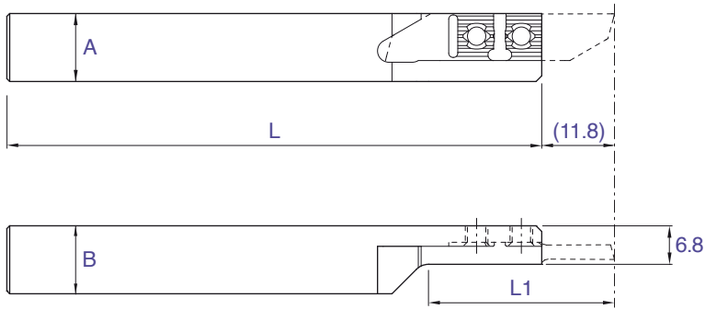


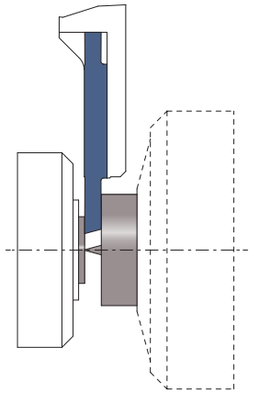
A x B	L	L Art. N°	R Art. N°
8 x 8	115	650-8	660-8
10 x 10	115	650-10	660-10
10 x 10	50	650-10-50	660-10-50
12 x 12	130	650-12	660-12
12 x 12	90	650-12-90	660-12-90
12.7 x 12.7	130	650-12.7	660-12.7
16 x 16	130	650-16	660-16
16 x 16	75	650-16-75	660-16-75
20 x 20	120	650-20	660-20

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

Utiliser des plaquettes type 651R
WSP Typ 651R verwenden
Use inserts type 651R

Voir dès page 5.39
Siehe ab Seite 5.39
See from page 5.39





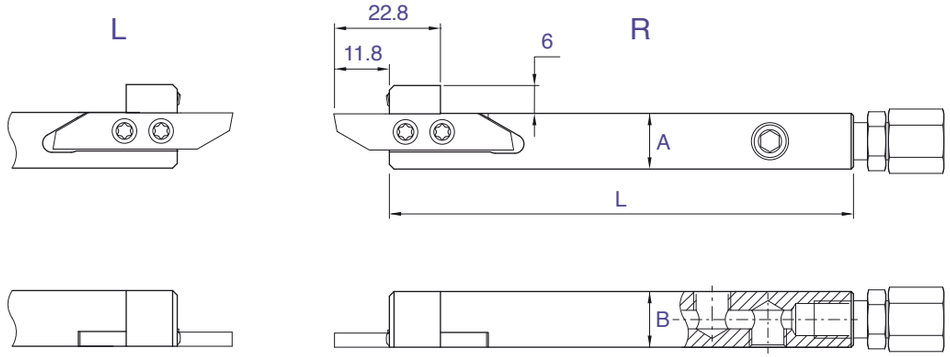
L (R)

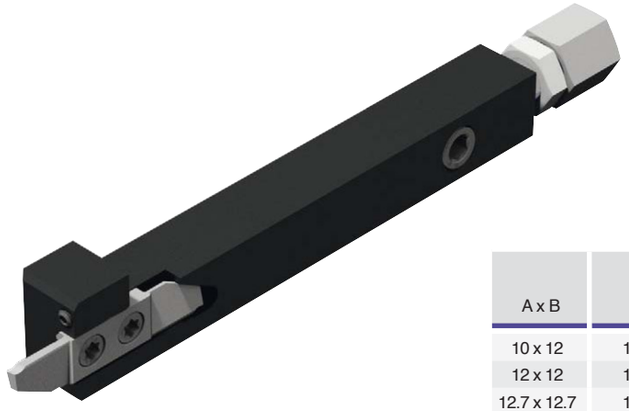
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

A x B	L	L1	Art. N°
10 x 10	115	32	650RC-10
12 x 12	130	32	650RC-12
16 x 16	130	42	650RC-16

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

Zurück zum Kapitelanfang

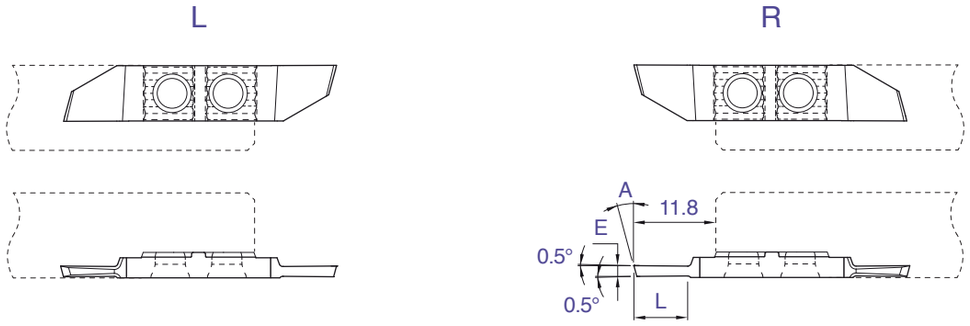




L R

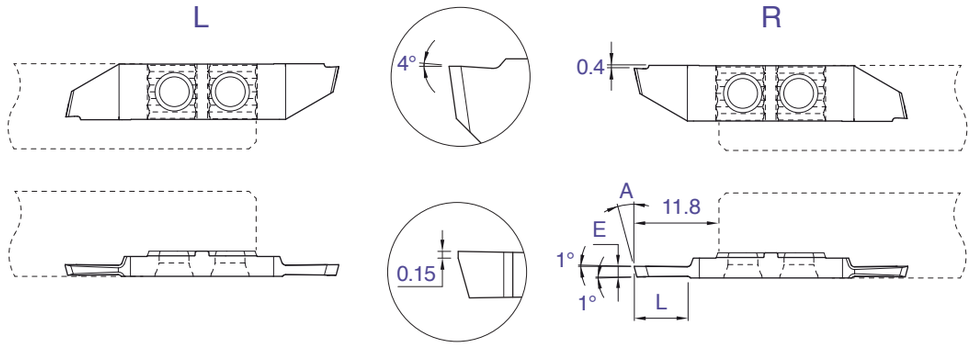
A x B	L	Art. N°	Art. N°
10 x 12	100	650-1012-JET	660-1012-JET
12 x 12	100	650-12-JET	660-12-JET
12.7 x 12.7	100	650-12.7-JET	660-12.7-JET
16 x 16	100	650-16-JET	660-16-JET
20 x 20	100	650-20-JET	660-20-JET

Chaque support est livré avec vis, raccord droit et buse d'arrosage Ø1.5 mm. Les clés sont à commander séparément.
Jeder Halter wird mit Spannschraube(n), gerader Kühlmittelanschluss und Kühlmitteldüse Ø1.5 mm geliefert. Die Schlüssel sind separat zu bestellen.
Screw(s), straight connector and coolant nozzle Ø1.5 mm are included with each tool holder. The keys must be ordered separately.



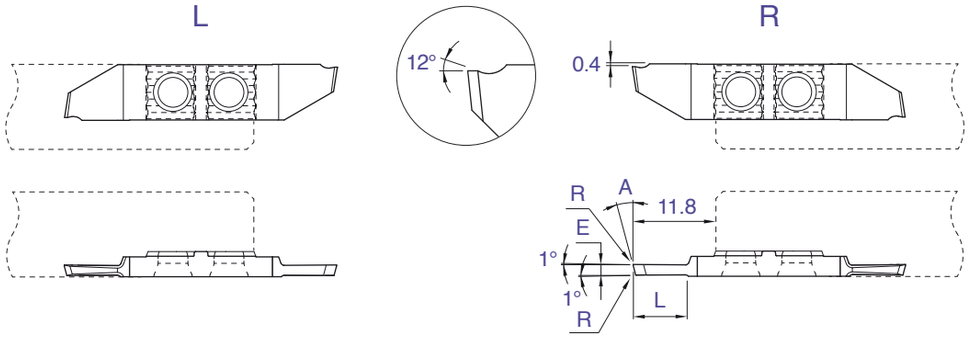


E	A	L	L Art. N°	L TiAlN	L N (µk20)	L HTA	L HN (µk10)	R Art. N°	R TiAlN	R N (µk20)	R HTA	R HN (µk10)
0.8	20°	5	651-0.8-20°	●	●			661-0.8-20°	●	●	●	●
1.0	15°	5	–					661-1.0-15°	●	●		
1.0	20°	5	651-1.0-20°	●	●			661-1.0-20°	●	●		
1.2	15°	5	–					661-1.2-15°	●	●		
1.2	20°	5	651-1.2-20°	●	●			661-1.2-20°	●	●		
1.5	15°	7.5	651-1.5-15°	●	●			661-1.5-15°	●	●		
1.5	20°	7.5	–					661-1.5-20°	●	●		
1.8	15°	9	651-1.8-15°	●	●			661-1.8-15°	●	●		
2.0	15°	11	651-2.0-15°	●	●	●		661-2.0-15°	●	●	●	●
2.5	15°	11	651-2.5-15°	●	●			661-2.5-15°	●	●		



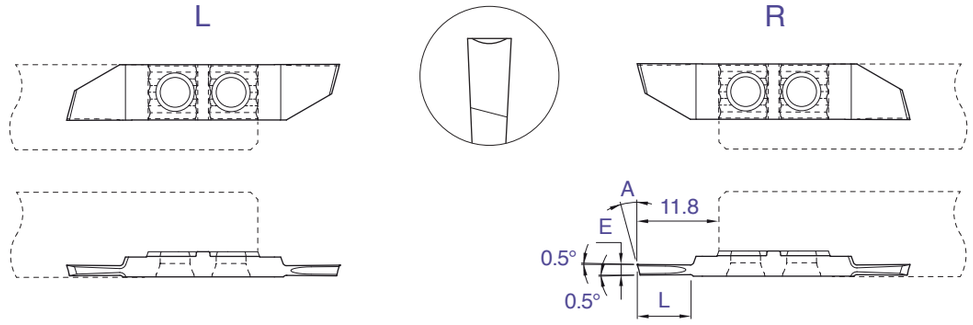


E	A	L	L Art. N°	L TiAlN	L N (µk20)	L HTA	L HN (µk10)	R Art. N°	R TiAlN	R N (µk20)	R HTA	R HN (µk10)
1.5	15°	7.5	651XF-1.5	●	●			661XF-1.5	●	●		
2.0	15°	11	651XF-2.0	●	●			661XF-2.0	●	●		



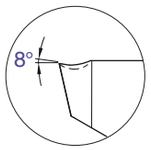


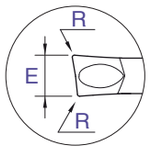
E	A	L	R	L Art. N°	L TiAlN	L N (µk20)	L HTA	L HN (µk10)	R Art. N°	R TiAlN	R N (µk20)	R HTA	R HN (µk10)
1.0	15°	5	0.03	651X12-1.0	●	●			661X12-1.0	●	●		
1.5	15°	7.5	0.03	651X12-1.5	●	●			661X12-1.5	●	●		
2.0	15°	11	0.03	651X12-2.0	●	●			661X12-2.0	●	●		

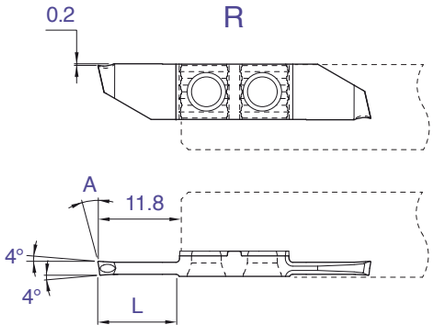


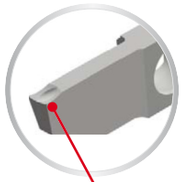


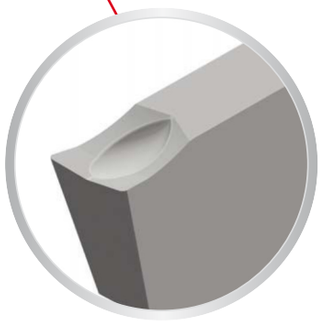
E	A	L	L Art. N°	L TiAlN	L N (µk20)	R Art. N°	R TiAlN	R N (µk20)
1.5	15°	7.5	651U-1.5	●	●	661U-1.5	●	●
2.0	15°	11	651U-2.0	●	●	661U-2.0	●	●











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

R

E	A	L	R	Art. N°	TiAlN	N (µk20)
2.0	8°	11	0.10	661ZU8-2.0-8°-R10	●	



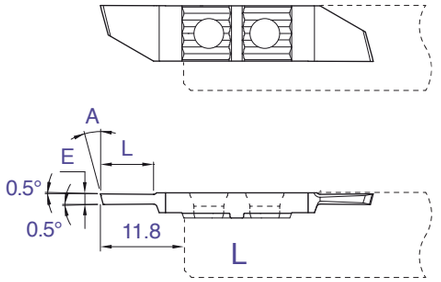
Arête de coupe honée
Gehonte Schneidkante
Honed edge

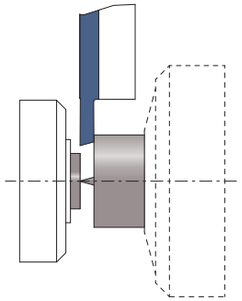
f min: 0.02mm/U

Zurück zum Kapitelanfang



Cut R

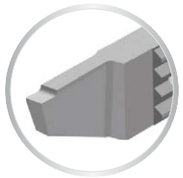


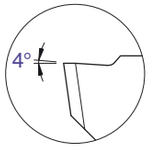


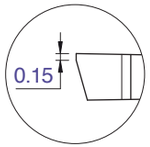
L (R)

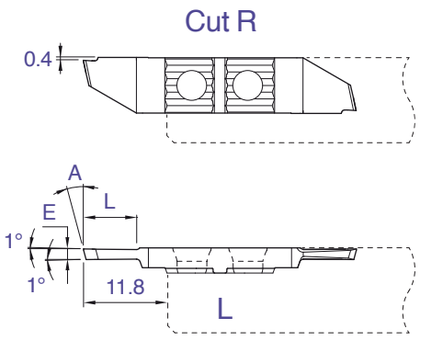
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

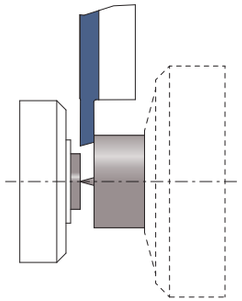
E	A	L	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)
1.0	15°	5	651R-1.0-15°	●	●		
1.2	15°	5	651R-1.2-15°	●	●		
1.5	15°	7.5	651R-1.5-15°	●	●		
2.0	15°	11	651R-2.0-15°	●	●		
2.5	15°	11	651R-2.5-15°	●	●		









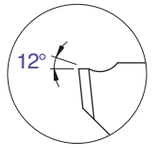


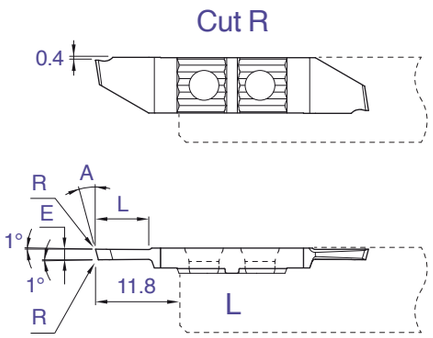
L (R)

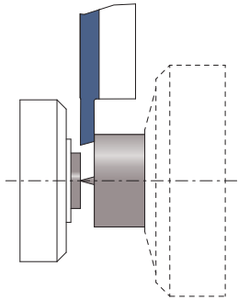
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

E	A	L	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)
1.5	15°	7.5	651RXF-1.5	●	●		
2.0	15°	11	651RXF-2.0	●	●		







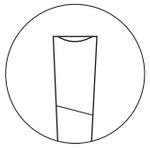


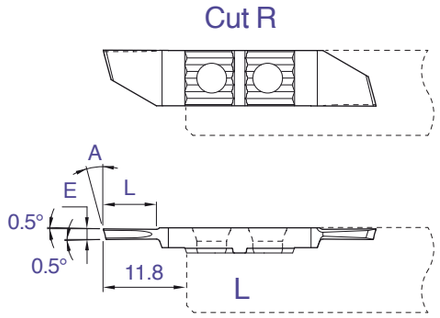
L (R)

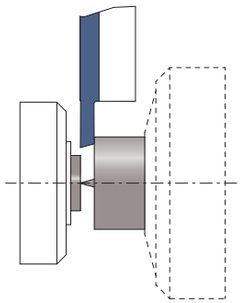
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

E	A	L	R	Art. N°	TiAlN	N (µk20)	HTA	HN (µk10)
1.5	15°	7.5	0.03	651RX12-1.5	●	●		
2.0	15°	11	0.03	651RX12-2.0	●	●		







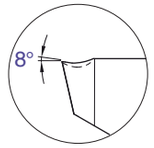


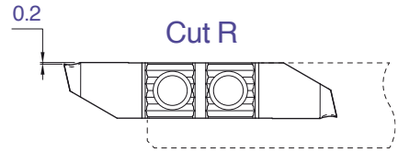
L (R)

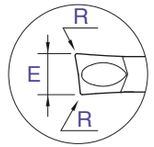
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

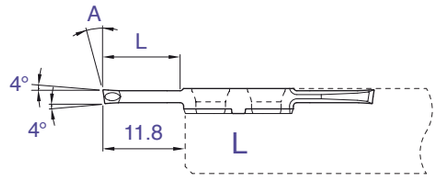
E	A	L	Art. N°	P M N S TiAlN	N (μk20)
1.5	15°	7.5	651RU-1.5	●	●
2.0	15°	11	651RU-2.0	●	●

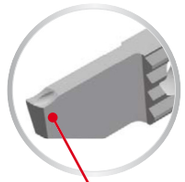
Zurück zum Kapitelanfang



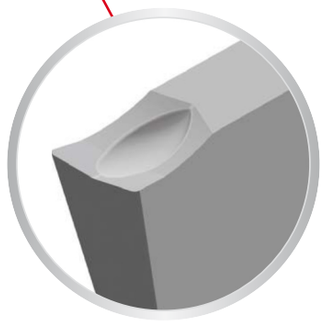








Pour un meilleur contrôle des copeaux
Für eine bessere Spankontrolle
For a better chip control



L (R)

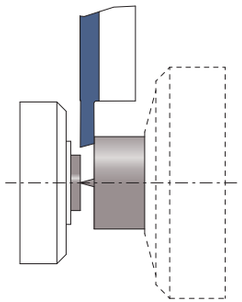
Coupe à droite déportée
Versetztes Rechtsschneiden
Right cut off line

E	A	L	R	Art. N°	P M N S TiAlN	N (μk20)
2.0	8°	11	0.10	651RZU8-2.0-8°-R10	●	

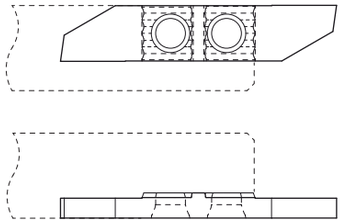


Arête de coupe honée
Gehonte Schneidkante
Honed edge

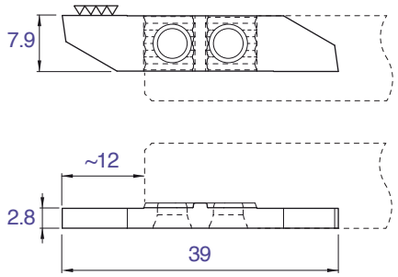
f min: 0.02mm/U



L



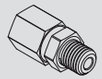
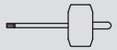
R





Face de coupe polie
Polierte Schneidfläche
Polished cutting face

L					R				
Art. N°	TiAlN	N (μk20)	HTA	HN (μk10)	Art. N°	TiAlN	N (μk20)	HTA	HN (μk10)
651-EP	●	●	●	●	661-EP	●	●	●	●

Porte-outils Halter Holders					Options		
							
						Art. N°	Recommandation de serrage Empfehlung zum Spannen Clamping recommendation
630 640	V-M4X9-T15	-	-	-	C-T15	SET-NM3.0-TX15	3 Nm
630-JET 640-JET		J-M8X1-D6	JB-M8X1	JJ-M3X6-D1.5			
650 660		-	-	-			
650-RC	V-M4X6.5-T15	-	-	-			
650-JET 660-JET	V-M4X9-T15	J-M8X1-D6	JB-M8X1	JJ-M3X6-D1.5			