

PRECITOOOL

SWISS MADE

Fabricant d'outillage carbure depuis 1969
Vollhartmetallwerkzeug - Hersteller seit 1969
Manufacturer carbide cutting tools since 1969

FRAISES CIRCULAIRES EN METAL DUR
VOLLHARTMETALL-KREISSÄGEBLÄTTER
SOLID CARBIDE SLITTING SAWS

OUTILS DE DECOLLETAGE
WERKZEUGE FÜR DREHAUTOMATEN
TOOLS FOR AUTOMATIC LATHES

PRECITOOOL SA
56, rue de Soleure
CH-2740 MOUTIER
SWITZERLAND

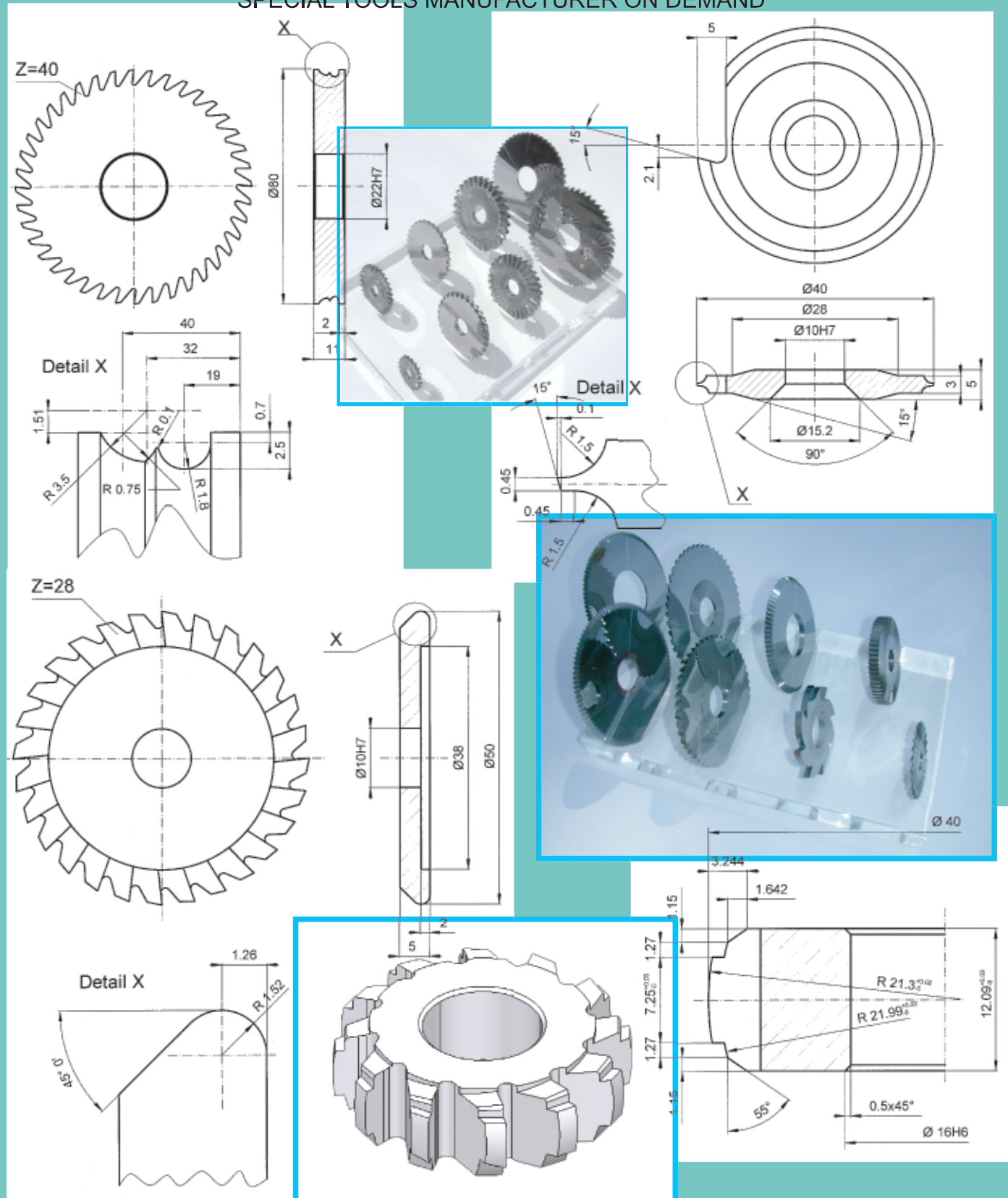
E-mail: info@precitool.ch
Adresse: www.precitool.ch

++ 41 32 494 64 74
Fax ++ 41 32 494 64 77

FABRICANT D'OUTILS SPECIAUX SUR DEMANDE

HERSTELLER VON SPEZIAL WERKZEUG AUF ANFRAGE

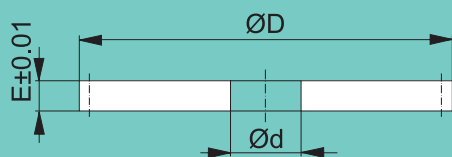
SPECIAL TOOLS MANUFACTURER ON DEMAND



FRAISES CIRCULAIRES EN MÉTAL DUR
VOLLHARTMETALL-KREISSÄGEBLÄTTER
SOLID CARBIDE SLITTING SAWS

DIN 1837 Denture fine
 DIN 1837 Feine Verzahnung
 DIN 1837 Fine teeth

Type 101

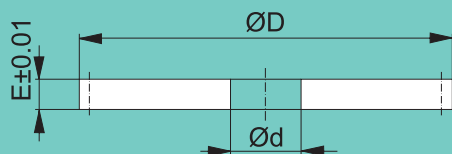


D js15 [mm]	15	20	25	30	40	50	63	80	100	125	150	160	200
d H7 [mm]	5		8		10	13	16	22			32		
E [mm]	Nombre de dents				Anzahl Zähne				Number of teeth				
0.1	64	80	80	100	128	128							
0.15	64	80	80	100	128	128							
0.2	64	80	80	100	128	128	160						
0.25	64	64	80	100	100	128	160						
0.3	64	64	80	80	100	128	128						
0.35	64	64	64	80	100	100	128						
0.4	64	64	64	80	100	100	128	160					
0.5	48	48	64	80	80	100	128	128	160				
0.6	48	48	64	64	80	100	100	128	160	160			
0.7	48	48	48	64	80	80	100	128	128	160			
0.8	40	48	48	64	80	80	100	128	128	160			
0.9	40	40	48	64	64	80	100	100	128	160			
1	40	40	48	64	64	80	100	100	128	160	150	160	
1.1	40	40	48	64	64	80	80	100	128	128			
1.2	40	40	48	48	64	80	80	100	128	128	150	160	
1.3	40	40	40	48	64	64	80	100	100	128			
1.4	40	40	40	48	64	64	80	100	100	128			
1.5	40	40	40	48	64	64	80	100	100	128	150	160	160
1.6	40	40	40	48	64	64	80	100	100	128	150	160	160
1.7	40	40	40	48	48	64	80	80	100	128			
1.8	40	32	40	48	48	64	80	80	100	128			
1.9	40	32	40	48	48	64	80	80	100	128			
2	40	32	40	48	48	64	80	80	100	128	128	128	160
2.5	40	32	40	40	48	64	64	80	100	100	128	128	160
3	40	32	32	40	48	48	64	80	80	100	128	128	128
3.5	24	24	32	40	48	48	64	64	80	100			
4	24	24	32	40	40	48	64	64	80	100	128	100	128
4.5	24	24	32	32	40	48	64	64	80	100			
5	24	24	32	32	40	48	48	64	80	80			
5.5	24	24	24	32	40	40	48	64	64	80			
6	24	24	24	32	40	40	48	64	64	80			

FRAISES CIRCULAIRES EN MÉTAL DUR
VOLLHARTMETALL-KREISSÄGEBLÄTTER
SOLID CARBIDE SLITTING SAWS

DIN 1838 Denture grossière
 DIN 1838 Grobe Verzahnung
 DIN 1838 Large teeth

Type 102

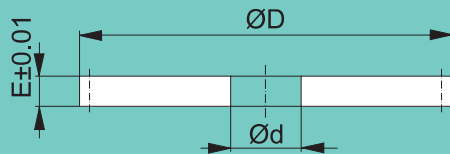


D js15 [mm]	15	20	25	30	40	50	63	80	100	125
d H7 [mm]	5		8		10	13	16	22		
E [mm]	Nombre de dents			Anzahl Zähne			Number of teeth			
0.2	20	20	20	30	40	48				
0.25	20	20	20	30	40	48				
0.3	20	20	20	30	40	48	64	64		
0.35	20	20	20	30	40	48	64	64		
0.4	20	20	20	30	40	48	64	64		
0.5	20	20	20	30	40	48	64	64	80	
0.6	20	20	20	30	40	48	48	64	80	
0.7	20	20	20	30	40	40	48	64	80	
0.8	20	20	20	24	32	40	48	64	64	80
0.9	20	20	20	24	32	40	48	48	64	80
1	20	20	20	24	32	40	48	48	64	80
1.1	20	20	20	24	32	40	40	48	64	64
1.2	20	20	20	24	32	40	40	48	64	64
1.3	20	20	20	24	32	32	40	48	48	64
1.4	20	20	20	24	32	32	40	48	48	64
1.5	20	20	20	24	32	32	40	48	48	64
1.6	20	20	20	24	32	32	40	48	48	64
1.7	20	20	20	24	32	32	40	40	48	64
1.8	20	20	20	24	32	32	40	40	48	64
1.9	20	20	20	24	32	32	40	40	48	64
2	20	20	20	24	32	32	40	40	48	64
2.5	20	20	20	24	32	32	32	40	48	48
3	20	20	20	24	32	24	32	40	40	48
3.5	20	20	20	24	32	24	32	32	40	48
4	20	20	20	24	32	24	32	32	40	48
4.5	20	20	20	24	32	24	32	32	40	40
5	20	20	20	24	32	24	24	32	40	40
5.5	20	20	20	24	32	20	24	32	32	40
6	20	20	20	24	32	20	24	32	32	40

FRAISES CIRCULAIRES EN MÉTAL DUR VOLLHARTMETALL-KREISSÄGEBLÄTTER SOLID CARBIDE SLITTING SAWS

Type **103**

Denture hélicoïdale
Schrägverzahnung
Helical teeth

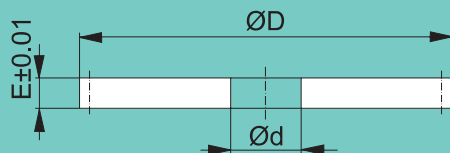


D js15 [mm]	30	40	50	63	80
d H7 [mm]	8	10	13	16	22
E [mm]	Nombre de dents		Anzahl Zähne		Number of teeth
1 - 6	20	24	30	40	50

FRAISES CIRCULAIRES EN MÉTAL DUR VOLLHARTMETALL-KREISSÄGEBLÄTTER SOLID CARBIDE SLITTING SAWS

Type **104**

3 tailles
3-Seitig schneidend
3 cuts



D js15 [mm]	20	25	30	40	50	63	80
d H7 [mm]	5	8		10	13	16	22
E [mm]	Nombre de dents		Anzahl Zähne		Number of teeth		
2	12	20	24	30	40	50	60
3	12	12	24	20	40	50	50
4	12	12	30	20	30	30	50

Autres dimensions sur demande

Andere Abmessungen auf Anfrage

Other dimensions on demand

☎ ++ 41 32 494 64 74

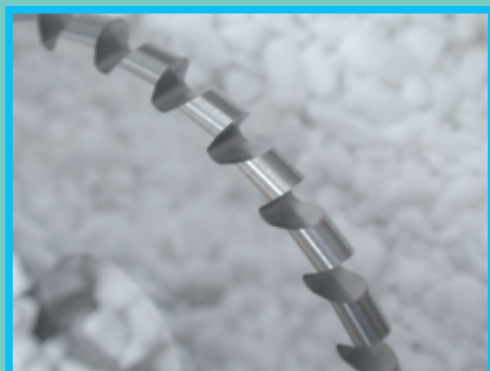
E-mail: info@precitool.ch
Adresse: www.precitool.ch

Fax ++ 41 32 494 64 77

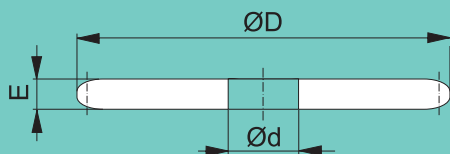
FRAISES CIRCULAIRES EN MÉTAL DUR VOLLHARTMETALL-KREISSÄGEBLÄTTER SOLID CARBIDE SLITTING SAWS

Type **105**

A rayon convexe
Mit Konvex Radius
With convex radius



Denture **B** pour matières à copeaux longs
Verzahnung **B** für langspanende Werkstoffe
Teeth **B** for matériel with long chips



D js15 [mm]	20	25	30	40	50	63
d H7 [mm]	5	8		10	13	16
E [mm]	Nombre de dents		Anzahl Zähne		Number of teeth	
0.8	30	30	30			
1.0	30	30	30	24	30	
1.5	30	30	30			
2.0	30	24	30	24	30	40
2.5	20	24	30			
3.0	20	24	30	24	30	40
4.0				24	30	40
5.0				20	24	30
6.0				20	24	30

Autres dimensions sur demande

Andere Abmessungen auf Anfrage

Other dimensions on demand

☎ ++ 41 32 494 64 74

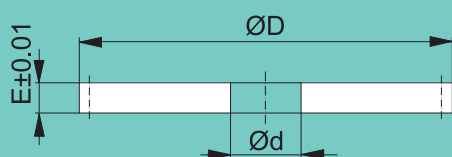
E-mail: info@precitool.ch
Adresse: www.precitool.ch

Fax ++ 41 32 494 64 77

FRAISES CIRCULAIRES EN MÉTAL DUR
VOLLHARTMETALL-KREISSÄGEBLÄTTER
SOLID CARBIDE SLITTING SAWS

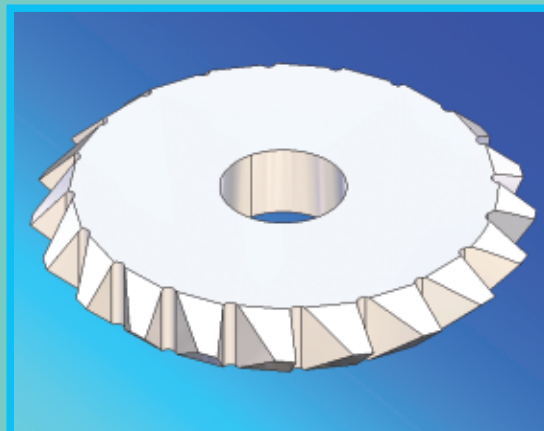
DIN 1837 Denture extra-fine
 DIN 1837 Extrafeine Verzahnung
 DIN 1837 Extrafine teeth

Type 110



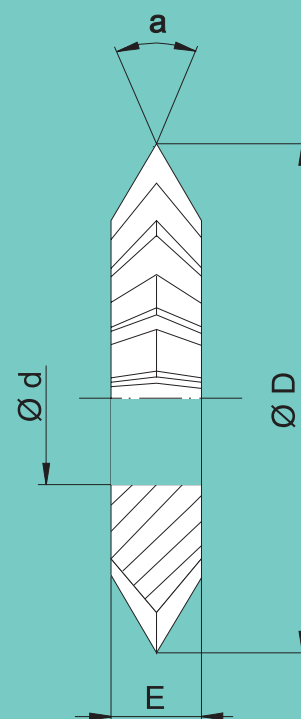
D js15 [mm]	15	20	25	30	35	40	45	50	63	80	
d H7 [mm]	5			8			10	8	10	13	16
E [mm]	Nombre de dents			Anzahl Zähne			Number of teeth				
0.1	80	100	100	120	120						
0.15	80	100	100	120	120						
0.2	80	100	100	120	120	120	160	160	160	160	
0.25	80	100	100	120	120	120	160	160	160	160	
0.3	80	100	100	120	120	120	160	160	160	160	
0.35	80	100	100	120	120	120	160	160	160	160	
0.4	80	100	100	120	120	120	160	160	160	160	
0.5	80	80	80	100	100	100	160	120	120	120	
0.6	80	80	80	100	100	100	160	120	120	120	
0.7	80	80	80	100	100	100	160	120	120	120	
0.8	80	80	80	100	100	100	160	120	120	120	
0.9	80	80	80	100	100	100	160	120	120	120	
1	80	80	80	100	100	100	160	120	120	120	
1.1	80	80	80	100	100	100	160	120	120	120	
1.2	80	80	80	100	100	100	160	120	120	120	
1.4	80	80	80	100	100	100	160	120	120	120	
1.5	80	80	80	100	100	100	160	120	120	120	
2	80	80	80	100	100	100	160	120	120	120	
2.5	SUR DEMANDE										
3	SUR DEMANDE										
3.5	SUR DEMANDE										
4	SUR DEMANDE										
4.5	SUR DEMANDE										
5	SUR DEMANDE										
5.5	SUR DEMANDE										
6	SUR DEMANDE										

FRAISES ISOCELES EN MÉTAL DUR
VOLLHARTMETALL-PRISMENFRÄSER
SOLID CARBIDE BICONAL CUTTERS



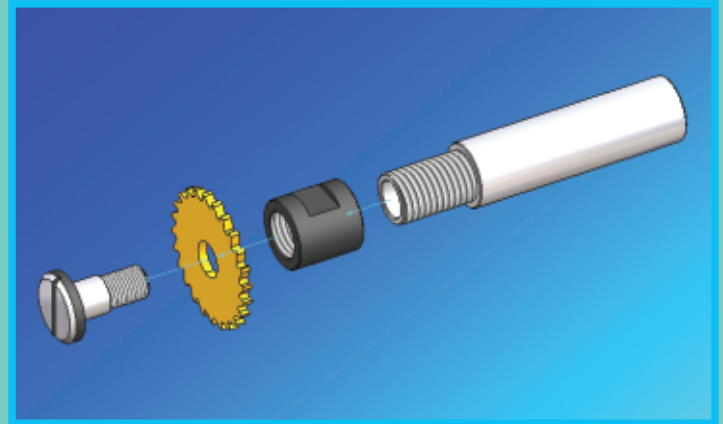
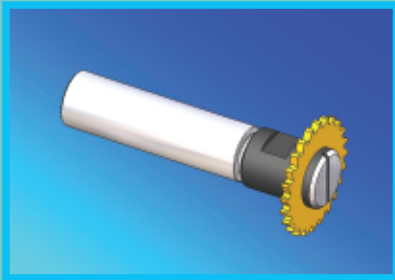
Type 130	Type 131	Type 132
60°	90°	120°

ØD [mm]	E [mm]	Ød2 [mm]	Z
20	1.0	5.0	20
20	1.5	5.0	20
20	2.0	5.0	20
25	1.0	8.0	20
25	1.5	8.0	20
25	2.0	8.0	20
30	2.0	8.0	24
30	2.5	8.0	24
30	3.0	8.0	24
40	2.0	10.0	32
40	3.0	10.0	32
40	4.0	10.0	32
50	3.0	13.0	32
50	4.0	13.0	32
63	4.0	16.0	40
63	5.0	16.0	40



MANDRINS PORTE FRAISE-SCIE
KREISSÄGENFUTTER
COLLETS FOR SLITTING SAWS

Type 111 & 112



POUR FRAISE ALÉSAGE FÜR KREISSÄGEN BOHRUNG FOR SLITTING SAWS BORE		Ø DE QUEUE DU MANDRIN FUTTER SCHAFT DURCHMESSER SHANK DIAMETER FOR COLLET		 111			 112			 J			 J+3mm		
ØA	J	ØD	L	E	ØB; ØC	réf.	Ecrou	Vis	Vis+3	Dimensions en [mm] Masse in [mm] Dimension in [mm]					
5	7	6	50	3	9	*112 5 6	111 01 5	111 02 5	111 03 5						
			60			10									
		7													
8	8	6			15	112 8	111 01 8	111 02 8	111 03 8						
			7												
		10													
		13	65												
10	8	6	60		17	112 10	111 01 10	111 02 10	111 03 10						
			7												
		10													
		13	70												
13	14	10	60	4	20	112 13	111 01 13	111 02 13	111 03 13						
			70												
		18	80												
		16													
16	19	10	60		24	*112 1610	111 01 16	111 02 16	111 03 16						
			70												
		20	90												
22	20			5	32	*111 22	111 01 22	111 02 22	111 03 22						

★ Disponible uniquement sur demande Lieferbar nur auf Anfrage Delivered only on Request

PARAMÈTRES DE COUPE INDICATIFS POUR FRAISES CIRCULAIRES EMPFOHLENE SCHNITTWERTE FÜR KREISSÄGEBLÄTTER STANDARD MACHINING DATA FOR SLITTING SAWS

Matériaux Werkstoffe Materials	N / mm2	Diamètre des fraises		Kreissägen Durchmesser		Slitting Saws diam.	
		Vc:m/min	Ø 15-30 fz:mm	Ø 30-50 fz:mm	Ø 50-80 fz:mm	Ø 80-125 fz:mm	Ø125-160 fz:mm
Acier décolletage <i>Automatenstahl</i> Free-cutting steel	~500 ~500	120-200 100-180	.002-.006 .002-.004	.003-.007 .003-.007	.005-.010 .003-.008	.005-.010 .003-.012	.003-.012 .003-.012
* Acier non allié							
* Acier faiblement allié	~750	50-80	.001-.004	.002-.006	.002-.008	.003-.010	.003-.012
Acier fortement allié	~1000	20-80	.001-.003	.002-.004	.002-.006	.003-.008	.003-.010
* Acier Acier fritté	~750	50-120	.001-.003	.002-.004	.002-.006	.003-.008	.003-.010
Acier Inox <i>Rostfreier Stahl</i> Stainless steel	~1000	50-100	.001-.003	.002-.005	.002-.008	.003-.010	.003-.012
Acier Inox réfract.	~1000	30-60	.001-.003	.002-.005	.002-.008	.003-.010	.003-.012
Titane / <i>Titan</i> / Titanium	~750	20-70	.001-.004	.002-.005	.002-.008	.003-.010	.003-.012
Laiton - Bronze	~500	100-300	.003-.007	.004-.008	.005-.010	.005-.010	.004-.012
Cuivre / <i>Kupfer</i> / Copper	~500	100-300	.003-.006	.003-.008	.004-.010	.004-.010	.004-.012
Bronze à l'alum. - Cuivre (CuAlFe)	~500	150-300	.001-.003	.002-.005	.002-.007	.003-.008	.003-.010
Aluminium alliage		150-400	.003-.006	.004-.007	.004-.008	.005-.010	.003-.012
Aluminium Si <12%		200-500	.003-.007	.004-.008	.004-.010	.005-.010	.005-.012
Aluminium Si >12%		150-400	.003-.007	.004-.008	.004-.010	.005-.010	.005-.012
Fonte / <i>Gusseisen</i> / cast iron	~750	50-120	.001-.004	.002-.005	.002-.008	.003-.010	.003-.012
Fonte graphite sphér.perlitique	<250HB	80-140	.002-.004	.002-.007	.003-.010	.004-.010	.004-.010
Fonte graphite sphér.perlitique	>250HB	50-80	.001-.004	.002-.005	.002-.008	.003-.010	.003-.012
Fonte mallé., graph.,sphér.ferrit.	>250HB	50-80	.002-.004	.003-.007	.004-.008	.004-.010	.004-.012
Or, argent / <i>Gold, Silber</i> / Gold, silver		130-180	.002-.006	.004-.008	.004-.010	.005-.010	.005-.012
Alliages spéciaux Inconel Nimonic Hasteloy		20-30	.001-.003	.002-.005	.002-.008	.002-.010	.003-.012
Magnésium alliage		150-400	.003-.006	.004-.007	.004-.010	.005-.010	.005-.012
Plastique / <i>Kunststoff</i> / Plastic		120-200	.003-.010	.004-.010	.005-.012	.003-.012	.005-.015

Valeurs indicatives: à interpréter selon caractéristiques de la machine, serrages de la matière et porte-outils, fluide d'arrosage, etc...

Richtwerte: Nach Eigenschaften der Maschine zu interpretieren; Festklemmen von Material und Werkzeughalter; Kühflüssigkeit; usw...

Approximate values: Depending on the machine characteristics; Material and tool clamping device; Cooling liquid; etc...

*Acier / *Stahl* / Steel

Laiton / *Messing* / brass

☎ ++ 41 32 494 64 74

E-mail: info@precitool.ch
Adresse: www.precitool.ch

Fax ++ 41 32 494 64 77

PRECITOOL

PLAQUETTES CARBURE

- Utilisables: 2 côtés
- Réaffûtables
- Fixations: gauche et droite
- Standards ou selon dessin
- Revêtements : Non revêtues.
TiN, TiCN, FUTURA
- Sur demande: formes et revêtements particuliers.

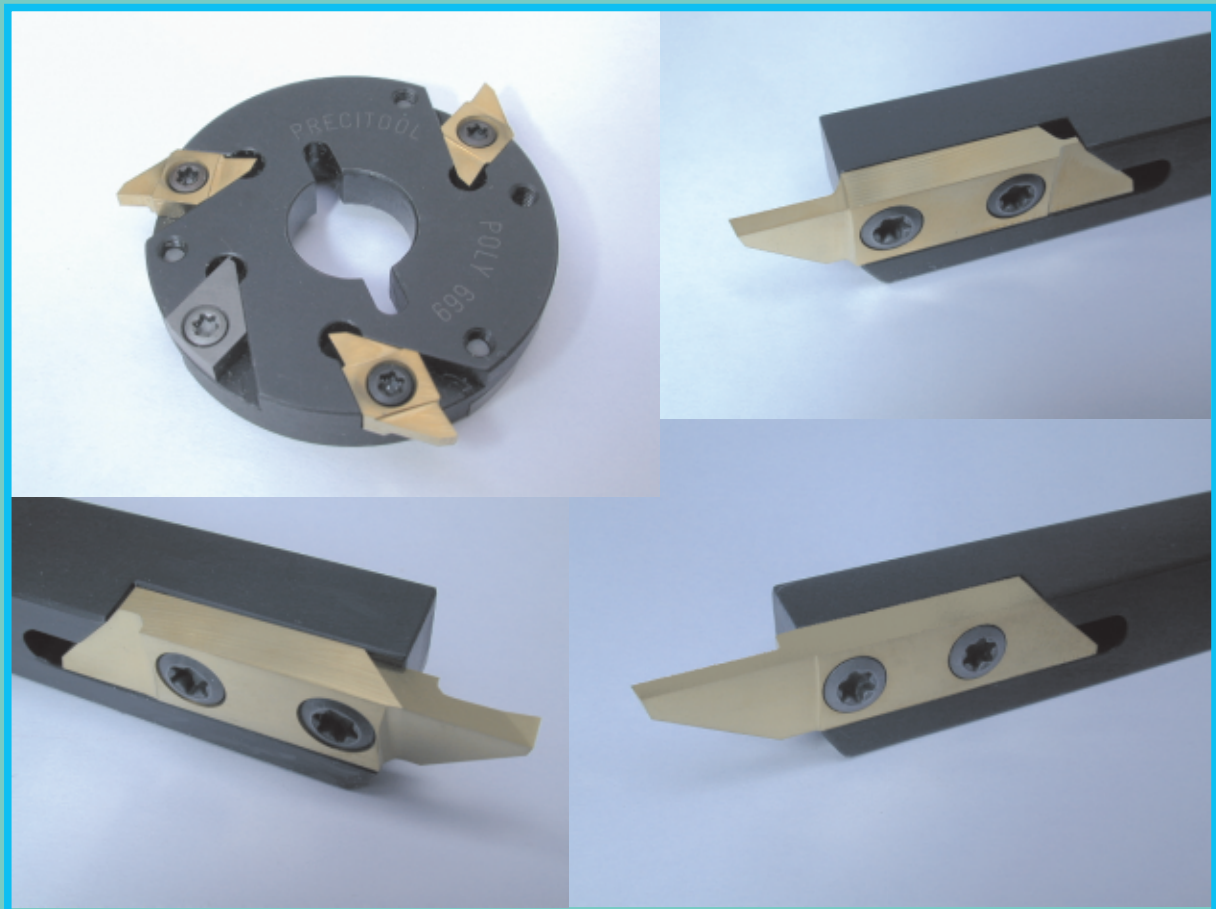
VHM PLATTEN

- Benutzung: beidseitig
- Nachschleifbar
- Fixierung: links und rechts
- Standard oder nach Zeichnung
- Beschichtung : Unbeschichtet
TiN, TiCN, FUTURA
- Auf Anfrage: Formen und besondere Beschichtung.

CARBIDE INSERT

- Usable: both sides
- Re grindable
- Fixations: left and right
- Standard or after drawing
- Coated : Without coating
TiN, TiCN, FUTURA
- On demand: Forms and special coating

DECO



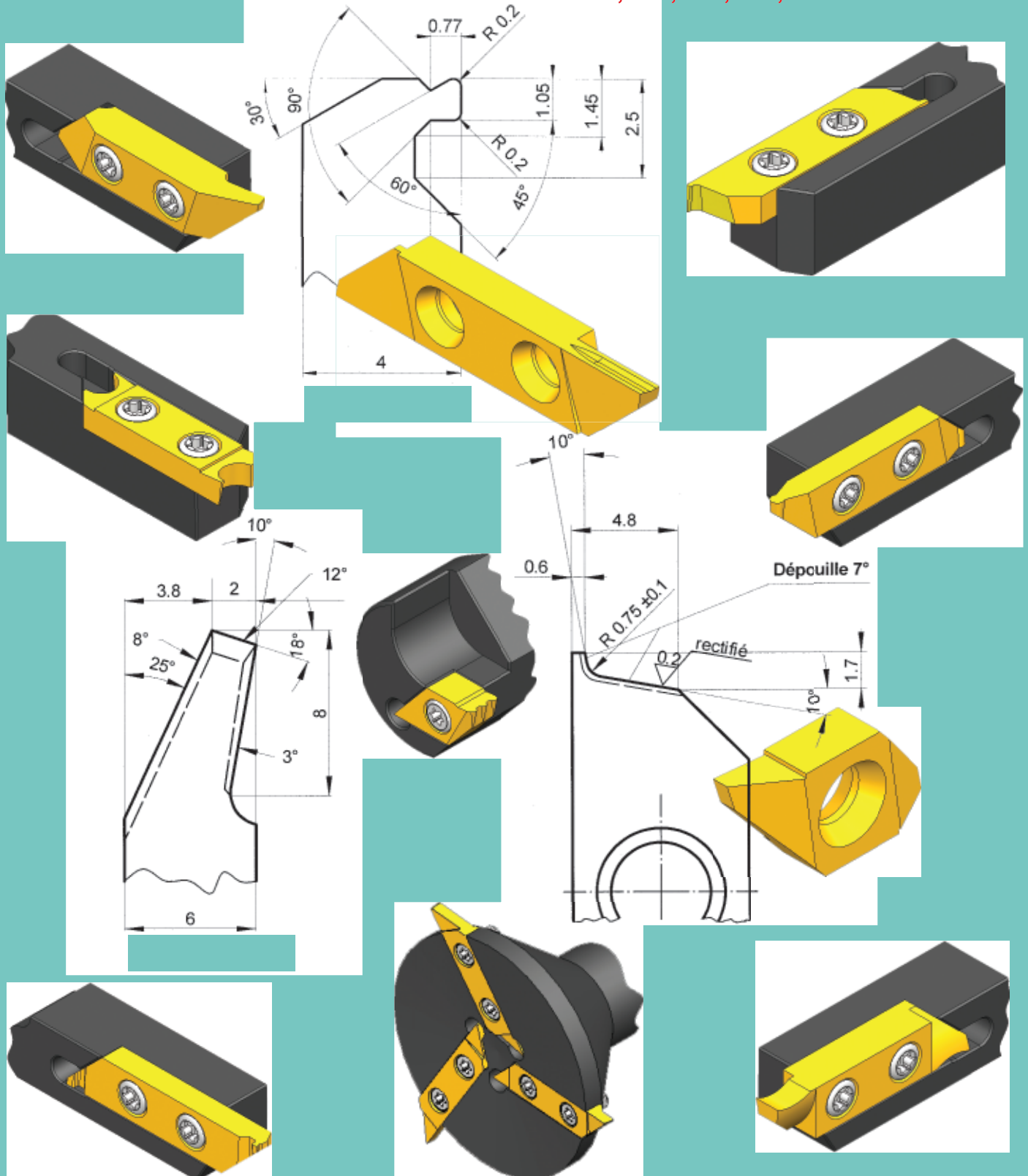
PRECITOOL SA
56, rue de Soleure
CH-2740 MOUTIER

E-mail: info@precitool.ch
 Adresse: www.precitool.ch

++ 41 32 494 64 74
 Fax ++ 41 32 494 64 77




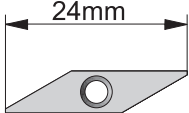



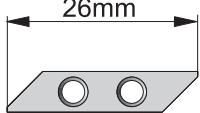

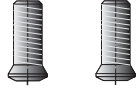
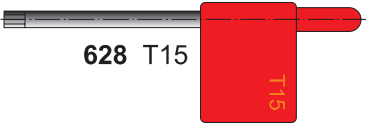
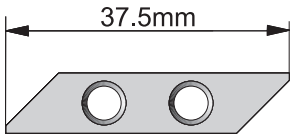
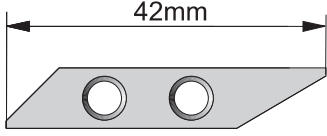

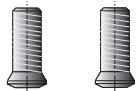
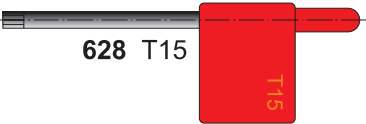
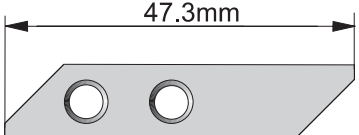
REALISATION DE PLAQUETTES SPECIALES SELON DESSIN
FORMPLATTEN NACH ZEICHNUNG
SPECIAL FORM INSERTS TO DRAWING

Sur base / Fundiert auf / Based on : 615; 630; 671; 715; 815



PORTE-PLAQUETTES KLEMMHALTER INSERTHOLDERS

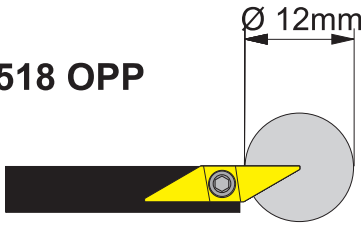
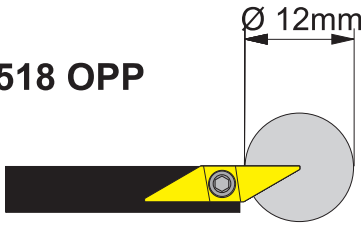
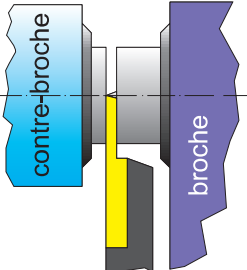
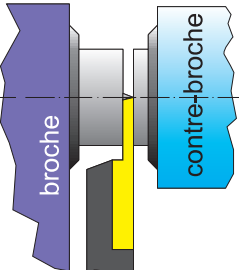
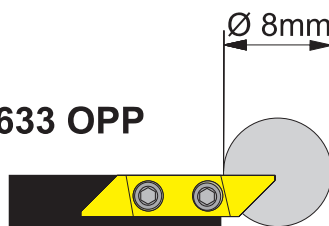
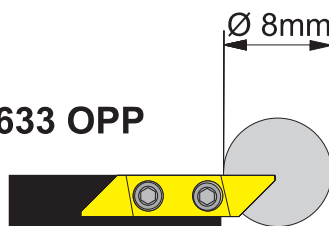
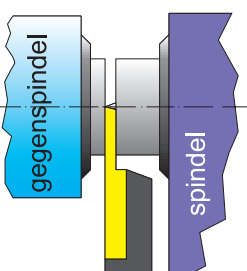
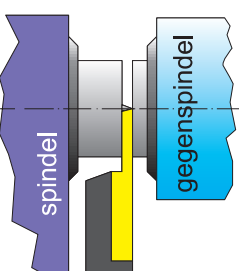
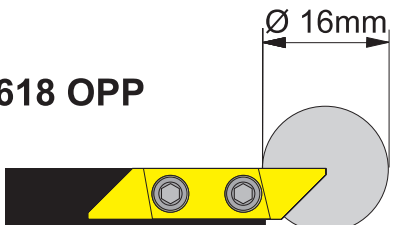
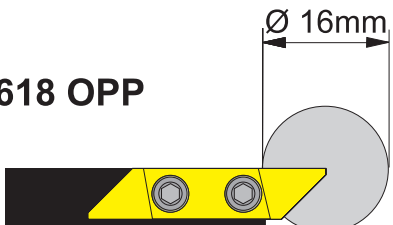
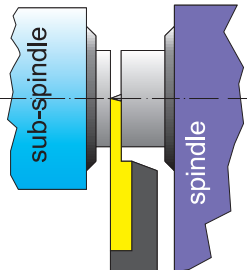
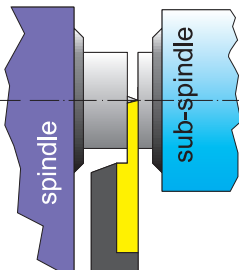
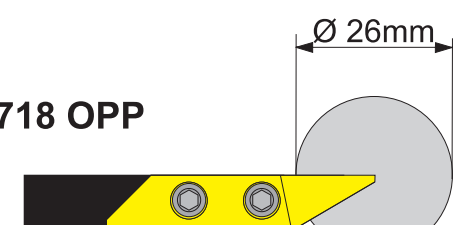
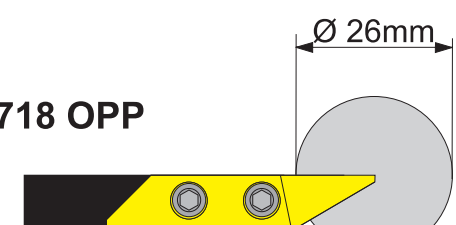
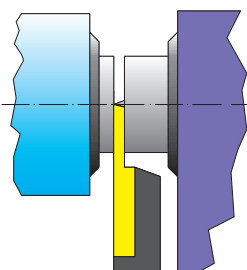
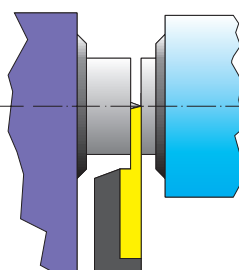
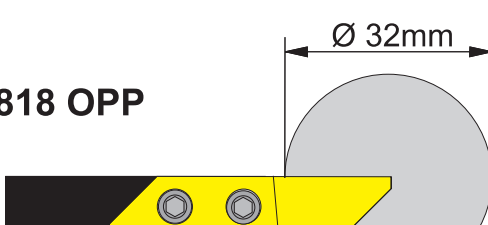
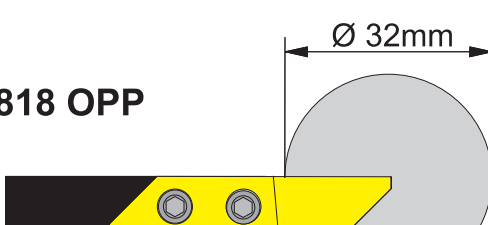
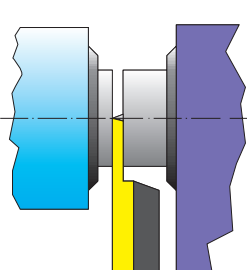
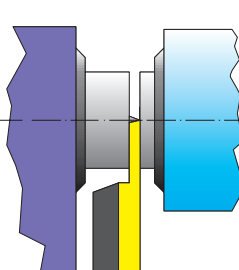
PLAQUETTES PLÄTTCHEN INSERTS **L / R**

 <p> 507L/R 7x7x150mm 508L/R 8x8x150mm 510 100L/R 10x10x100mm 510 150L/R 10x10x150mm 512 100L/R 12x12x100mm 512 150L/R 12x12x150mm 514 100L/R 14x14x100mm 516 100L/R 16x16x100mm 520 100L/R 20x20x100mm </p>  <p>627-V M2.5x7</p>  <p>627 T8</p>	 <p>24mm</p> <p>E= 3mm</p>	515
 <p> 608L/R 7x7x150mm 609L/R 8x8x150mm 609 10L/R 10x10x150mm 609 12L/R 12x12x150mm 609 20L/R 20x20x150mm </p>  <p>627-V M2.5x7</p>  <p>627 T8</p>	 <p>26mm</p> <p>E= 3mm</p>	630
 <p> 610 L/R 10x10x100mm 611 L/R 10x10x150mm 612 L/R 12x12x100mm 613 L/R 12x12x150mm 614 L/R 14x14x150mm 622 L/R 16x16x100/140mm 623 L/R 20x20x100/140mm </p>  <p>628-V M3.5x9</p>  <p>628 T15</p>	 <p>37.5mm</p> <p>E= 4mm / 6mm</p>  <p>42mm</p> <p>E= 4mm</p>	615 715
 <p> 800 L/R 16x16x140mm 801 L/R 20x20x140mm 802 L/R 25x25x140mm </p>  <p>628-V M3.5x9</p>  <p>628 T15</p>	 <p>47.3mm</p> <p>E= 4.1mm</p>	815

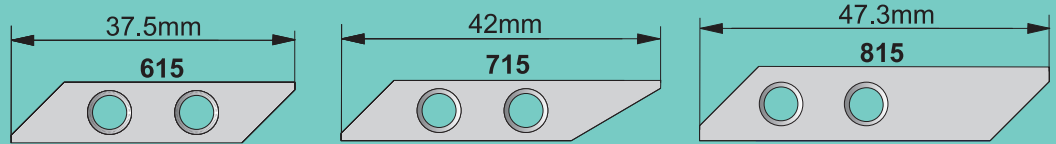
TRONCONNAGE ABSTECHEN CUT OFF

Type	Typ	Type	R	E [mm]	L	
				Revêtement Beschichtung Coated		
518				$E = \begin{array}{ c c c c } \hline 1.0 & 1.5 & 2.0 & 2.5 \\ \hline \sim \varnothing = 10 & 12 & 12 & 14 \\ \hline \end{array}$ <p>Non revêtue FUTURA</p>		515
633				$E = \begin{array}{ c c c c c c } \hline 0.8 & 1.0 & 1.2 & 1.5 & 1.8 & 2.0 \\ \hline \sim \varnothing = 6 & 6 & 6 & 8 & 8 & 8 \\ \hline \end{array}$ <p>Non revêtue TiN TiCN FUTURA</p>		630
618				$E = \begin{array}{ c c c c c } \hline 0.8 & 1.0 & 1.2 & 1.5 & 1.8 \\ \hline \sim \varnothing = 10 & 10 & 10 & 14 & 14 \\ \hline \end{array}$ $E = \begin{array}{ c c c c } \hline 2.0 & 2.2 & 2.5 & 3.0 \\ \hline \sim \varnothing = 16 & 16 & 16 & 16 \\ \hline \end{array}$ <p>Non revêtue TiN TiCN FUTURA</p>		615
718				$E = \begin{array}{ c c c } \hline 2.0 & 2.5 & 3.0 \\ \hline \sim \varnothing = 22 & 26 & 26 \\ \hline \end{array}$ <p>Non revêtue TiN TiCN FUTURA</p>		715
818				$E = \begin{array}{ c c c } \hline 3.0 & 3.5 & 4.0 \\ \hline \sim \varnothing = 32 & 32 & 32 \\ \hline \end{array}$ <p>Non revêtue TiN TiCN FUTURA</p>		815

TRONCONNAGE ABSTECHEN CUT OFF "OPPOSEES"

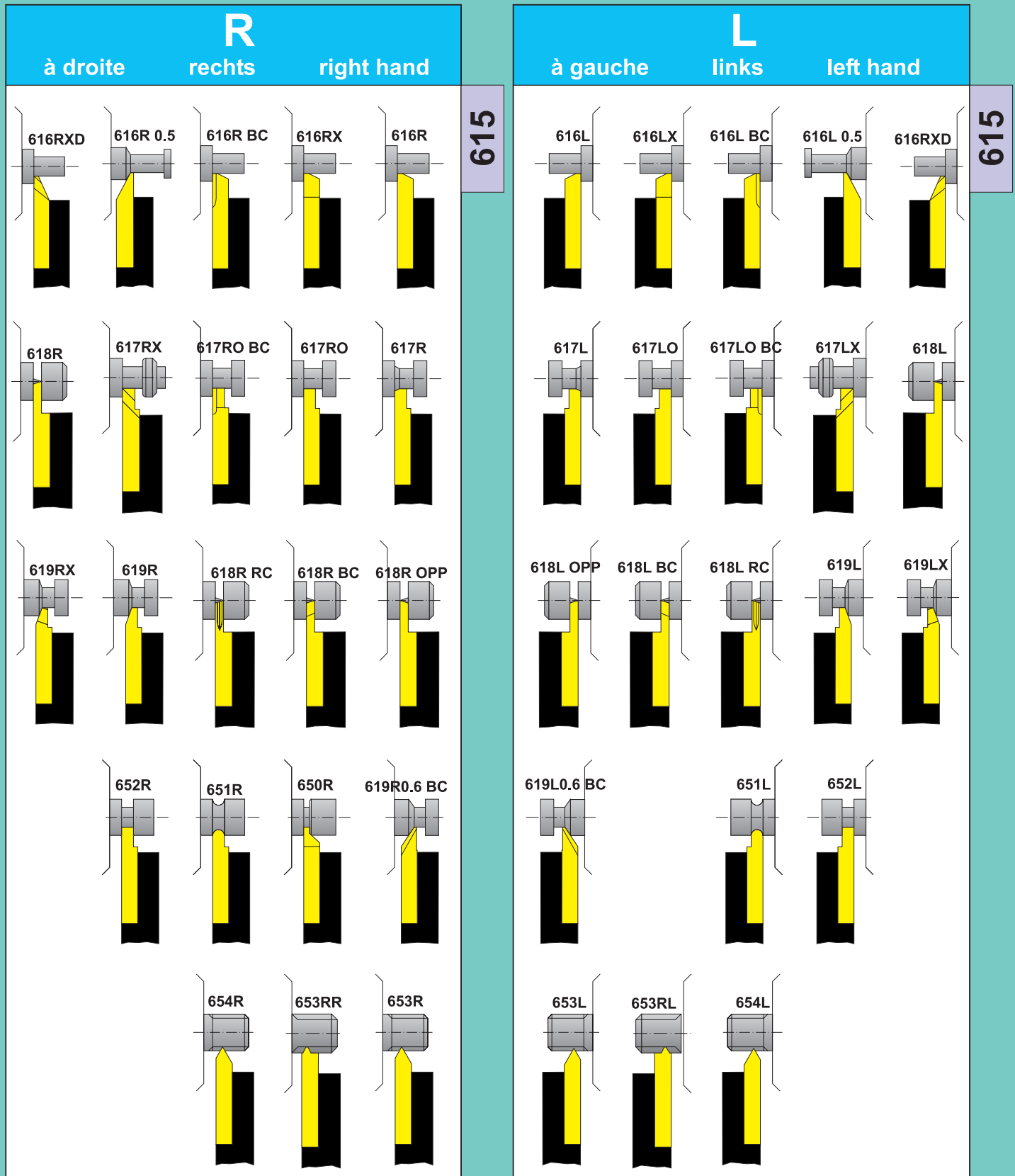
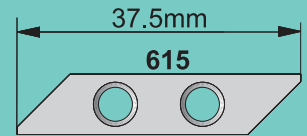
Type	Typ	Type	R opp.	E [mm]	L opp.	
			Revêtement Beschichtung Coated			
518 OPP				$\begin{array}{c} E = 1.0 1.5 2.0 \\ \sim \varnothing = 10 12 12 \end{array}$ <p>Non revêtue FUTURA</p>		515
633 OPP				$\begin{array}{c} E = 1.0 1.5 2.0 \\ \sim \varnothing = 6 8 8 \end{array}$ <p>Non revêtue TiN TiCN FUTURA</p>		630
618 OPP				$\begin{array}{c} E = 1.5 2.0 \\ \sim \varnothing = 14 16 \end{array}$ <p>Non revêtue TiN TiCN FUTURA</p>		615
718 OPP				$\begin{array}{c} E = 2.0 2.5 3.0 \\ \sim \varnothing = 22 26 26 \end{array}$ <p>Non revêtue TiN TiCN FUTURA</p>		715
818 OPP				$\begin{array}{c} E = 3.0 3.5 \\ \sim \varnothing = 32 32 \end{array}$ <p>Non revêtue TiN TiCN FUTURA</p>		815

TRONCONNAGE BC et RC ABSTECHEN BC und RC CUT OFF BC and RC



Forme Form Form		Usage Anwendung Application	Type Typ Type	E X [mm]	Revêtement Beschichtung Coated	
 	 	Tronçonnage	618L BC	$E = \begin{matrix} 1.5 & 2.0 & 2.5 \\ \hline X = & 7 & 8 & 8 \\ \hline \alpha = & 18^\circ & 12^\circ & 12^\circ \end{matrix}$	Non revêtue TiN TiCN FUTURA	615
		Abstechen	618R BC			
		Part off				
 	 	Tronçonnage	718L BC	$E = \begin{matrix} 2.5 & 3.0 \\ \hline X = & 13 & 13 \\ \hline \alpha = & 12^\circ & 12^\circ \end{matrix}$	Non revêtue TiN TiCN FUTURA	715
		Abstechen	718R BC			
		Part off				
 	 	Tronçonnage	818L BC	$E = \begin{matrix} 3.0 & 3.5 \\ \hline X = & 16 & 16 \\ \hline \alpha = & 12^\circ & 12^\circ \end{matrix}$	Non revêtue TiN TiCN FUTURA	815
		Abstechen	818R BC			
		Part off				
 	 	Tronçonnage	618L RC	$E = \begin{matrix} 1.5 & 2.0 & 2.5 \\ \hline X = & 7 & 8 & 8 \\ \hline \alpha = & 18^\circ & 12^\circ & 12^\circ \end{matrix}$	Non revêtue TiN TiCN FUTURA	615
		Abstechen	618R RC			
		Part off				
 	 	Tronçonnage	718L RC	$E = \begin{matrix} 2.5 & 3.0 \\ \hline X = & 13 & 13 \\ \hline \alpha = & 12^\circ & 12^\circ \end{matrix}$	Non revêtue TiN TiCN FUTURA	715
		Abstechen	718R RC			
		Part off				
 	 	Tronçonnage	818L RC	$E = \begin{matrix} 3.0 & 3.5 \\ \hline X = & 16 & 16 \\ \hline \alpha = & 12^\circ & 12^\circ \end{matrix}$	Non revêtue TiN TiCN FUTURA	815
		Abstechen	818R RC			
		Part off				

PROGRAMME TYPE 615 PROGRAMM TYP 615 PROGRAM TYPE 615

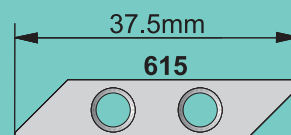


PORTE-PLAQUETTES POUR TYPE 615

KLEMMHALTER FÜR TYP 615

INSERT HOLDERS FOR TYPE 615

∅ 10 - 12 - 14 - 16 - 20mm



Forme Form Form	Type Typ Type	∅ C [mm]	L [mm]
	610L/R	10 x 10	100
	611L/R	10 x 10	150
	612L/R	12 x 12	100
	613L/R	12 x 12	150
	614L/R	14 x 14	150
	622L/R	16 x 16	100 / 140
	623L/R	20 x 20	100 / 140

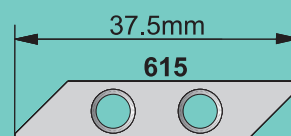
615

PLAQUETTE CARBURE TYPE 615 / Deux coupes et affûtables

HARTMETALLPLATTEN TYP 615 / Beidseitig und nachschleifbar

CARBIDE INSERTS TYPE 615 / Double ended and regrindable

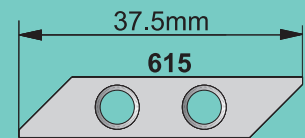
∅ 10 - 12 - 14 - 16 - 20mm



Forme Form Form	Usage Anwendung Application	Type Typ Type	E [mm]	Revêtement Beschichtung Coated
	Tournage avant Drehen vorne Front turn	616L 616R	E=4	Non revêtue TiN TiCN FUTURA
	Tournage avant Drehen vorne Front turn	616LX 616RX	E=4	Non revêtue TiN TiCN FUTURA
	Tournage avant Drehen vorne Front turn	616L BC 616R BC	E=4	Non revêtue TiN TiCN FUTURA

615

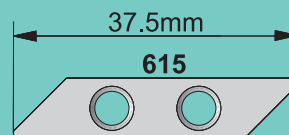
PLAQUETTE CARBURE TYPE **615** / Deux coupes et affûtables
 HARTMETALLPLATTEN TYP **615** / Beidseitig und nachschleifbar
 CARBIDE INSERTS TYPE **615** / Double ended and regrindable
 ∅ 10 - 12 - 14 - 16 - 20mm



Forme Form Form	Usage Anwendung Application	Type Typ Type	E X [mm]	Revêtement Beschichtung Coated
	Tournage avant Drehen vorne Front turn	616L 0.5 616R 0.5	E=0.5	Non revêtue TiN TiCN FUTURA
	Tournage avant Drehen vorne Front turn	616LXD 616RXD		Non revêtue TiN TiCN FUTURA
	Tournage arrière finition Feindreihen hinten Finisch back turn	617L 617R	$\frac{E=1.5 1.8 2.0 2.2}{X=4 4 5 5}$ $\frac{E=2.5 2.8 3.0}{X=7 7 7}$	Non revêtue TiN TiCN FUTURA
	Tournage arrière finition Feindreihen hinten Finisch back turn	617LO 617RO	$\frac{E=1.0 1.5 2.0 2.5 3.0}{X=2 3 4 5 6}$	Non revêtue TiN TiCN FUTURA
	Tournage arrière Drehen hinten Back turn	617LO BC 617RO BC	$\frac{E=2.5}{X=6}$	Non revêtue TiN TiCN FUTURA
	Chariotage fonçage d'une gorge et tournage arrière avec coupe. Drehung hinten mit Schnitt und Stechen einer Nut. Groove and turn with top rake and chip roller.	617LX 617RX	$\frac{E=0.8 1.0 1.5}{X=2 2 3}$ $\frac{E=2.0 2.5 3.0}{X=4 5 5}$	Non revêtue TiN TiCN FUTURA

615

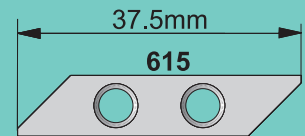
PLAQUETTE CARBURE TYPE **615** / Deux coupes et affûtables
 HARTMETALLPLATTEN TYP **615** / Beidseitig und nachschleifbar
 CARBIDE INSERTS TYPE **615** / Double ended and regrindable
 ∅ 10 - 12 - 14 - 16 - 20mm



Forme Form Form	Usage Anwendung Application	Type Typ Type	E X [mm]	Revêtement Beschichtung Coated
	Tronçonnage Abstechen	618L	$\begin{array}{c c c c c} E= & 0.8 & 1.0 & 1.2 & 1.5 & 1.8 \\ \hline X= & 5 & 5 & 5 & 7 & 7 \\ \hline \alpha= & 18^\circ & 18^\circ & 18^\circ & 18^\circ & 18^\circ \end{array}$	Non revêtue TiN TiCN FUTURA
	Part off	618R	$\begin{array}{c c c c} E= & 2.0 & 2.2 & 2.5 & 3.0 \\ \hline X= & 8 & 8 & 8 & 8 \\ \hline \alpha= & 12^\circ & 12^\circ & 12^\circ & 12^\circ \end{array}$	
	Tronçonnage Abstechen	618L OPP	$\begin{array}{c c c} E= & 1.5 & 2.0 \\ \hline X= & 7 & 8 \\ \hline \alpha= & 18^\circ & 18^\circ \end{array}$	Non revêtue TiN TiCN FUTURA
	Part off	618R OPP		
	Tronçonnage Abstechen	618L BC	$\begin{array}{c c c c} E= & 1.5 & 2.0 & 2.5 \\ \hline X= & 7 & 8 & 8 \\ \hline \alpha= & 18^\circ & 12^\circ & 12^\circ \end{array}$	Non revêtue TiN TiCN FUTURA
	Part off	618R BC		
	Tronçonnage Abstechen	618L RC	$\begin{array}{c c c c} E= & 1.5 & 2.0 & 2.5 \\ \hline X= & 7 & 8 & 8 \\ \hline \alpha= & 18^\circ & 12^\circ & 12^\circ \end{array}$	Non revêtue TiN TiCN FUTURA
	Part off	618R RC		
	Tournage arrière ébauche Vordrehen hinten Rough back turn	619L	<p>Détail A</p>	Non revêtue TiN TiCN FUTURA
		619R		
	Tournage arrière ébauche avec coupe Vordrehen hinten mit Spanleitstufe Rough back turn with top rake	619LX	<p>Détail A</p>	Non revêtue TiN TiCN FUTURA
		619RX		

615

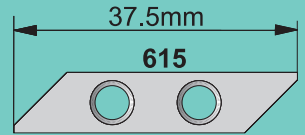
PLAQUETTE CARBURE TYPE **615** / Deux coupes et affûtables
 HARTMETALLPLATTEN TYP **615** / Beidseitig und nachschleifbar
 CARBIDE INSERTS TYPE **615** / Double ended and regrindable
 ∅ 10 - 12 - 14 - 16 - 20mm



Forme Form Form	Usage Anwendung Application	Type Typ Type	E R [mm]	Revêtement Beschichtung Coated
	Tournage arrière Drehen hinten Back turn	619L0.6 BC 619R0.6 BC	E=0.6	Non revêtue TiN TiCN FUTURA
	Pré-coupeur pour multibroches Vorschneider für Mehrspindelautomat Pre part off for multispindles	650R	E=1.4 - 1.6 - 1.8	Non revêtue TiN TiCN FUTURA
	Rayon Radius Radius	651L 651R	$\begin{array}{c c c} R= & 0.5 & 0.75 & 1.0 \\ \hline X= & 2 & 3 & 4 \end{array}$ $\begin{array}{c c c} R= & 1.25 & 1.5 & 2.0 \\ \hline X= & 5 & 6 & 6 \end{array}$	Non revêtue TiN TiCN FUTURA
	Gorge Präzisions-Einstich Groove	652L 652R	$\begin{array}{c c c c} E= & 0.8 & 1.0 & 1.5 & 2.0 \\ \hline X= & 2 & 2 & 3 & 4 \end{array}$	Non revêtue TiN TiCN FUTURA
	Filetage (autres profils sur demande) Gewinde (andere Profile auf Anfrage) Threading (other profiles on demand)	653L 653R	60° Métrique ISO Metrisch ISO Metric ISO	Non revêtue TiN TiCN FUTURA
	Filetage complet (autres profils sur demande) Gesamt Gewinde (andere Profile auf Anfrage) Full Threading (other profiles on demand)	653RL 653RR	60° Métrique Metrisch Metric Pas Steigung Pitch 0.25-0.30-0.35-0.40-0.45- 0.50-0.60-0.70-0.75-0.80- 1.00-1.25-1.50-1.75	Non revêtue TiN TiCN FUTURA

615

PLAQUETTE CARBURE TYPE **615** / Deux coupes et affûtables
 HARTMETALLPLATTEN TYP **615** / Beidseitig und nachschleifbar
 CARBURE INSERTS TYPE **615** / Double ended and regrindable
 ∅ 10 - 12 - 14 - 16 - 20mm



Forme Form Form	Usage Anwendung Application	Type Typ Type	E [mm]	Revêtement Beschichtung Coated
	Filetage (autres profils sur demande)	654L	55° Whitworth W	Non revêtue TiN TiCN FUTURA
	Gewinde (andere Profile auf Anfrage)	654R		
	Threading (other profiles on demand)			

615

PLAQUETTES DE FORME
 FORMPLATTEN
 FORM INSERTS

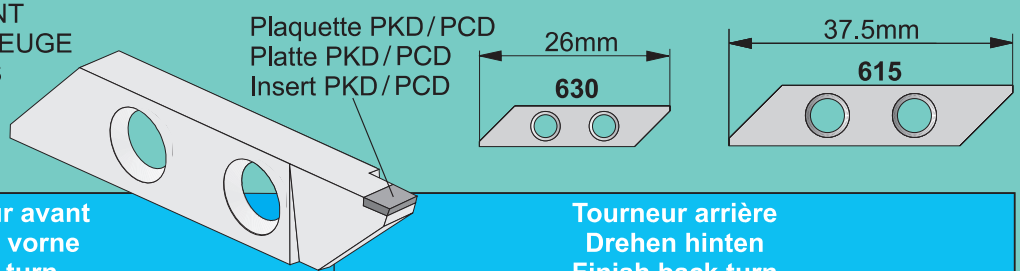
Forme Form Form	Caractéristiques Kennzeichnungen Characteristics	Revêtement Beschichtung Coated
	615: E = 4 - 6 mm 630: E = 3mm Réalisation de plaquettes spéciales selon dessin. Formplattens nach Zeichnung. Special form inserts to drawing.	Non revêtue TiN TiCN FUTURA

630

615

OUTILS DE COUPE DIAMANT
 DIAMANT-SCHNEIDWERKZEUGE
 DIAMOND CUTTING TOOLS

Dimensions en [mm]
 Masse in [mm]
 Dimension in [mm]

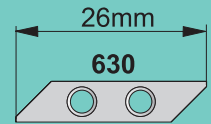


Tourneur avant Drehen vorne Front turn		Tourneur arrière Drehen hinten Finish back turn	
Autres profils sur demande		Andere Profile auf Anfrage Other profiles on demand	
631L PKD/PCD 631R PKD/PCD	616L PKD/PCD 616R PKD/PCD	632L PKD/PCD 632R PKD/PCD	617L PKD/PCD 617R PKD/PCD

630

615

PROGRAMME TYPE 630 PROGRAMM TYP 630 INSERT PROGRAM TYPE 630



R			
à droite	rechts	right hand	
630			
tourneur arrière drehen hinten back turning 632RO	tourneur arrière drehen hinten back turning 632R	tourneur avant drehen vorne front turning 631R	
coupeur abstechen part off 633R OPP	coupeur abstechen part off 633R	tourneur avant et arrière drehen vorne und hinten front or back turning 632RX	
filetage 55° gewinde 55° threading 55° 663R	Filetage 60° gewinde 60° threading 60° 662R	gorge präzisions-einstich groove 661R	rayon radius radius 660R

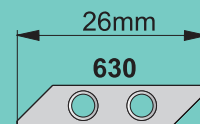
L			
à gauche	links	left hand	
630			
tourneur avant drehen vorne front turning 631L	tourneur arrière drehen hinten back turning 632L	tourneur arrière drehen hinten back turning 632LO	
tourneur avant et arrière drehen vorne und hinten front or back turning 632LX	coupeur abstechen part off 633L	coupeur abstechen part off 633L OPP	
rayon radius radius 660L	gorge präzisions-einstich groove 661L	filetage 60° gewinde 60° threading 60° 662L	filetage 55° gewinde 55° threading 55° 663L

PORTE-PLAQUETTES POUR TYPE 630

KLEMMHALTER FÜR TYP 630

INSERT HOLDERS FOR TYP 630

∅ 7 - 8 - 10 - 12 - 20mm



Forme Form Form	Type Typ Type	∅ C [mm]	L [mm]
	608L/R	7 x 7	150
	609L/R	8 x 8	150
	609 10L/R	10 x 10	150
	609 12L/R	12 x 12	150
	609 20L/R	20 x 20	100

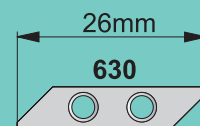
630

PLAQUETTE CARBURE TYPE 630 / Deux coupes et affûtables

HARTMETALLPLATTEN TYP 630 / Beidseitig und nachschleifbar

CARBIDE INSERTS TYPE 630 / Double ended and regrindable

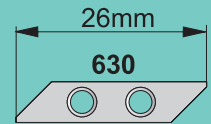
∅ 7 - 8 - 10 - 12 - 20mm



Forme Form Form	Usage Anwendung Application	Type Typ Type	E X [mm]	Revêtement Beschichtung Coated
	Tournage avant Drehen vorne Front turn	631L 631R	E=3	Non revêtue TiN TiCN FUTURA
	Tournage arrière Drehen hinten Back turn	632L 632R	$\begin{array}{ c c c c } \hline E= & 1.0 & 1.2 & 1.5 & 1.8 \\ \hline X= & 3 & 3 & 4 & 4 \\ \hline \end{array}$ $\begin{array}{ c c c c } \hline E= & 2.0 & 2.2 & 2.5 \\ \hline X= & 4 & 4 & 4 \\ \hline \end{array}$	Non revêtue TiN TiCN FUTURA
	Tournage arrière Drehen hinten Back turn	632LO 632RO	$\begin{array}{ c c c c } \hline E= & 1.0 & 1.5 & 2.0 & 2.5 \\ \hline X= & 3 & 4 & 4 & 4 \\ \hline \end{array}$	Non revêtue TiN TiCN FUTURA
	Tournage arrière Drehen hinten Back turn	632LX 632RX	$\begin{array}{ c c c } \hline E= & 1.0 & 1.2 & 1.5 \\ \hline X= & 2 & 3 & 3 \\ \hline \end{array}$ $\begin{array}{ c c c } \hline E= & 2.0 & 2.2 & 2.5 \\ \hline X= & 4 & 5 & 5 \\ \hline \end{array}$	Non revêtue TiN TiCN FUTURA

630

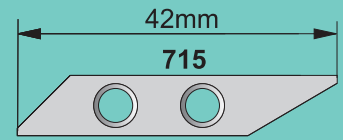
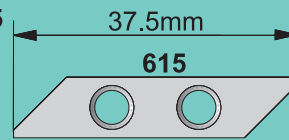
PLAQUETTE CARBURE TYPE 630 / Deux coupes et affûtables
 HARTMETALLPLATTEN TYP 630 / Beidseitig und nachschleifbar
 CARBIDE INSERTS TYPE 630 / Double ended and regrindable
 ∅ 7 - 8 - 10 - 12 - 20mm



Forme Form Form	Usage Anwendung Application	Type Typ Type	E R X [mm]	Revêtement Beschichtung Coated																					
	Tronçonnage Abstechen Part off	633L 633R	<table border="1"> <tr> <td>E=</td> <td>0.8</td> <td>1.0</td> <td>1.2</td> <td>1.5</td> <td>1.8</td> <td>2.0</td> </tr> <tr> <td>X=</td> <td>3</td> <td>3</td> <td>3</td> <td>4</td> <td>4</td> <td>4</td> </tr> <tr> <td>α=</td> <td>18°</td> <td>18°</td> <td>18°</td> <td>18°</td> <td>18°</td> <td>18°</td> </tr> </table>	E=	0.8	1.0	1.2	1.5	1.8	2.0	X=	3	3	3	4	4	4	α=	18°	18°	18°	18°	18°	18°	Non revêtue TiN TiCN FUTURA
E=	0.8	1.0	1.2	1.5	1.8	2.0																			
X=	3	3	3	4	4	4																			
α=	18°	18°	18°	18°	18°	18°																			
	Tronçonnage Abstechen Part off	633L OPP 633R OPP	<table border="1"> <tr> <td>E=</td> <td>1.0</td> <td>1.5</td> <td>2.0</td> </tr> <tr> <td>X=</td> <td>3</td> <td>4</td> <td>4</td> </tr> <tr> <td>α=</td> <td>18°</td> <td>18°</td> <td>18°</td> </tr> </table>	E=	1.0	1.5	2.0	X=	3	4	4	α=	18°	18°	18°	Non revêtue TiN TiCN FUTURA									
E=	1.0	1.5	2.0																						
X=	3	4	4																						
α=	18°	18°	18°																						
	Rayon Radius Radius	660L 660R	<table border="1"> <tr> <td>R=</td> <td>0.25</td> <td>0.5</td> <td>0.75</td> </tr> <tr> <td>X=</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>R=</td> <td>1.0</td> <td>1.25</td> <td>1.5</td> </tr> <tr> <td>X=</td> <td>4</td> <td>4</td> <td>5</td> </tr> </table>	R=	0.25	0.5	0.75	X=	1	2	3	R=	1.0	1.25	1.5	X=	4	4	5	Non revêtue TiN TiCN FUTURA					
R=	0.25	0.5	0.75																						
X=	1	2	3																						
R=	1.0	1.25	1.5																						
X=	4	4	5																						
	Gorge Präzisions-Einstich Groove	661L 661R	E=0.5-0.6-0.8-1-1.2-1.4-1.5-1.8-2 X=(2 x E) Sur demande Auf Anfrage On demand	Non revêtue TiN TiCN FUTURA																					
	Filetage (autres profils sur demande) Gewinde (andere Profile auf Anfrage) Threading (other profiles on demand)	662L 662R	60° Métrique ISO Metrisch ISO Metric ISO	Non revêtue TiN TiCN FUTURA																					
	Filetage (autres profils sur demande) Gewinde (andere Profile auf Anfrage) Threading (other profiles on demand)	663L 663R	55° Whitworth W	Non revêtue TiN TiCN FUTURA																					

630

PORTE-PLAQUETTES "TYPE F" POUR TYPE 615 ET 715
 KLEMMHALTER "TYP F" FÜR TYP 615 UND 715
 INSERT HOLDERS "TYPE F" FOR TYPE 615 AND 715
 ∅ 10 - 12 - 14 - 16 - 20mm



Forme Form Form	Type Typ Type	∅ C [mm]	L [mm]
	610L-F / 610R-F	10 x 10	100
	611L-F / 611R-F	10 x 10	150
	612L-F / 612R-F	12 x 12	100
	613L-F / 613R-F	12 x 12	150
	614L-F / 614R-F	14 x 14	150
	622L-F / 622R-F	16 x 16	100 / 140
	623L-F / 623R-F	20 x 20	100 / 140

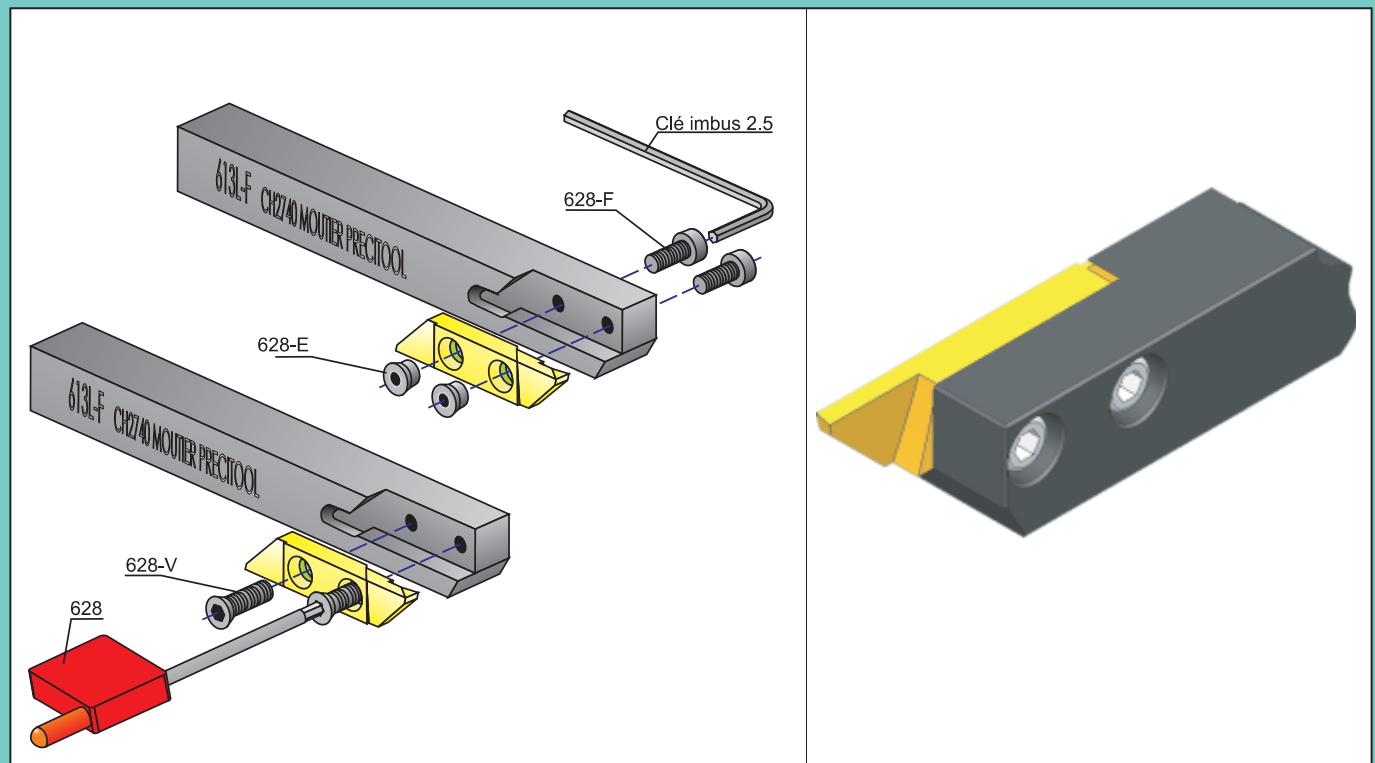
615

715

Plaquette interchangeable sans enlever le porte-plaquette de la machine. Les inserts **628-E** se monte par pression.

Auswechseln der Wendeplatten an der Maschine ohne Entfernung des Halters. Die Stifte **628-E** montieren sich mit leichtem Druck.

Interchangeable inserts without removing the tool holder from the machine. When changing inserts do not over the screw **628-E**.



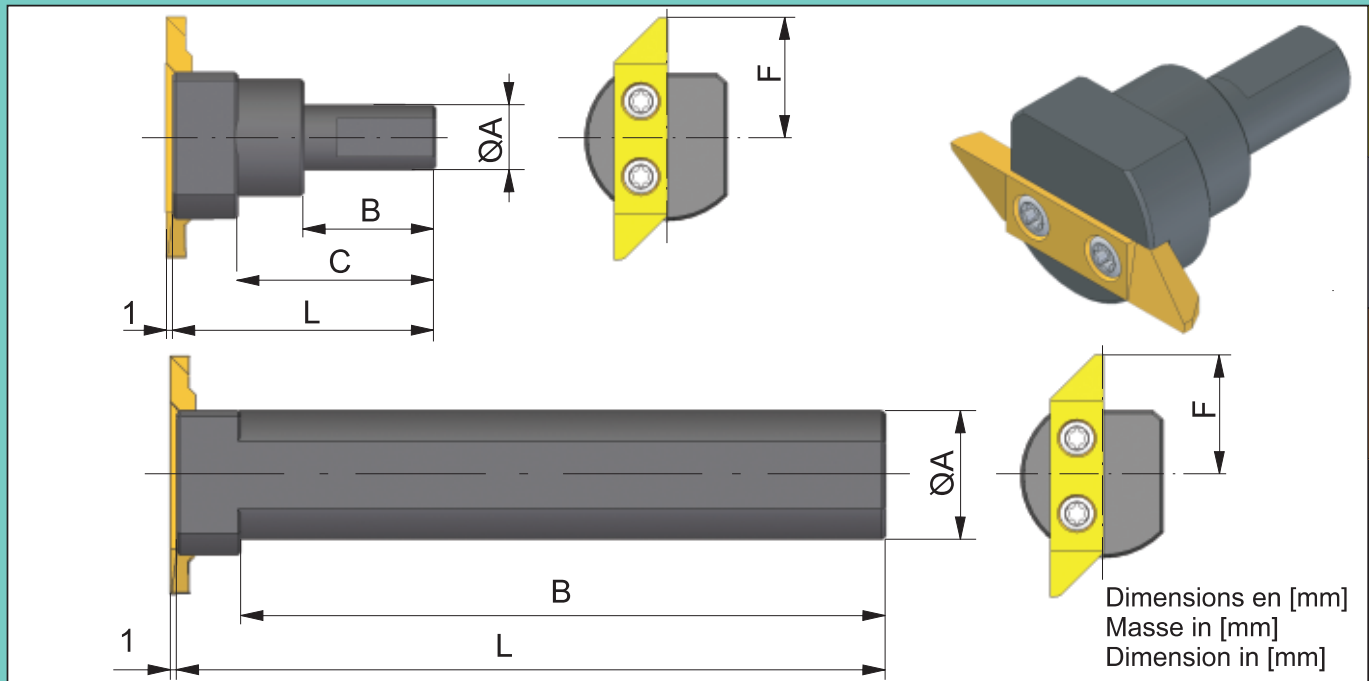
MULTIBROCHES MEHRSPINDEL MULTISPINDLE

Porte-plaquettes pour multibroches Klemmhalter für Mehrspindel Drehautomat Insert holders for multispindle automatic		Usage Anwendung Application
615	<p>780R</p> <p>12x12x100</p> <p>Ø 16mm</p> <p>6°</p> <p>Plaquettes type 618L/R Plättchen Typ 618L/R Inserts type 618L/R</p>	<p>Avec Mit 618R 2 OPP For</p> <p>contre-broche Gegenspindel subspindle</p> <p>Avec Mit 718L 2.5 OPP For</p> <p>contre-broche Gegenspindel subspindle</p>
715	<p>781R</p> <p>12x12x100</p> <p>Ø 26mm</p> <p>5°</p> <p>Plaquettes type 718L/R Plättchen Typ 718L/R Inserts type 718L/R</p>	
815	<p>782R</p> <p>16x16x120</p> <p>Ø 32mm</p> <p>5°</p> <p>Plaquettes type 818L/R Plättchen Typ 818L/R Inserts type 818L/R</p>	

PORTE- PLAQUETTES SPECIAUX SPEZIALKLEMMHALTER SPECIAL INSERTHOLDERS

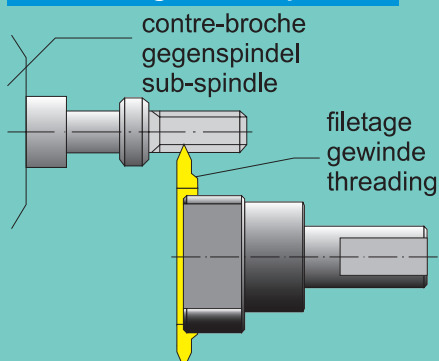
<p>Type 600</p> <p>Pour TORNOS DECO10</p>	<p>Type 624</p> <p>Outil déporté pour filetage Offset threading holder threads Halter seitlich verschoben zum Gewinde</p>	<p>Type 621R</p> <p>12x12x80mm Tornos TOP100</p>
--	--	---

PORTE-PLAQUETTES: POUR CONTRE OPÉRATION AVEC CONTRE-BROCHE
KLEMMHALTER: FÜR DREHEN MIT GEGENSPINDEL
INSERT HOLDER: FOR TURNING ON SUB-SPINDLE

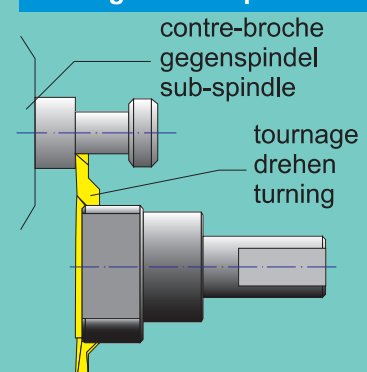


Type	Type de plaquette	ØA	B	C	L	F
775	630	10	20	30	40	14.5
775-20	630	20	100	-	110	14.5
776	615	10	20	30	40	18.5
776	715	10	20	30	40	23.5
776-16	615	16	80	-	90	18.5
776-16	715	16	80	-	90	23.5
776-19	615	19.05	100	-	110	18.5
776-19	715	19.05	100	-	110	23.5
776-20	615	20	100	-	110	18.5
776-20	715	20	100	-	110	23.5
776-25.4	615	25.4	100	-	110	18.5
776-25.4	715	25.4	100	-	110	23.5

Filetage en contre opération
Gewinde mit Gegenspindel
Srewcutting on sub-spindle

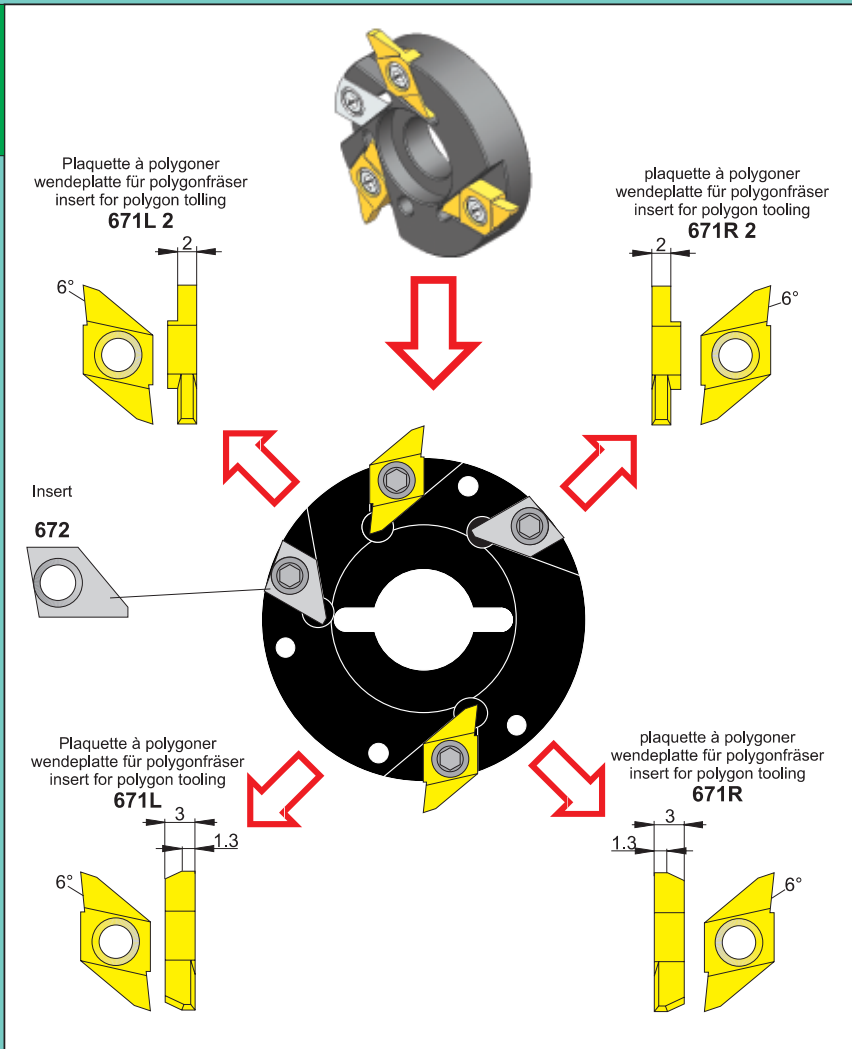


Tournage en contre opération
Drehen mit Gegenspindel
Turning on sub-spindle

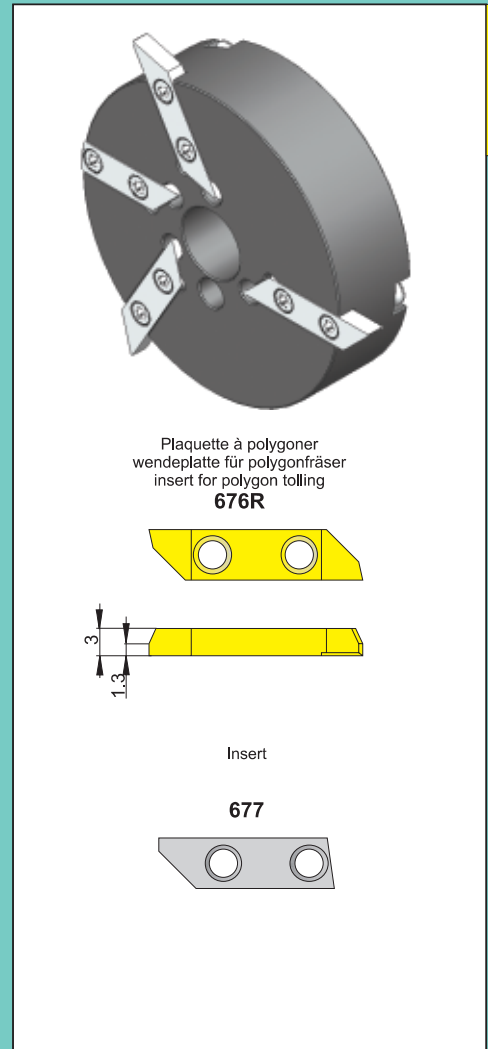


FRAISES A POLYGONER POLYGONFRÄSER POLYGON TOOLING

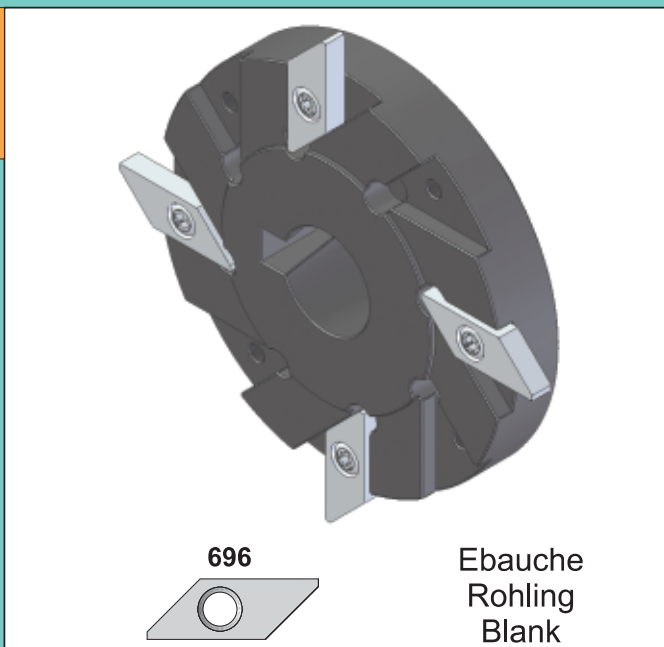
671



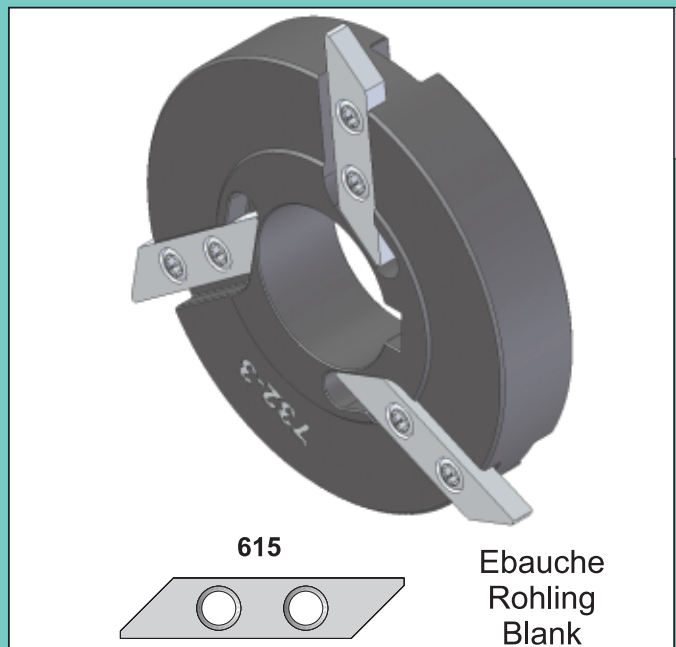
630



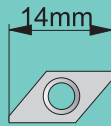
696



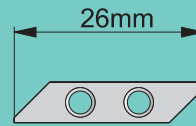
615



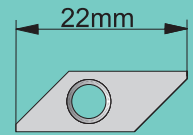
FRAISES A POLYGONER
POLYGONFRÄSER
POLYGON TOOLING



671 => 671L/R 671L2 / 671R2



630 => 676R



696

Type Typ Type	Usage Anwendung Application	Ø total [mm]	Ø fraise Ø Fräser Ø milling [mm]	Ø alésage Ø Bohrung Ø bore [mm]	Caractéristiques plaquettes Kennzeichnungen Plättchen Characteristics Inserts
669	Tornos TOP100 / ENC 75	50	42	13	671L / 671L2 / 671R / 671R2
673	Tornos ENC 167	50	42	13	671L / 671L2 / 671R / 671R2
674	Tornos AS 14 / SAS 16 DC	57	49	16	671R / 671R2
675	Tornos TOP 200	81	71	16	676R
675-1	Tornos TOP 200	79.5	71	16	671R / 671R2
685-3	Tornos AS 14 / INDEX	60	51	16	671R / 671R2
685-4	Tornos AS 14 / INDEX	60	51	16	671L / 671L2
690	Tornos ENC 164 / POLY 164-60	60	51.8	13	671L / 671L2
691	Tornos ENC 164 / POLY 164-90	69	60.5	13	671L / 671L2
692-3	Tornos MS-7	50	42	28	671L / 671L2
692-4	Tornos MS-7	50	42	28	671L / 671L2
693	Tornos SAS 16DC	72	63.5	16	671R / 671R2
694	Tornos ENC 164 / POLY 164-69P7	69	55	13	696 Ebauche / Rohling / Blank
698	Tornos DECO2000 7-10mm	40	33	10	671R / 671R2
699	Tornos DECO2000 7-10mm	40	33	10	671L / 671L2
700R	Tornos DECO2000 20-25mm	80	72	16	671R / 671R2
700L	Tornos DECO2000 20-25mm	80	72	16	671L / 671L2
702	Tornos MULTIDECO 26-6	86	78	*24.69	671L / 671L2 / 671R / 671R2
703	Tornos MULTIDECO 20-6 / 20-8	80	72	*24.69	671L / 671L2 / 671R / 671R2
717	Tornos ENC 167	40	33	13	671R / 671R2
719	Tornos DECO 13	80	71	16	676R
720	Tornos MULTIDECO 20-6 / 20-8	86	72	*24.69	696 Ebauche / Rohling / Blank
727	Tornos MULTIDECO 20-6 / 20-8	89 / 84	87 / 75	*24.69	671L / 671L2 / 671R / 671R2

* Alésage conique: 8° 16' 33"

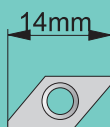
* Konus Bohrung: 8° 16' 33"

* Conical bore: 8° 16' 33"

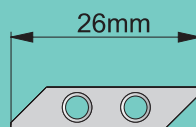
685-P7	INDEX P7	90	75.8	27	696 Ebauche / Rohling / Blank
706	INDEX MS25	70	62.1	16	671L / 671L2
707	INDEX ABC	90	75	27	615 Ebauche / Rohling / Blank
724	INDEX ABC	90	81	27	671R / 671R2
732-3	INDEX ABC	90	75	27	615 Ebauche / Rohling / Blank
732-4	INDEX ABC	90	75	27	615 Ebauche / Rohling / Blank
733	INDEX ER	76	67	18	671R / 671R2

705 60	CITIZEN M12	60	52.1	16	671R / 671R2
711	CITIZEN M32	80	71	16	671R / 671R2
713	CITIZEN M32	80	71	16	671L / 671L2
730	CITIZEN M32	80	71	5/8"	671L / 671L2

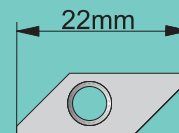
FRAISES A POLYGONER
POLYGONFRÄSER
POLYGON TOOLING



671 => 671L/R 671L2 / 671R2



630 => 676R



696

Type Typ Type	Usage Anwendung Application	Ø total [mm]	Ø fraise Ø Fräser Ø milling [mm]	Ø alésage Ø Bohrung Ø bore [mm]	Caractéristiques plaquettes Kennzeichnungen Plättchen Characteristics Inserts
684	Manurhin FLD KMX / POLY KMX	64	53.8	12	676R
684-1	Manurhin FLD KMX / POLY KMX1	64	71	12	671L / 671L2 / 671R / 671R2
684-2	Manurhin FLD KMX / POLY KMX80	80	71	16	671R / 671R2
684-3	Manurhin FLD KMX / POLY KMX80-2	80	71	16	671R / 671R2
684-4	Manurhin FLD KMX / POLY KMX80-42	80	71	12	671L / 671L2 / 671R / 671R2
701	Manurhin FLD KMX / KMX SWING 13 20	50	42	13	671L / 671L2 / 671R / 671R2
704 80	Manurhin FLD KMX / KMX XL-32 / XS-32	80	72	16	671L / 671L2
704 90	Manurhin FLD KMX / KMX XL-32 / XS-32	90	81.9	16	671L / 671L2
704 100	Manurhin FLD KMX / KMX XL-32 / XS-32	100	91.7	16	671L / 671L2
684-3	Manurhin FLD KMX / POLY KMX80-2	80	71	16	671R / 671R2
684-4	Manurhin FLD KMX / POLY KMX80-42	80	71	16	671L / 671L2 / 671R / 671R2
710	Manurhin FLD KMX / KMX 442	78	69	12	671L / 671L2 / 671R / 671R2
712	Manurhin FLD KMX / KMX 442	64	55	12	671R / 671R2
728	Manurhin FLD KMX / KMX 442	98	81	12	615 Ebauche / Rohling / Blank

708	STAR SV20	70	62.1	16	671R / 671R2
721	STAR SV32	70	61.5	16	671R / 671R2

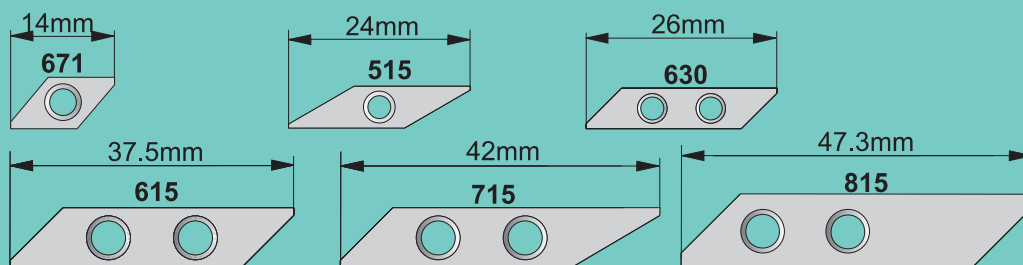
683	Traub / POLY TD 16/26	64	56	12	671L / 671L2
683-1	Traub / POLY TRAUB Ø90	90	81	27	671R / 671R2

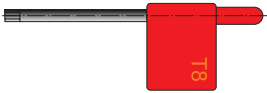




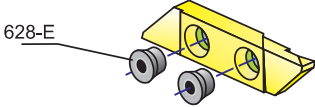


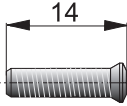
714	BAECHLER AR7/10	64	56	12	671L / 671L2
722	EMCO 365 MC	90	71	27	671L / 671L2
725	BIGLIA	64	56	12	615 Ebauche / Rohling / Blank
709		36	29	8	671L / 671L2
726		35	28.4	12	671R / 671R2
729		73	65	18	671L / 671L2 / 671R / 671R2

AUTRES FRAISES A POLYGONER SUR DEMANDE
ANDERE POLYGONFRÄSER AUF ANFRAGE
OTHERS POLYGON TOOLING ORDER

CITIZEN; GILDEMEISTER; STAR; TZUGAMI;.....

FOURNITURES ERSATZTEILE ITEMS



Forme Form Form	Usage Anwendung Application	Type Typ Type	Caractéristiques Kennzeichnungen Characteristics
	Porte-plaquette Klemmhalter Insert holders 507; 508; 510; 512; 514; 520; 608; 609 L/R; 775 Fraise à polygone Polygonfräser Polygon tooling 669; 673; 674; 675-1; 683; 684-1; 684-2; 684-3; 684-4; 685-3; 685-4; 690; 691; 692-3; 692-4; 693; 700R; 700L; 701; 702; 703	627	T8
	Porte-plaquette Klemmhalter Insert holders 507; 508; 510; 512; 514; 520; 608; 609 L/R Fraise à polygone Polygonfräser Polygon tooling 684; 775	627-V	M2.5x7 / T8
	Fraise à polygone Polygonfräser Polygon tooling 669; 673; 674; 675-1; 683; 684; 684-1; 684-2; 684-3; 684-4; 685-3; 685-4; 690; 691; 692-3; 692-4; 693; 700R; 700L; 701; 702; 703	627-P	M3x7 / T8
	Pour plaquette 671-5 Für Platte 671-5 For Insert 671-5 E=5mm	627-PP	M3x9 / T8
	Porte-plaquette Klemmhalter Insert holders 610; 611; 612; 613; 614; 622; 623; 781R; 782R; 800; 801; 802 L/R; 776 Fraise à polygone Polygonfräser Polygon tooling 694; 685-P7	628	T15
	Pour plaquette type 615 Für Platte Typ 615 For Insert Type 615	628-E	M3
	Porte-plaquette Klemmhalter Insert holders 610-F; 611-F; 612-F; 613-F; 614-F; 622-F; 623-F L/R	628-F	M3x8
	Porte-plaquette Klemmhalter Insert holders 610; 611; 612; 613; 614; 622; 623; 776; 781R; 782R; 800; 801; 802 L/R Fraise à polygone Polygonfräser Polygon tooling 694; 685-P7	628-V	M3.5x9 / T15
	Pour plaquette 615-6 Für Platte 615-6 For Insert 615-6 E=6mm	628-VV	M3.5x14 / T15

PARAMÈTRES DE COUPE INDICATIFS POUR PROGRAMME DECO EMPFOHLENE SCHNITTWERTE FÜR DECO PROGRAMM STANDARD MACHINING DATA FOR PROGRAM DECO

			Tournage <i>Drehen</i> Turning						Tronçonnage <i>Abstechen</i> Cut off	
			ébauche <i>schruppen</i> roughing		semi finition <i>vorbearbeiten</i> semi finished		finition <i>schlichten</i> finishing			
			Prof. de passe <5.0 <i>Schnitttiefe</i> Depth of cut		Prof. de passe <2.0 <i>Schnitttiefe</i> Depth of cut		Prof. de passe <1.0 <i>Schnitttiefe</i> Depth of cut		E=0.50-2.0 >4.0	
			VC:m/min	F:mm/t	VC:m/min	F:mm/t	VC:m/min	F:mm/t	VC:m/min	F: mm/t
Matériaux Werkstoffe Materials	HB	Revêt.								
Acier décollet. <i>Automatenstahl</i> Free-cutting steel	~500	TIN	70-150	0,08-0,20	70-150	0.10-0.20	80-180	0.05-0.15	70-120	0.01-0.05 >0.10
	~500	TICN	100-170	0.10-0.25	100-170	0.08-0.15	100-200	0.07-0.15	70-130	0.01-0.05 >0.10
	~500	Futura	100-180	0.10-0.30	120-200	0.08-0.15	120-220	0.10-0.15	70-140	0.01-0.05 >0.10
* Acier non-allié										
Acier N/mm2	~750	TIN	50-100	0.05-0.25	50-100	0.03-0.20	50-100	.005-0.10	60-100	0.01-0.05 >0.10
* Acier faibl.allié	~750	TICN	50-100	0.05-0.25	60-110	0.03-0.20	60-110	.005-0.10	60-100	0.01-0.05 >0.10
	~750	Futura	50-100	0.05-0.25	70-120	0.03-0.20	70-120	.005-0.10	60-100	0.01-0.05 >0.10
Acier N/mm2	~1000	TIN	40-80	0.05-0.15	50-100	0.03-0.10	50-100	.005-0.07	40-80	0.01-0.03 >0.06
* Acier fort.allié	~1000	TICN	40-80	0.05-0.15	50-100	0.03-0.10	50-100	.005-0.07	40-80	0.01-0.03 >0.06
		Futura	40-80	0.05-0.15	50-100	0.03-0.10	50-100	.005-0.07	40-80	0.01-0.03 >0.06
Acier INOX <i>Rostfreier Stahl</i> Stainless steel	~750	TIN	50-100	0.05-0.15	50-120	0.03-0.10	50-120	.005-0.06	40-80	0.01-0.04 >0.08
	~750	TICN	60-110	0.05-0.15	60-120	0.03-0.10	60-120	.005-0.07	40-80	0.01-0.04 >0.08
	~750	Futura	60-120	0.05-0.15	60-130	0.03-0.10	60-130	.005-0.07	40-80	0.01-0.04 >0.08
Titane <i>Titan</i> Titanium	~750	Futura	30-70	0.05-0.15	30-70	0.03-0.08	30-80	.005-0.07	40-80	0.01-0.03 >0.06
Laiton * Cuivre Bronze	~500	TIN	80-400	0.05-0.40	80-450	0.05-0.45	80-500	0.02-0.25	40-80	0.01-0.10 >0.20
	~500	TICN	100-400	0.05-0.40	100-450	0.05-0.45	100-500	0.02-0.25	40-80	0.01-0.10 >0.20
	~500	Futura	100-400	0.05-0.40	100-450	0.05-0.45	100-500	0.02-0.25	40-80	0.01-0.10 >0.20
Aluminium Alu Si <12%		TIN	150-1000	0.01-0.25	150-1200	0.01-0.25	150-1200	0.01-0.25	150-350	0.01-0.10 >0.20
		TICN	150-1000	0.01-0.25	150-1200	0.01-0.25	150-1200	0.01-0.25	150-350	0.01-0.10 >0.20
		Futura	150-1000	0.01-0.25	150-1200	0.01-0.25	150-1200	0.01-0.25	150-350	0.01-0.10 >0.20
Aluminium Alu Si >12%		TIN	100-800	.005-0.20	120-1000	.005-0.20	120-1000	.005-0.20	120-300	0.01-0.10 >0.20
		TICN	100-800	.005-0.20	120-1000	.005-0.20	120-1000	.005-0.20	120-300	0.01-0.10 >0.20
		Futura	100-800	.005-0.20	120-1000	.005-0.20	120-1000	.005-0.20	120-300	0.01-0.10 >0.20
OR - Argent <i>Gold - Silber</i> Gold - silver		TIN	50-100	0.02-0.12	50-120	0.02-0.10	50-120	0.02-0.08	40-100	0.01-0.03 >0.07
		TICN	50-110	0.02-0.12	50-130	0.02-0.10	50-130	0.02-0.08	50-110	0.01-0.03 >0.07
		Futura	50-120	0.02-0.12	50-140	0.02-0.10	50-140	0.02-0.08	50-120	0.01-0.03 >0.07

Valeurs indicatives: à interpréter selon caractéristiques de la machine, serrages de la matière et porte-outils, fluide d'arrosage, etc...

Richtwerte: Nach Eigenschaften der Maschine zu interpretieren; Festklemmen von Material und Werkzeughalter; Kühlflüssigkeit; usw...

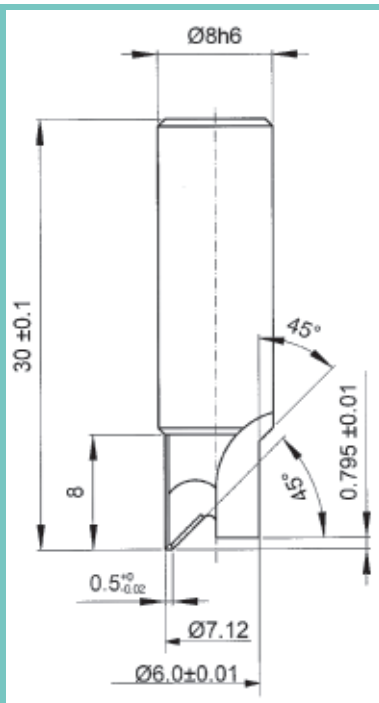
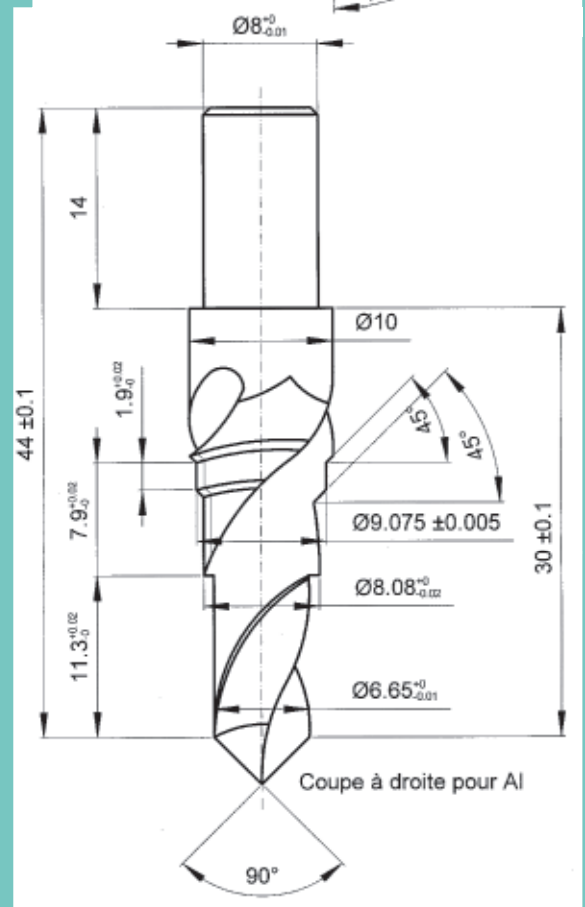
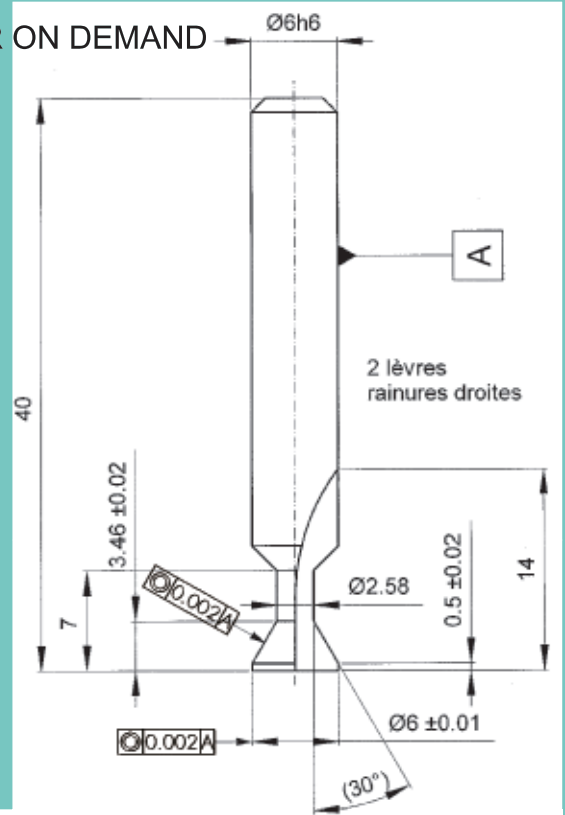
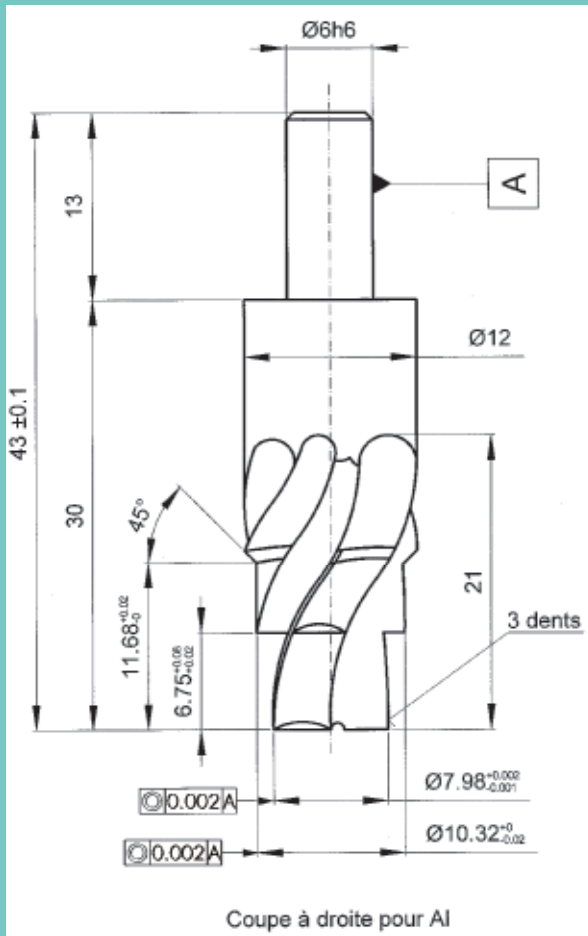
Approximate values: Depending on the machine characteristics; Material and tool clamping device; Cooling liquid; etc...

*Acier / Stahl / Steel Cuivre / Kupfer / Copper Laiton / Messing / brass

FABRICANT D'OUTILS SPECIAUX SUR DEMANDE

HERSTELLER VON SPEZIAL WERKZEUG AUF ANFRAGE

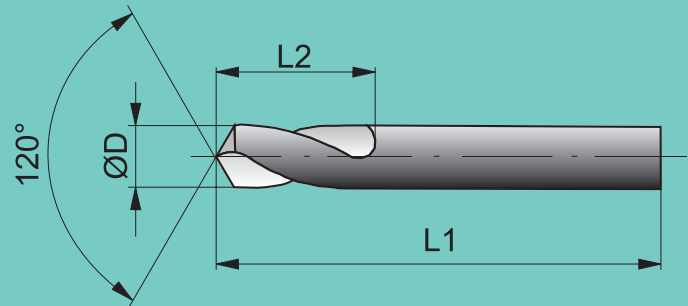
SPECIAL TOOLS MANUFACTURER ON DEMAND



MECHES A CENTRER EN METAL DUR POUR NC
VOLLHARTMETALL-NC-ANBOHRER
SOLID CARBIDE NC-CENTER DRILL

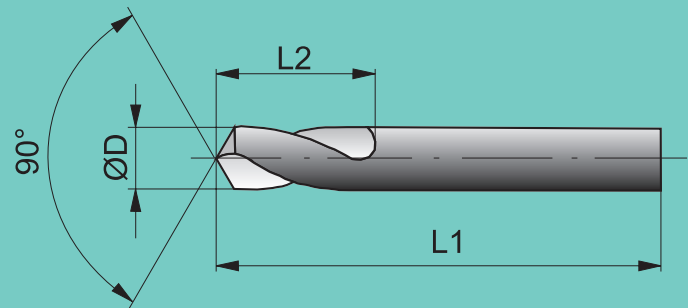
Type **220**

Coupe à droite
 Rechts schneidend
 Right cutting



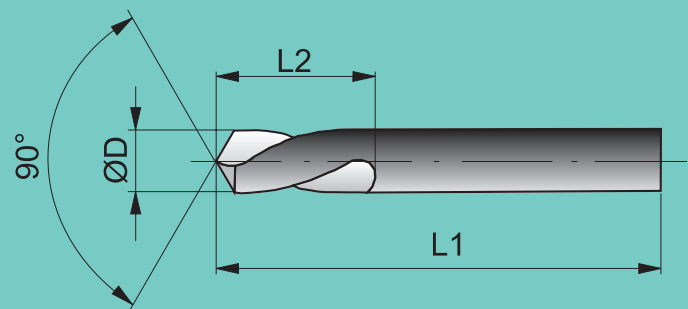
Type **221**

Coupe à droite
 Rechts schneidend
 Right cutting



Type **223**

Coupe à gauche
 Links schneidend
 Left cutting



D [mm]	L1 [mm]	L2 [mm]
2	38	8
3	45	10
4	50	12
5	55	12
6	60	15
8	70	20
10	75	20
12	80	25

FRAISES À RAINURER EN MÉTAL DUR K10
SCHAFTFRÄSER AUS VOLLHARTMETALL K10
SLOTING END MILLS OF CARBIDE K10

Type 300

Coupe au centre, 2 lèvres
 Schnitt im Zentrum, 2-Lippig
 Center-cutting, 2 flutes



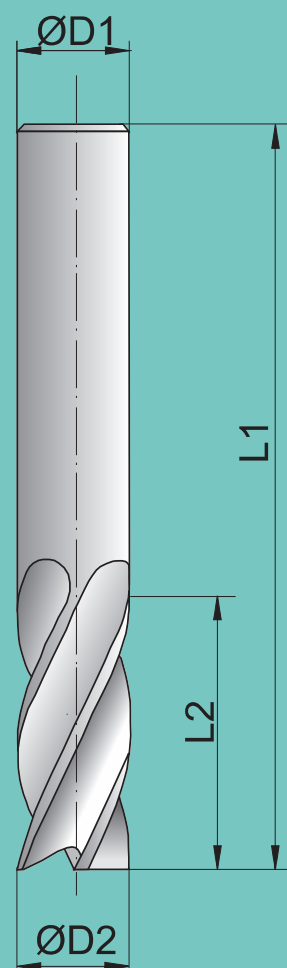
Type 301

Coupe au centre, 3 lèvres
 Schnitt im Zentrum, 3-Lippig
 Center-cutting, 3 flutes



Type 302

4 lèvres
 4-Lippig
 4 flutes



ØD2 [mm]	L1 [mm]	L2 [mm]	ØD1 [mm]
2.0	38	7	2.0
2.5	38	8	2.5
3.0	38	8	3.0
4.0	43	11	4.0
5.0	47	13	5.0
6.0	57	13	6.0
8.0	63	19	8.0
10.0	72	22	10.0
12.0	83	26	12.0
14.0	83	26	14.0
16.0	89	32	16.0
18.0	92	32	18.0
20.0	101	38	20.0

FRAISES À RAINURER EN MÉTAL DUR K10
SCHAFTFRÄSER AUS VOLLHARTMETALL K10
SLOTING END MILLS OF CARBIDE K10

AVEC PLAT WELDON
MIT SPANNFLÄCHE
WITH CLAMPING

Type 310

Coupe au centre, 2 lèvres
 Schnitt im Zentrum, 2-Lippig
 Center-cutting, 2 flutes

ØD2 [mm]	L1 [mm]	L2 [mm]	ØD1 [mm]
1.5	47	3.0	6.0
2.0	48	4.0	6.0
2.5	49	5.0	6.0
3.0	49	5.0	6.0
4.0	51	7.0	6.0
5.0	52	8.0	6.0
6.0	52	8.0	6.0
8.0	55	11.0	8.0
10.0	63	13.0	10.0
12.0	73	16.0	12.0

Type 311

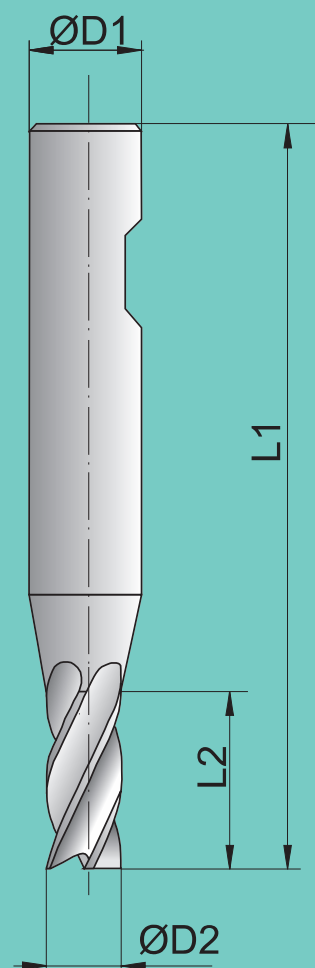
Coupe au centre, 3 lèvres
 Schnitt im Zentrum, 3-Lippig
 Center-cutting, 3 flutes

ØD2 [mm]	L1 [mm]	L2 [mm]	ØD1 [mm]
2.0	51	7.0	6.0
2.5	52	8.0	6.0
3.0	52	8.0	6.0
4.0	55	11.0	6.0
5.0	57	13.0	6.0
6.0	57	13.0	6.0
8.0	63	19.0	8.0
10.0	72	22.0	10.0
12.0	83	26.0	12.0

Type 312

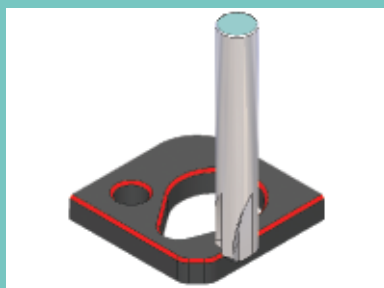
4 lèvres
 4-Lippig
 4 flutes

ØD2 [mm]	L1 [mm]	L2 [mm]	ØD1 [mm]
3.0	52	8.0	6.0
4.0	55	11.0	6.0
5.0	57	13.0	6.0
6.0	57	13.0	6.0
8.0	63	19.0	8.0
10.0	72	22.0	10.0
12.0	83	26.0	12.0

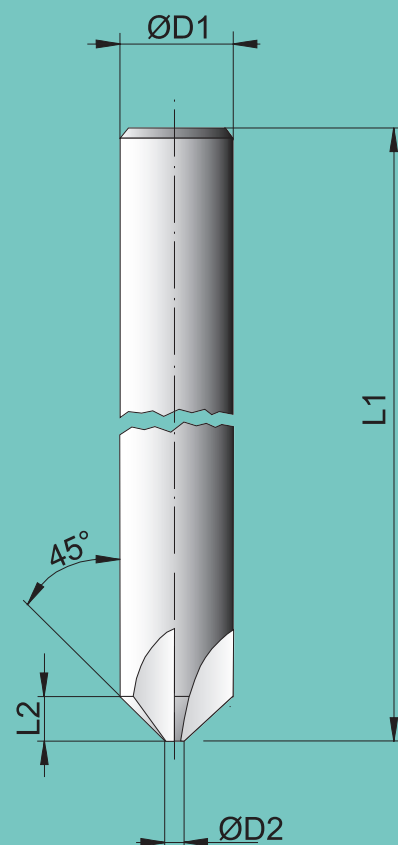


FRAISES A ANGLER EN MÉTAL DUR
VOLLHARTMETALL FASEN-SCHAFTFRÄSER
SOLID CARBIDE COUNTERSINK

Type **327**

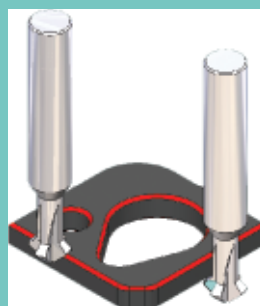


ØD1 [mm]	L1 [mm]	L2 [mm]	ØD2 [mm]	Z
4	50	1.5	1	4
6	60	2.3	1.5	4
8	70	3	2	4
10	75	3.8	2.5	4
12	80	4.5	3	4
16	90	7	3.5	6
20	100	8	4	6

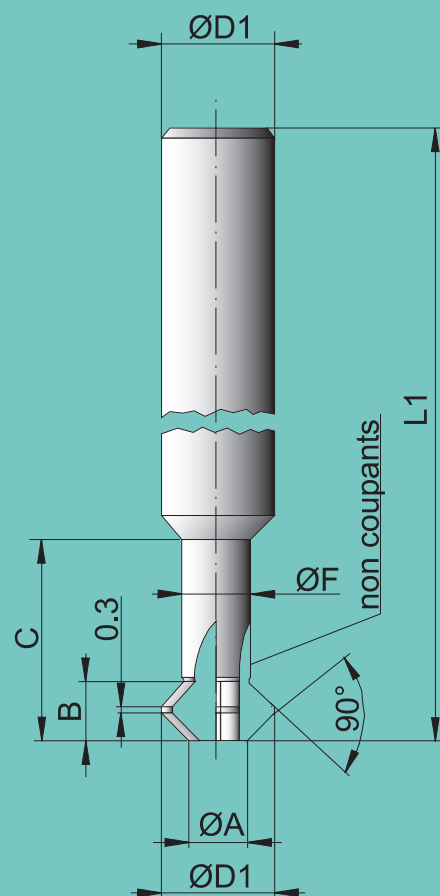


FRAISES A ANGLER ISOCELES EN MÉTAL DUR
VOLLHARTMETALL PRISMEN-SCHAFTFRÄSER
SOLID CARBIDE DOUBLE ANGLE MILLING

Type **328**



ØD1 [mm]	L1 [mm]	B [mm]	C [mm]	ØA [mm]	ØF [mm]
6	60	2.5	12	3.5	4
8	70	4	15	4	5
10	75	5	18	5	6
12	80	6	21	6	7



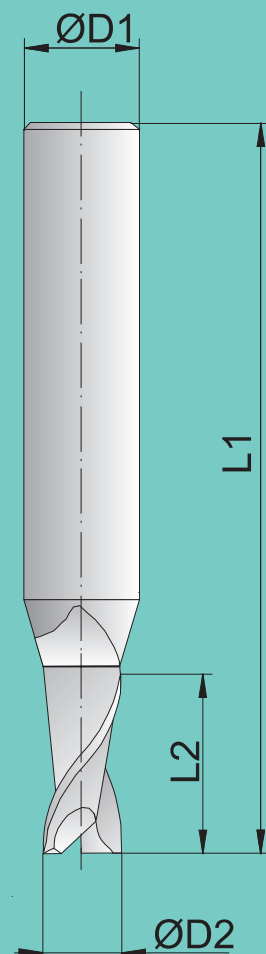
MICRO-FRAISES 2 DENTS
MIKRO PRÄZISIONSFRÄSER 2 ZÄHNE
MINIATURE END-MILLS 2 TEETH



PRECISION ±0.01

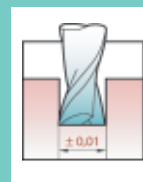
Type 362

ØD2 [mm]	L1 [mm]	L2 [mm]	ØD1 [mm]
0.3	39	1.0	3
0.4	39	1.5	3
0.5	39	1.5	3
0.6	39	1.5	3
0.7	39	2.0	3
0.8	39	2.0	3
0.9	39	2.5	3
1.0	39	3.0	3
1.1	39	3.0	3
1.2	39	4.0	3
1.3	39	4.0	3
1.4	39	4.0	3
1.5	39	4.0	3
1.6	39	5.0	3
1.7	39	5.0	3
1.8	39	5.0	3
1.9	39	5.0	3
2.0	39	5.0	3
2.1	39	6.0	3
2.2	39	6.0	3
2.3	39	6.0	3
2.4	39	6.0	3
2.5	39	7.0	3
2.6	39	7.0	3
2.7	39	7.0	3
2.8	39	7.0	3
2.9	39	7.0	3
3.0	44	10.0	4



RAINURAGE - GRAVURE

SLOTING - ENGRAVING



PERCAGE A FOND PLAT

FLAT BOTTOM BORING

Exemple de commande : 362-08 pour Ø 0.8mm 2 dents
 Bestellung Beispiel : 362-08 für Ø 0.8mm 2 Zähne
 Order sample : 362-08 for Ø 0.8mm 2 teeth

Revêtement sur demande
Beschichtung auf Anfrage
Coating on demande

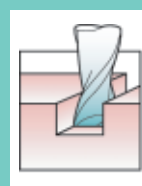
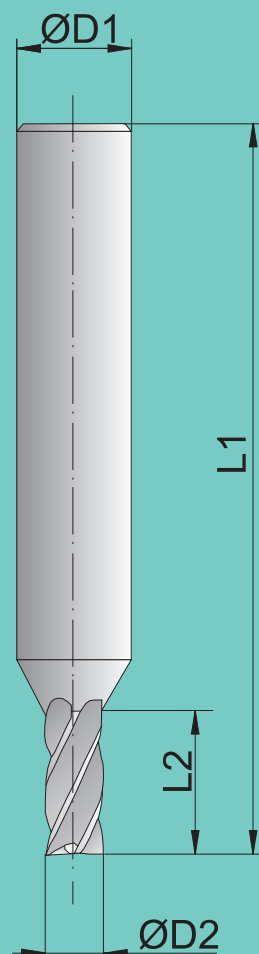
MICRO-FRAISES 3 DENTS
MIKRONPRÄZISIONSFRÄSER 3 ZÄHNE
MINIATURE END-MILLS 3 TEETH



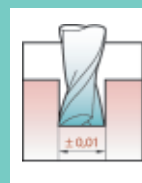
PRECISION ±0.01

Type 363

ØD2 [mm]	L1 [mm]	L2 [mm]	ØD1 [mm]
0.5	39	1.5	3
0.6	39	1.5	3
0.7	39	2.0	3
0.8	39	2.0	3
0.9	39	2.5	3
1.0	39	3.0	3
1.1	39	3.0	3
1.2	39	4.0	3
1.3	39	4.0	3
1.4	39	4.0	3
1.5	39	4.0	3
1.6	39	5.0	3
1.7	39	5.0	3
1.8	39	5.0	3
1.9	39	5.0	3
2.0	39	5.0	3
2.1	39	6.0	3
2.2	39	6.0	3
2.3	39	6.0	3
2.4	39	6.0	3
2.5	39	7.0	3
2.6	39	7.0	3
2.7	39	7.0	3
2.8	39	7.0	3
2.9	39	7.0	3
3.0	44	10.0	4



RAINURAGE - GRAVURE
 SLOTTING - ENGRAVING



PERÇAGE A FOND PLAT
 FLAT BOTTOM BORING

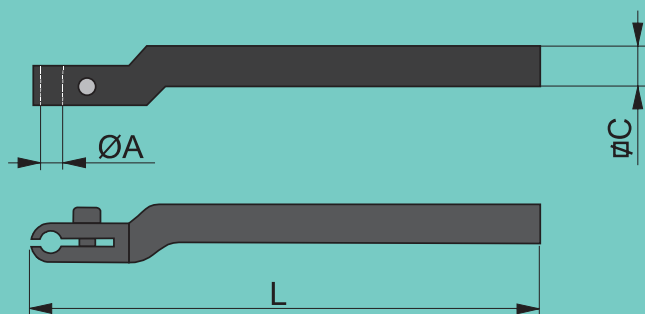
Exemple de commande : 363-08 pour Ø 0.8mm 3 dents
 Bestellung Beispiel : 363-08 für Ø 0.8mm 3 Zähne
 Order sample : 363-08 for Ø 0.8mm 3 teeth

Revêtement sur demande
Beschichtung auf Anfrage
Coating on demande

PORTE-CENTREUR STAHLHALTER CENTERING TOOL-HOLDER

Type 400

Gauche
Links
Left



C [mm]	A [mm]	L [mm]
6 x 6	2	132
6 x 6	3	132
7 x 7	2	140
7 x 7	3	140
8 x 8	2	140
8 x 8	3	140
10 x 15	2	150
10 x 15	3	150
10 x 15	4	150

Type 401

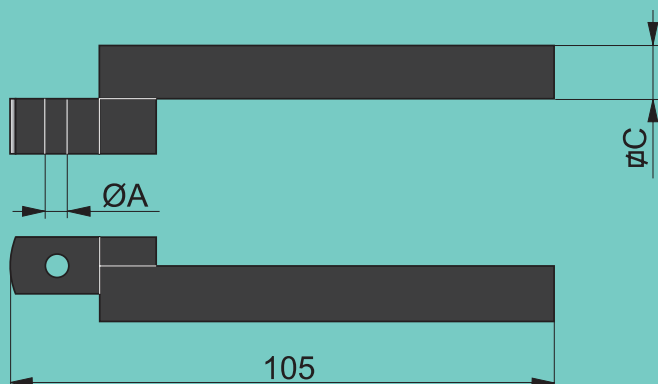
Gauche
Links
Left



C [mm]	A [mm]	L [mm]
7 x 7	3	135
7 x 7	4	135
8 x 8	3	146
8 x 8	4	146
8 x 8	5	146
10 x 10	4	150
10 x 10	5	150
10 x 10	6	150
10 x 10	7	150
12 x 12	4	150
12 x 12	6	150
12 x 12	8	150
14 x 14	4	160
14 x 14	6	160
14 x 14	8	160

Type 413

Droite
Rechts
Right



C [mm]	A [mm]
10 x 10	4
10 x 10	5
10 x 10	6
12 x 12	4
12 x 12	5
12 x 12	6
16 x 16	5
16 x 16	6
16 x 16	8

PRECITOOOL

PRECITOOOL SA FABRICANT ET UTILISATEUR DE TOUTES SES MEULES DEPUIS PLUS DE 15 ANS, MET SON EXPERIENCE A VOTRE SERVICE.

PRECITOOOL SA HERSTELLER UND VERBRAUCHER SEINER EIGENFABRIKATION VON SCHEIBEN SEIT MEHR ALS 15 JAHREN, STELLT SEINE ERFAHRUNG ZU IHREN DIENSTEN.

PRECITOOOL SA MANUFACTURER AND USER OF ALL THEIR GRINDING WHEELS SINCE MORE THAN 15 YEARS, PUT HIS EXPERIENCE AT YOUR SERVICE.

MEULES DIAMANT / BORAZON (CBN)
DIAMANTSCHLEIFSCHEIBEN / BORNITRIDSCHLEIFSCHEIBEN (CBN)
DIAMOND GRINDING WHEELS / BORON NITRIDE GRINDING WHEELS (CBN)



Catalogue détaillé sur demande / Katalog mit Einzelheiten auf Anfrage / Detailed catalog on demand

PRECITOOOL SA
56, rue de Soleure
CH-2740 MOUTIER

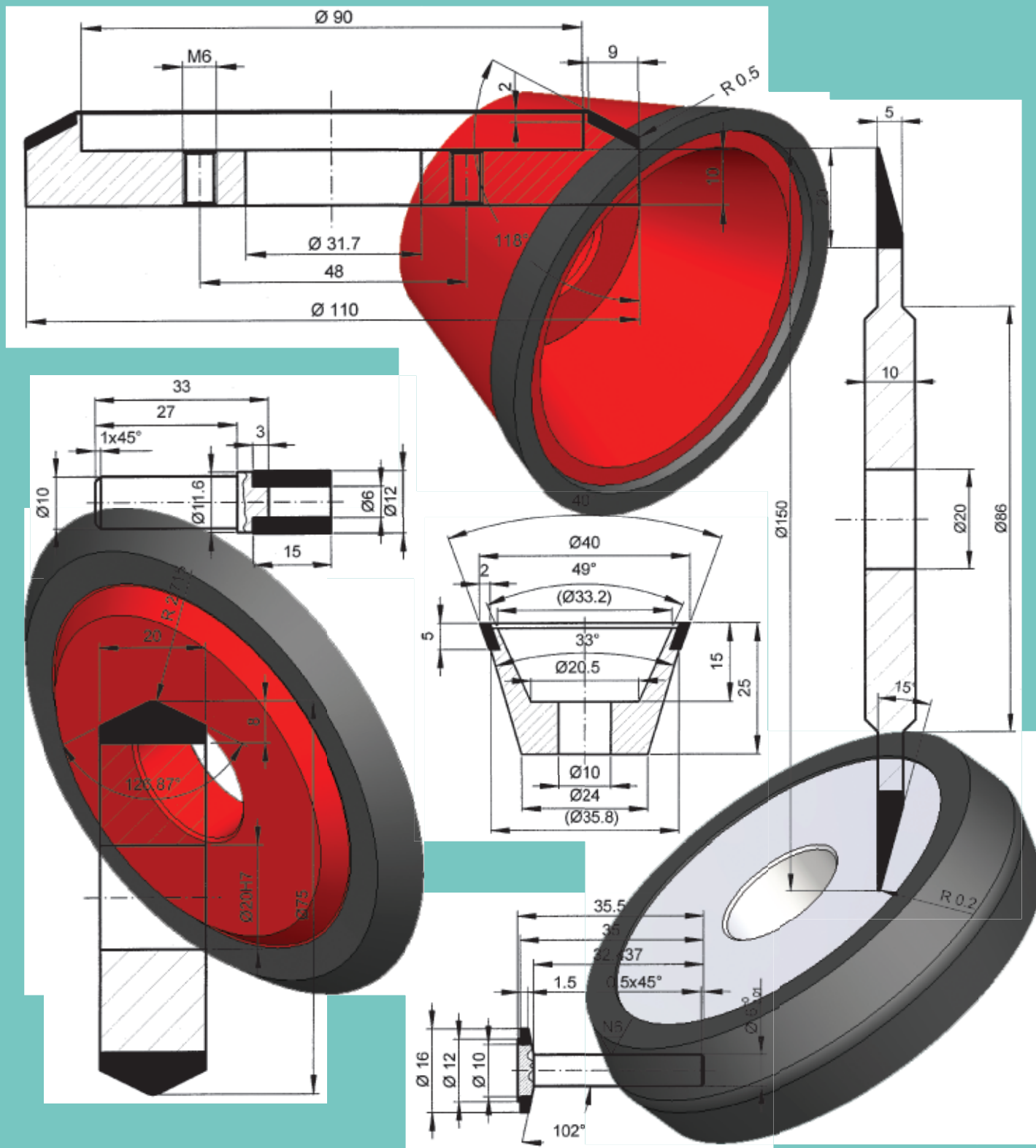
E-mail: info@precitool.ch
 Adresse: www.precitool.ch

++ 41 32 494 64 74
 Fax ++ 41 32 494 64 77

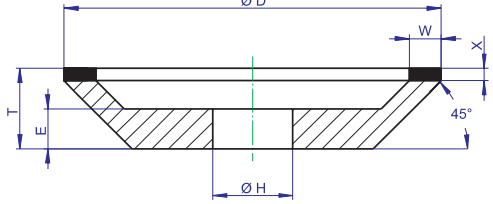
FABRICANT DE MEULES DIAMANT ET BORAZON SUR DEMANDE

HERSTELLER VON DIAMANT UND BORNITRIDSCHLEIFSCHEIBEN AUF ANFRAGE

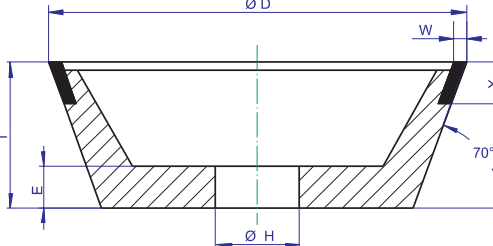
DIAMOND AND BORON NITRIDE GRINDING WHEELS MANUFACTURER ON DEMAND



MEULES DIAMANTEES / MEULES AU NITRURE DE BORE (CBN)
DIAMANTSCHLEIFSCHEIBEN / BORNITRIDSCHLEIFSCHEIBEN (CBN)
DIAMOND GRINDING WHEELS / BORON NITRIDE GRINDING WHEELS (CBN)

Forme Form Form	Croquis Skizze Style	Usage Anwendung Application
12A2 45°		<p>Pour l'affûtage d'outils de coupe multiple avec plaquettes en métal dur.</p> <p>Zum Schleifen von hartmetallbestückten Schneid-Werkzeugen.</p> <p>For the grinding of cutting tools with brazed tips.</p>

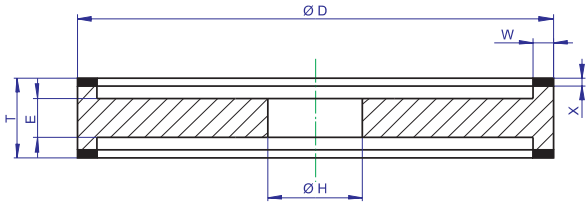
D × W × X [mm]	Grain Körnung Gritt	Conc. Konz. Conc.	Liant Bindung Bond	H	T	E
75 × 3 × 4	D10 D15	C75	E505KH	20	25	10
75 × 3 × 4	D20 D25	C75	E505E	20	25	10
75 × 3 × 4	D46 D54 D64 D76 D91 D126	C75	E545P	20	25	10
100 × 3 × 4	D20	C75	E505E	20	25	10
100 × 3 × 4	D46 D107	C75	E545P	20	25	10

Forme Form Form	Croquis Skizze Style	Usage Anwendung Application
11V9		<p>Pour l'affûtage d'outils avec plaquettes en métal dur permettant aussi le détaillage du corps acier.</p> <p>Zum Schleifen von hartmetallbestückten Schneid-Werkzeugen, auch mit bis 50% Anteil an Schaft-Material.</p> <p>For the grinding of cutting tools with brazed tips allowing for grinding of the steels shanks.</p>

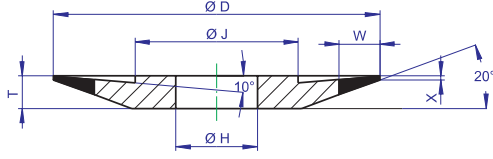
D × W × X [mm]	Grain Körnung Gritt	Conc. Konz. Conc.	Liant Bindung Bond	H	T	E
75 × 2 × 10	D15 D64 D126	C75	E503S	20	30	10
100 × 2 × 10	D64 D126	C75	E503S	20	35	10
100 × 3 × 10	D107 D126	C75	E503S	20	35	10
125 × 2 × 10	D20	C75	E503S	20	40	10
125 × 3 × 10	D64 D91 D126 D151	C75	E503S	20	40	10
150 × 2 × 10	D64 D91 D126	C75	E503S	20	50	10
150 × 3 × 10	D64 D91 D126	C75	E503S	20	50	10

Disponible en Borazon Verfügbar in Borazon Available funds to Borazon

MEULES DIAMANTEES / MEULES AU NITRURE DE BORE (CBN)
DIAMANTSCHLEIFSCHEIBEN / BORNITRIDSCHLEIFSCHEIBEN (CBN)
DIAMOND GRINDING WHEELS / BORON NITRIDE GRINDING WHEELS (CBN)

Forme Form Form	Croquis Skizze Style	Usage Anwendung Application
9A3		<p>Pour l'affûtage de burins de tournage et de décolletage avec plaquettes en métal dur. Zum Schleifen von präzisen hartmetallbestückten Drehmeisseln und Automatenstählen. For the grinding of turning and part-off tools for automatics (carbide tipped).</p>

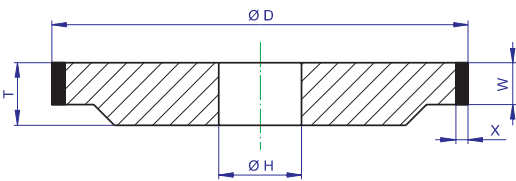
D × W × X [mm]	Grain Körnung Gritt	Conc. Konz. Conc.	Liant Bindung Bond	H	T	E
125 × 6 × 2	D20 D30	C75	E505E	12	22	10
125 × 6 × 2	D91 D126	C75	E505P	12	22	10
150 × 6 × 2	D20 D30	C75	E545E	16	25/35	14
150 × 6 × 2	D91 D126	C75	E505P	16	25/35	14
175 × 4 × 2	D20 D30	C75	E545E	20	25/35	14
175 × 4 × 2	D91 D126	C75	E503P	20	25/35	14
175 × 6 × 2	D15 D20 D30	C75	E503E	20	25/35	14
175 × 6 × 2	D91 D126	C75	E503P	20	25/35	14

Forme Form Form	Croquis Skizze Style	Usage Anwendung Application
4BT9		<p>Taillage du métal dur. Trennen / Formschleifen. For the grinding of solid carbide tools.</p>

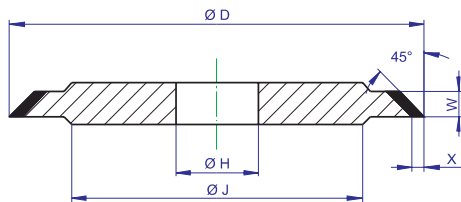
D × W × X [mm]	Grain Körnung Gritt	Conc. Konz. Conc.	Liant Bindung Bond	H	T	J
75 × 6 × 0.3	D15 D91	C75	E510Q	20	8	40
75 × 6 × 0.3	D20	C75	E505E	20	8	40
75 × 6 × 0.3	D30 D46 D54	C75	E503P	20	8	40
75 × 6 × 0.5	D15	C75	E505E	20	8	40
75 × 6 × 0.5	D20	C75	E510Q	20	8	40
75 × 6 × 0.5	D46	C75	E503P	20	8	40
75 × 6 × 0.5	D91 D126	C75	E503S	20	8	40

Disponibile en Borazon Verfügbar in Borazon Available funds to Borazon

MEULES DIAMANTEES / MEULES AU NITRURE DE BORE (CBN)
DIAMANTSCHLEIFSCHEIBEN / BORNITRIDSCHLEIFSCHEIBEN (CBN)
DIAMOND GRINDING WHEELS / BORON NITRIDE GRINDING WHEELS (CBN)

Forme Form Form	Croquis Skizze Style	Usage Anwendung Application
1A1		<p>Pour rectification plane et cylindrique d'outils en métal dur.</p> <p>Zum Flach- und Rundschleifen von hartmetallbestückten Werkzeugen.</p> <p>For grinding flat and cylindrical carbide tools.</p>

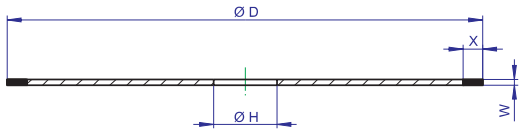
D × W × X [mm]	Grain Körnung Gritt	Conc. Konz. Conc.	Liant Bindung Bond	H	T
75 × 4 × 3	D20 D46 D107	C75	E505E E545P E545P	20	8
100 × 4 × 3	D25 D46 D107	C75	E505E E545P E503P	20	8
125 × 3 × 6	D46	C75	E503P	20	10
125 × 5 × 6	D46	C75	E545P	20	10
125 × 6 × 6	D46	C75	E545P	20	10
150 × 5 × 6	D46	C75	E545P	20	10
150 × 6 × 6	D46	C75	E545P	20	10
150 × 8 × 6	D46	C75	E545P	20	10
200 × 8 × 3	D126	C75	E545P	50	10
250 × 10 × 3	D126	C75	E545P	70	12
300 × 10 × 3	D20 D46 D126	C75	E545P E545P E545P	127	20
300 × 20 × 3	D91 D126	C75	E545P E545P E545P	127	20

Forme Form Form	Croquis Skizze Style	Usage Anwendung Application
1V1 45°		<p>Rectification du métal dur en passe profonde sur machine CNC.</p> <p>Zum Schleifen von Hartmetallen für tiefe Operationen auf CNC-Maschinen.</p> <p>For grinding of solid carbide with deep cuts on CNC machines.</p>

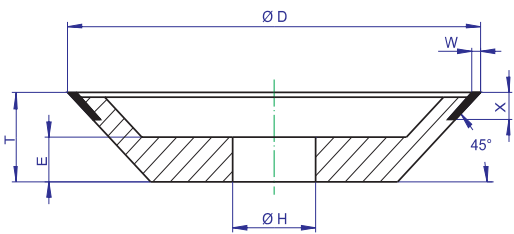
D × W × X [mm]	Grain Körnung Gritt	Conc. Konz. Conc.	Liant Bindung Bond	H	T	J
75 × 4 × 3	D46 D64 D91 D126	C75	E503S	20	10	50
75 × 6 × 5	D46 D64 D91 D126	C75	E503S	20	10	50
100 × 6 × 8	D46 D64 D91 D126	C75	E503S	20	10	70

Disponible en Borazon Verfügbar in Borazon Available funds to Borazon

MEULES DIAMANTEES / MEULES AU NITRURE DE BORE (CBN)
DIAMANTSCHLEIFSCHEIBEN / BORNITRIDSCHLEIFSCHEIBEN (CBN)
DIAMOND GRINDING WHEELS / BORON NITRIDE GRINDING WHEELS (CBN)

Forme Form Form	Croquis Skizze Style	Usage Anwendung Application
1A1R		Tronçonnage de barreaux en métal dur, HSS ou acier trempé. Trennen von Hartmetallstäben, HSS oder gehärtetem Stahl. Slitting discs for solid carbide, speed steel or steel..

D × W × X [mm]	Grain Körnung Gritt	Conc. Konz. Conc.	Liant Bindung Bond	H
40 × 1 × 20	D76	C150	E510P	6 / 10
50 × 1 × 20	D76	C150	E510P	10
75 × 0.6 × 5	D126	C150	E510P	10 / 20
75 × 0.7 × 5	D126	C150	E510P	10 / 20
75 × 0.8 × 5	D126	C150	E510P	10 / 20
75 × 1 × 5	D126	C150	E510P	10 / 20
80 × 0.8 × 5	D126	C150	E510P	10 / 20
80 × 1 × 5	D126	C150	E510P	10 / 20
100 × 1 × 5	D126	C150	E510P	10 / 20

Forme Form Form	Croquis Skizze Style	Usage Anwendung Application
12V9		Pour l'affûtage d'outils avec plaquettes en métal dur permettant aussi le détaillage du corps acier. Zum Schleifen von hartmetallbestückten Schneid-Werkzeugen, auch mit bis 50% Anteil an Schaft-Material. For the grinding of cutting tools with brazed tips allowing for grinding of the steels shanks.

D × W × X [mm]	Grain Körnung Gritt	Conc. Konz. Conc.	Liant Bindung Bond	H	T	J
75 × 2 × 6	D20	C50	E505E	20	20	10
75 × 2 × 6	D107	C75	E503S	20	20	10
100 × 2 × 6	D20	C50	E505E	20	20	10
100 × 2 × 6	D107	C75	E503S	20	20	10

Disponibile en Borazon Verfügbar in Borazon Available funds to Borazon

PRECITOOOL



Fabricant d'outillage carbure depuis 1969
Vollhartmetallwerkzeug - Hersteller seit 1969
Manufacturer carbide cutting tools since 1969

SWISS MADE⁺



PRECITOOOL-Habegger S.A.R.L.
480, Avenue des Lacs
F-74950 SCIONZIER
FRANCE

PRECITOOOL SA
56, Rue de Soleure
CH-2740 MOUTIER
SWITZERLAND

Tél. ++33 450 89 60 92
Fax ++33 450 89 60 78

Tél. ++41 32 494 64 74
Fax ++41 32 494 64 77
E-mail: info@precitool.ch
www.precitool.ch

