

VAMATEC

THE PLACE TO BE FOR THE METAL INDUSTRY



MODULAIRE VERSPANING

CATALOGOOG 1.4

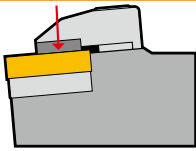
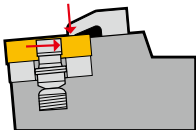
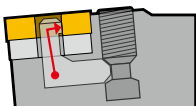
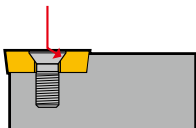
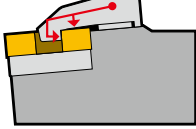
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UITWENDIGE BEITELHOUDERS



1	2	3	4	5	6	7	8	9	10
P	C	L	N	R	25	25	M	12	(C)
Clamping System	Insert Shape (1st Letter of Insert)	Tool Style	Insert Clearance (2nd Letter of Insert)	Tool Hand	Shank Height (H)	Shank Width (B)	Length (LF)	Insert Size	(Optional Clamp)

1 - Clamping System














Symbol	System
C	 <p>Top Clamp (No Clamping Hole Insert)</p>
M	 <p>Pin & Top Clamp (Straight Clamping Hole Insert)</p>
P	 <p>Lever Lock (Straight Clamping Hole Insert)</p>
S	 <p>Screw (Screw Clamping Hole Insert)</p>
T (D, A)	 <p>Hole Clamp (Straight Clamping Hole Insert)</p>

2, 4 — Insert Compatibility *



* Related to Insert Designation to check compatibility

3 - Tool Style

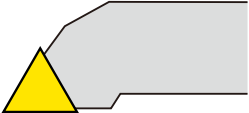
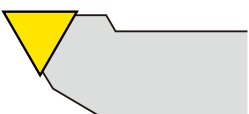

Approach Angle (KAPR)	Side Direction		End Direction
	Straight Shank	Offset Shank	
45°	D 	S 	
60°		T 	
63°	N 		
72.5°	V 		
75°	B 		K 
90°	A 	G 	F 
93°		J 	U
95°		L (Both Direction) 	
107.5°		H 	

UITWENDIGE BEITELHOUDERS



1	2	3	4	5	6	7	8	9
S	D	J	C	R	20	20	K	11
Clamping System	Insert Shape (1st Letter of Insert)	Tool Style	Insert Clearance (2nd Letter of Insert)	Tool Hand	Shank Height (H)	Shank Width (B)	Length (LF)	Insert Size

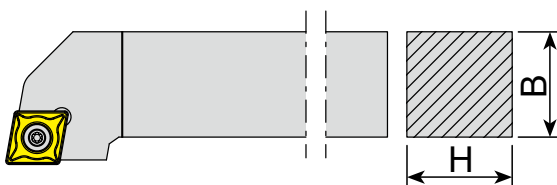
5 - Hand Direction

Symbol	Hand Direction
R	Right Hand 
L	Left Hand 
N	Neutral 

8 - Length (LF)

Symbol	Length (mm)	Symbol	Length (mm)
E	70	Q	180
F	80	R	200
H	100	S	250
K	125	T	300
M	150	U	350
P	170	V	400

6, 7 - Shank Height (H) / Shank Width (B)



9 - Insert Size *

Examples	is Compatible with...
PCLNR 2525M 12	CNMG 120408
SCLCR 2020K 09	CCMT 09T308
TWLNLR 2525M 08	WNMG 080408

* Related to Insert Designation to check compatibility

(10 - Optional Clamp)

Symbol	Optional Clamp
C	Included

INWENDIGE BEITELHOUDERS

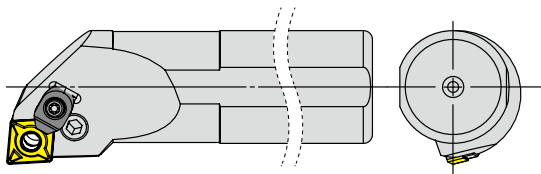


1	2	3	-	4	5	6	7	8	9	10
A	32	S	-	P	W	L	N	R	12	(C)
Coolant & Material	Shank Diameter (DCON)	Length (LF)		Clamping System	Insert Shape (1st Letter of Insert)	Tool Style	Insert Clearance (2nd Letter of Insert)	Tool Hand	Insert Size	(Optional Clamp)

1 - Coolant and Tool Material

Symbol	Internal Coolant	Tool Material
A	O	Steel
S	X	
E	O	Carbide

2 - Shank Diameter (DCON)



3 - Length (LF)

Symbol	Length (mm)	Symbol	Length (mm)
E	70	Q	180
F	80	R	200
H	100	S	250
K	125	T	300
M	150	U	350
P	170	V	400

4 - Clamping System

Symbol	System
C	<p>Top Clamp (No Clamping Hole Insert)</p>
M	<p>Pin & Top Clamp (Straight Clamping Hole Insert)</p>
P	<p>Lever Lock (Straight Clamping Hole Insert)</p>
S	<p>Screw (Screw Clamping Hole Insert)</p>
T (D, A)	<p>Hole Clamp (Straight Clamping Hole Insert)</p>



INWENDIGE BEITELHOUDERS

1	2	3	-	4	5	6	7	8	9
A	25	R	-	S	C	L	C	R	09
Coolant & Material	Shank Diameter (DCON)	Legth (LF)		Clamping System	Insert Shape (1st Letter of Insert)	Tool Style	Insert Clearance (2nd Letter of Insert)	Tool Hand	Insert Size

6 - Tool Style

Approach Angle (KAPR)	Side Direction	EndDirection
	Offset Shank	
75°		K
90°		F
93°	J	U
95°	L (Both Direction)	
107.5°		Q

8 - Hand Direction

Symbol	Hand Direction	
R	Right Hand	
L	Left Hand	
N	Neutral	

9 - Insert Size *

Examples	is Compatible with...
PCLNR 2525M 12	CNMG 120408
SCLCR 2020K 09	CCMT 09T308
TWLNLR 2525M 08	WNMG 080408

* Related to Insert Designation to check compatibility

5, 7 - Insert Compatibility *



* Related to Insert Designation to check compatibility

(10 - Optional Clamp)

Symbol	Optional Clamp
C	Included

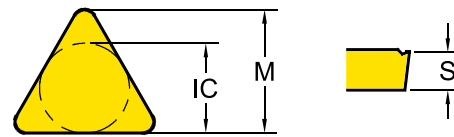
WISSELPLATEN ISO CODE



1	2	3	4	5	6	7	8	9
C	N	M	G	12	04	08	-UG	YG3020
Shape	Clearance	Tolerance	Clamping & Chipbreaker	Insert Size	Insert Thickness	Corner Radius	Chipbreaker Geometry	Grade

1 - Shape

Symbol	Shape	
H	Hexagonal	
O	Octagonal	
P	Pentagonal	
S	Square	
T	Triangular	
C	Rhombic 80°	
D	Rhombic 55°	
V	Rhombic 35°	
W	Trigon	
L	Rectangular	
K	Parallelogram 55°	
R	Round	



3 - Tolerance Class

Symbol	Inner Circle IC (mm)	Nose Height M (mm)	Thickness S (mm)
C	± 0.025	± 0.013	± 0.025
E	± 0.025	± 0.025	± 0.025
G	± 0.025	± 0.025	± 0.13
H	± 0.013	± 0.013	± 0.025
K*	± 0.05~0.15*	± 0.013	± 0.025
M*	± 0.05~0.15*	± 0.08~0.2*	± 0.13
U*	± 0.08~0.25*	± 0.13~0.38*	± 0.13

* Tolerance is different by insert IC size. Please see ISO 1832

2 - Relief Angle (AN)

Symbol	Relief Angle (AN)	
N	No Relief Angle	
B	Relief 5°	
C	Relief 7°	
P	Relief 11°	
D	Relief 15°	
E	Relief 20°	
F	Relief 25°	
O	Special	

4 - Clamping & Chipbreaker

Symbol	Clamping	Chipbreaker	Figure
N	No clamping hole	X	
R		One Face	
A	Cylindrical Clamping hole	X	
M		One Face	
G		Both Faces	
W	Screw Hole	X	
T		One Face	
U		Both Faces	
X		Special	

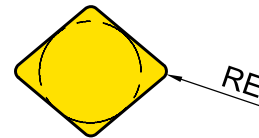
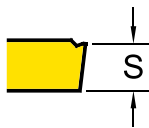
WISSELPLATEN ISO CODE



1	2	3	4	5	6	7	8	9
C	N	M	G	4	3	2	-UG	YG3020
Shape	Clearance	Tolerance	Clamping & Chipbreaker	Insert Size	Insert Thickness	Corner Radius	Chipbreaker Geometry	Grade

5 - Insert Size

Metric							Inner Circle IC (mm)	Inch
S	T	C	D	V	W	R		
06	11	06	07	11			6.35	2
07							7.94	2.5
09	16	09	11	16	06	09 (00)	9.525	3
12	22	12	15	22	08	12 (00)	12.7	4
15		16					15.875	5
19		19					19.05	6
25		25					25.4	8
						06 (M0)	6	
						08 (M0)	8	
						10 (M0)	10	
						12 (M0)	12	
						16 (M0)	16	



6 - Insert Thickness (S)

Metric	Thickness - S (mm)	Inch
T1	1.98	1.2
02	2.38	1.5
03	3.18	2
T3	3.97	2.5
04	4.76	3
05	5.56	3.5
06	6.35	4
07	7.94	5
09	9.525	6

7 - Corner Radius (RE)

Metric	Corner Radius - RE (mm)	Inch
01	0.1	0
02	0.2	0.5
04	0.4	1
08	0.8	2
12	1.2	3
16	1.6	4
20	2.0	5
24	2.4	6

GRADE NAME SYSTEM



1	2	3	4	5	(6)
YG	3	0	2	0	(G)
YG Brand	Workpiece Material	Grade Version	Application Range (1st Digit)	Application Range (2nd Digit)	Minor Variation
Carbide CVD (4 Digits)	●	●	●	●	YG3020
Carbide PVD (3 Digits)	●	●	●		YG211
Carbide Uncoated (2 Digits)	●	●			YG10

1 - YG Brand

2 - Workpiece Material

Symbol	Workpiece Material	Turning	Milling	Drilling	Parting
1	K Cast Iron or N Non-Ferrous	●			
2	M Stainless Steel	●			
3	P Steel	●			
4	S Superalloys	●			
5	K Cast Iron or N Non-Ferrous		●	●	●
6	M Stainless Steel or Universal		●	●	●
7	P Steel		●	●	●
8	Universal	●			

4 & 5 — Application Range

Symbol	
05	<p>Stable Wear Resistant Grade Stable Application Continuous Cut Finishing</p>
10	
15	
20	<p>General Balanced Grade High Versatility General Application</p>
25	
30	
35	<p>Unstable Tougher Grade Unstable Application Interrupted Cut Chipping Resistance Roughing</p>
40	
45	

3 — Grade Version

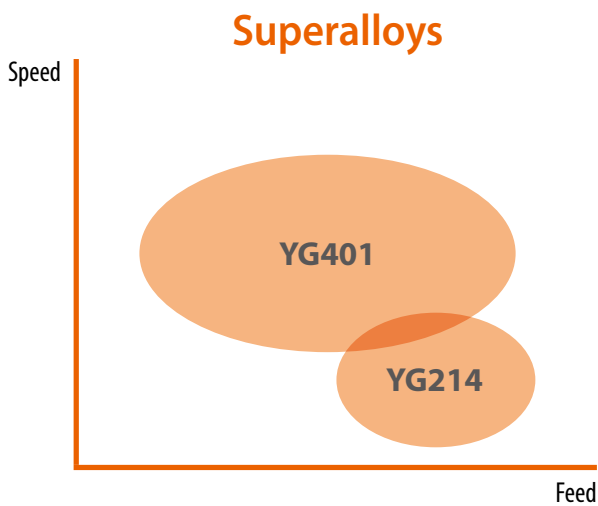
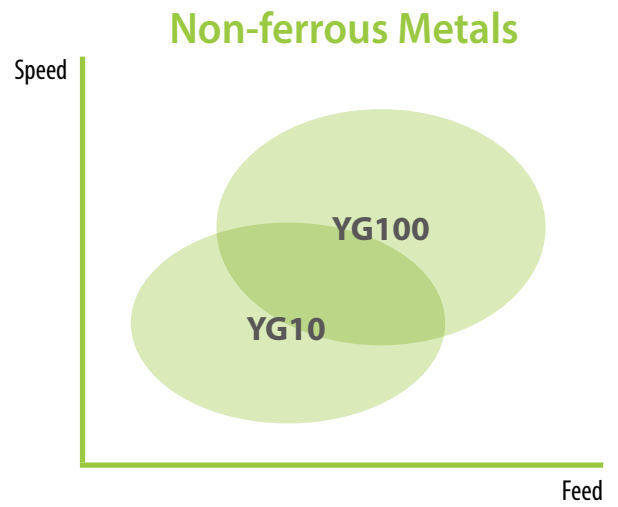
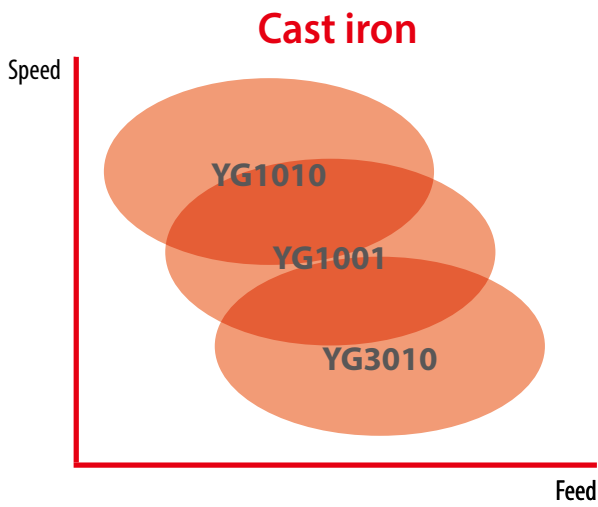
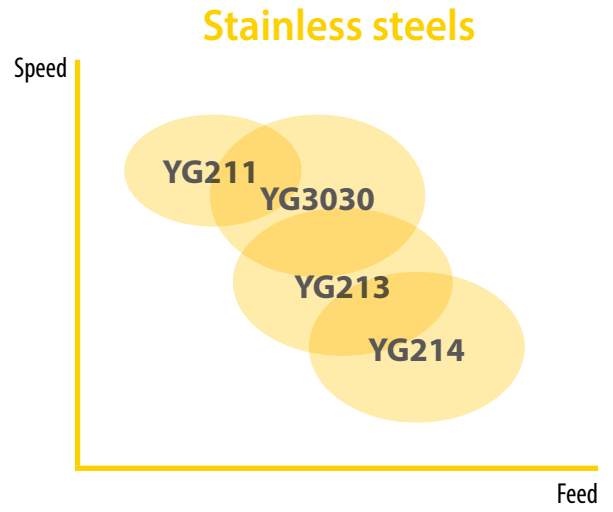
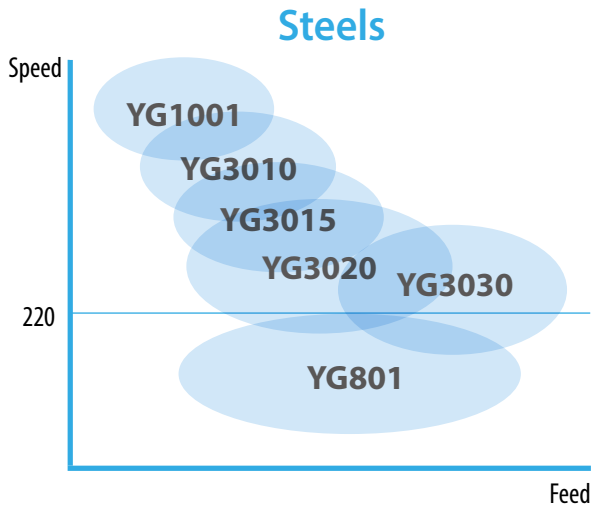
(6) — (Minor Variation)

G — Gold Coated Version

GRADE NAME SYSTEM



Speed : Vc(m/min.)
Feed : Fn (mm/rev.)



TURNING GRADES



Turning Grades	P Steel				M Stainless steel			K Cast iron			N Non-ferrous		S Superalloys	
	P10	P20	P30	P40	M10	M20	M30	K10	K20	K30	N10	N20	S10	S20
CVD	YG1010							1010						
	YG1001	1001							1001					
	YG3010		3010							3010				
	YG3015			3015										
	YG3020				3020									
	YG3030					3030								
PVD	YG801		801											
	YG211					211								
	YG213						213							
	YG214							214						214
	YG401												401	
DLC	YG100										100			
-	YG10										10			

<p>YG1010</p> <p>K05 - K15</p>	<p>CVD TiCN - Al₂O₃</p>	<p>First Choice for Cast Iron</p> <ul style="list-style-type: none"> • Effective coating structure enables high speed machining • Special post treatment for improved chipping resistance
<p>YG1001</p> <p>P01 - P10</p> <p>K10 - K25</p>	<p>CVD TiCN - Al₂O₃</p>	<p>First Choice for Stable Machining of Cast Iron</p> <ul style="list-style-type: none"> • Substrate especially designed for high wear resistance • Thick Al₂O₃ layer ensures good wear resistance at high cutting speeds including dry machining
<p>YG3010</p> <p>P05 - P20</p> <p>K15 - K35</p>	<p>CVD TiCN - Al₂O₃</p>	<p>First choice for Finishing Steels, and Ductile Cast iron</p> <ul style="list-style-type: none"> • Finishing and light machining of steel under in stable condition • New Al₂O₃ coating technology and excellent surface smoothness increase wear resistance and chipping resistance
<p>YG3015</p> <p>P10 - P25</p>	<p>CVD TiCN - Al₂O₃</p>	<p>Balanced Productivity for Continuous cut</p> <ul style="list-style-type: none"> • High wear resistance and improved toughness ensures high productivity with less trouble

TURNING GRADES

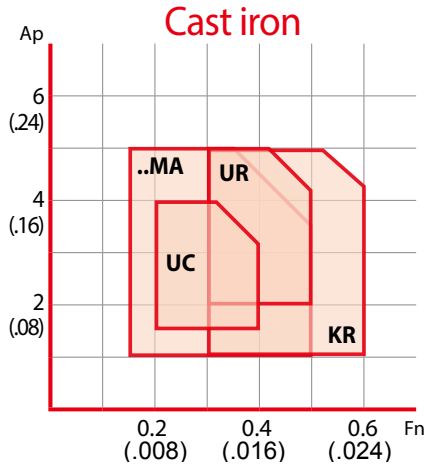
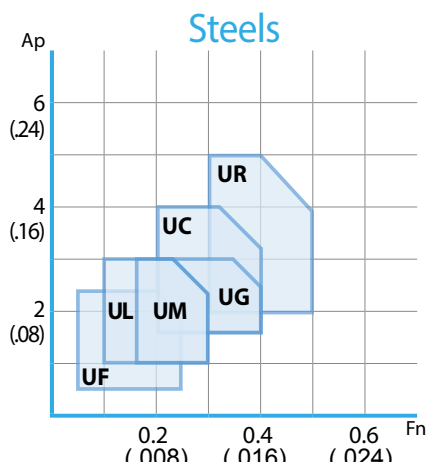


<p>YG3020</p> <p>P15 - P30</p>	 <p>CVD TiCN - Al₂O₃</p>	<p>First Choice Grade for General Steel Application</p> <ul style="list-style-type: none"> • Substrate especially designed for good toughness • Excellent surface smoothness increases wear resistance and reliability
<p>YG3030</p> <p>P20 - P35</p> <p>M10 - M30</p>	 <p>CVD TiCN - Al₂O₃</p>	<p>Interrupted Cutting of Steel and Stainless steel</p> <ul style="list-style-type: none"> • Substrate for heavy roughing in mild steel and low carbon alloy steel • New Al₂O₃ technology and optimized surface treatment achieves a good balance between wear resistance and chipping resistance
<p>YG801</p> <p>P10 - P30</p>	 <p>PVD - TiAlN</p>	<p>for Carbon Steel with Low Cutting Speed</p> <ul style="list-style-type: none"> • Recommended for mild steel and boring application • Substrate and special PVD coating for excellent wear resistance
<p>YG211</p> <p>M05 - M25</p>	 <p>PVD - TiAlN</p>	<p>High wear Resistance Grade for Stainless steel</p> <ul style="list-style-type: none"> • Finishing Stainless steel
<p>YG213</p> <p>M20 - M35</p>	 <p>PVD - TiAlN</p>	<p>First Choice Grade on Low Cutting Speed of Stainless steel</p> <ul style="list-style-type: none"> • First choice on Stainless steel for Low cutting speed • For Medium to low cutting speed
<p>YG214</p> <p>M30 - M40</p> <p>S25 - S30</p>	 <p>PVD - TiAlN</p>	<p>Heavy Interrupted cut for Stainless steel</p> <ul style="list-style-type: none"> • For Heavy Interrupted cut on Stainless steel • Minimize risk of Mechanical fracture or Chipping
<p>YG401</p> <p>S10 - S20</p>	 <p>PVD - TiAlSiN</p>	<p>PVD Turning Grade for HRSA</p> <ul style="list-style-type: none"> • Highly heat-resistant TiAlSiN structure for excellent wear resistance • Greatly improved film coating realizes excellent boundary defect resistance • Top coating layer provides a smooth surface and lubricant effect
<p>YG100</p> <p>N05 - N25</p>	 <p>DLC</p>	<p>First Choice Grade for Aluminum with DLC Coating</p> <ul style="list-style-type: none"> • Submicron carbide for high wear resistance • DLC coating minimizes Built Up Edge tendency. • Improve tool life in sticky non-ferrous alloy
<p>YG10</p> <p>N05 - N25</p>	 <p>Uncoated</p>	<p>Uncoated Grade for General Aluminum</p> <ul style="list-style-type: none"> • Substrate consisted of submicron carbide for high wear resistance • Shining surface to prevent built up edge

SPAANBREKERS DRAAIEN – NEGATIEF



P	M	K	N	S		Feed	Fn (mm/rev.)									
							0	0.1	0.2	0.3	0.4	0.5	0.6			
P					UF	Finishing 	0.05~0.25									
P					UL	Semi Finishing and sticky materials 	0.1~0.3									
P					UM	For Medium & Unstable conditions 	0.15~0.3									
P					UG	First Choice for Medium (Stable application) 	0.2~0.4									
P		K			UC	Medium Roughing and First choice for Cast iron 	0.2~0.4									
P		K			UR	Roughing and Heavy interrupted cut 	0.3~0.5									
		K			..MA	Cast iron Heavy Roughing 	0.15~0.50									
		K			KR	Cast Iron Heavy Roughing 	0.3~0.6									

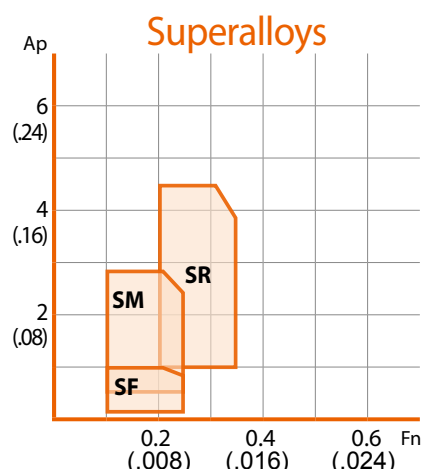
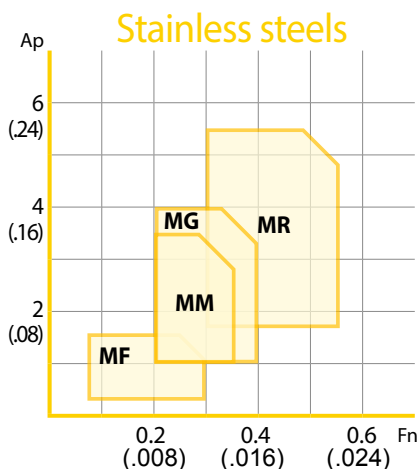


Ap : mm (inch) Fn : mm/rev. (inch/rev.)

SPAANBREKERS DRAAIEN – NEGATIEF

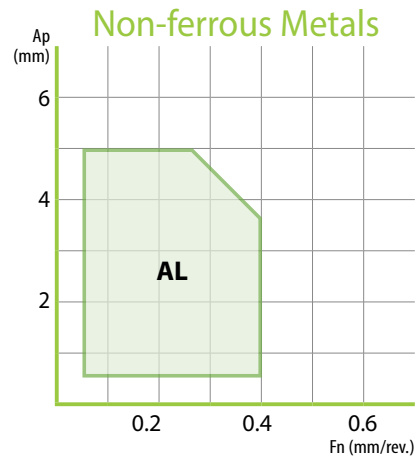
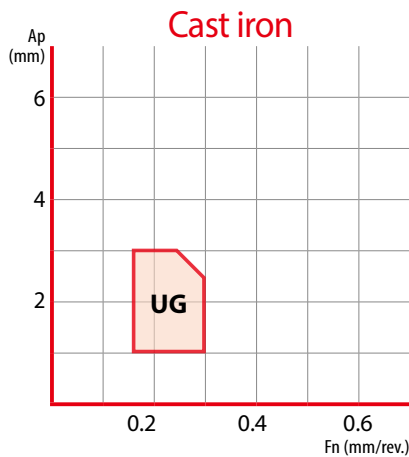
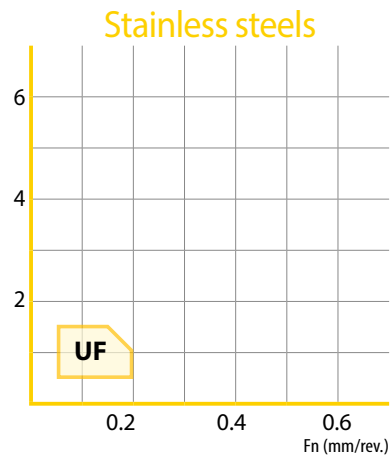
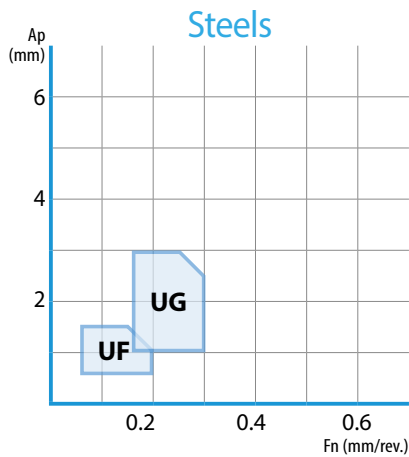
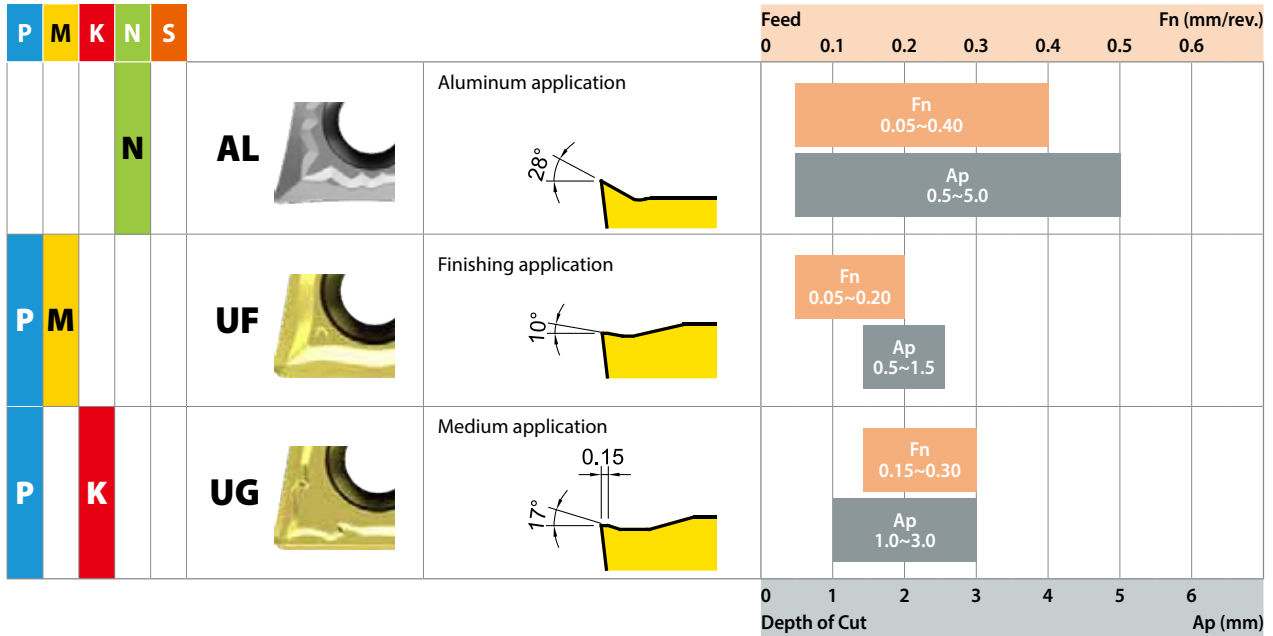


P	M	K	N	S		Feed	Fn (mm/rev.)						
							0	0.1	0.2	0.3	0.4	0.5	0.6
	M			S	MF	Stainless steel Finishing 18°	Fn 0.07~0.30		Ap 0.2~1.5				
P	M			S	MM	Stainless steel Medium and Low Carbon Steel 0.17 19° 12°	Fn 0.20~0.35		Ap 1.0~3.5				
	M			S	MG	First Choice for Medium for Stainless steel 10° 0.27	Fn 0.20~0.40		Ap 1.0 ~ 4.0				
	M			S	MR	Roughing for Stainless steel 0.40 8°	Fn 0.30~0.55		Ap 1.8~5.5				
				S	SF	HRSA Finishing 20°	Fn 0.10~0.25		Ap 0.2~1.0				
				S	SM	HRSA Medium 15°	Fn 0.10~0.25		Ap 0.5~3.0				
				S	SR	Roughing for HRSA 0.40 8°	Fn 0.20~0.35		Ap 1.0~4.5				
							0	1	2	3	4	5	6
							Depth of Cut Ap (mm)						







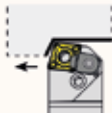
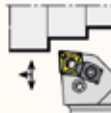
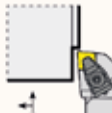





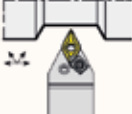
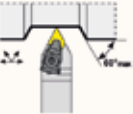






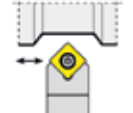

Ap : mm Fn : mm/rev.
(inch) (inch/rev)

SPAANBREKERS DRAAIEN – POSITIEF




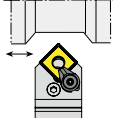
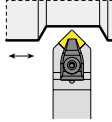
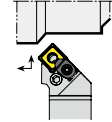
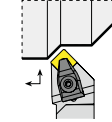
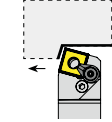
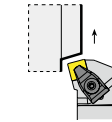
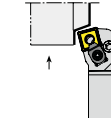

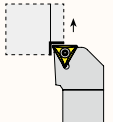
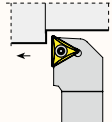
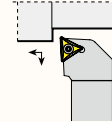
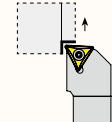

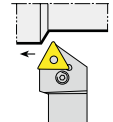
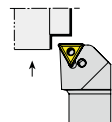
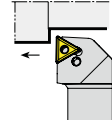
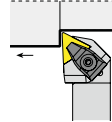
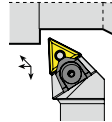
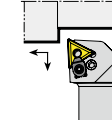
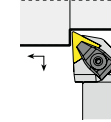

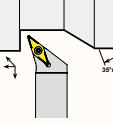
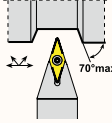
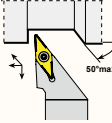

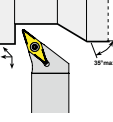
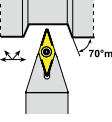
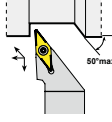

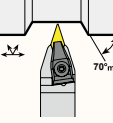
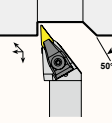

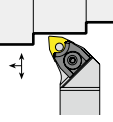
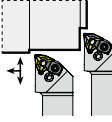
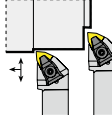
UITWENDIGE DRAAIBEITELS - OVERZICHT



Series		Turning Holder		
	CCGT CCMT	 SCACR/L Screw	 SCLCR/L Screw	
	CNMA CNMG	 PCBNR/L Lever	 PCLNR/L Lever (+Clamp)	 TCLNR/L Hole Clamp
	DCGT DCMT	 SDNCN Screw	 SDJCR/L Screw	
	DNMA DNMG	 TDHNR/L Hole Clamp	 PDNNN Lever (+Clamp)	 TDNNN Hole Clamp
	KNUX	 CKJNR/L Top Clamp		
	RCMT	 SRGCR/L Screw	 SRDCN Screw	
	SCGT SCMT	 SSDCN Screw	 SSSCR/L Screw	


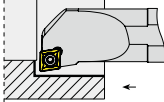
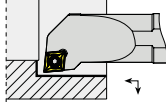
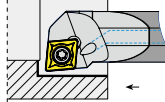

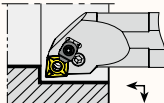
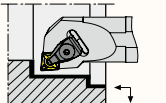

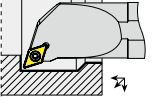
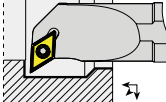
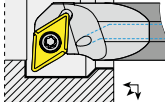

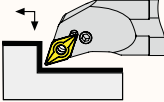
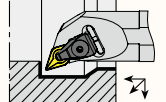
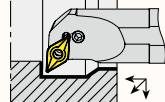
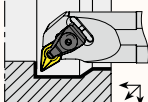

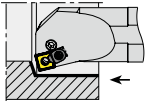

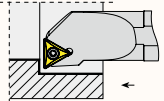
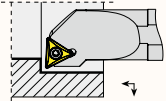
UITWENDIGE DRAAIBEITELS - OVERZICHT



Series	Turning Holder
 <p>SNMA SNMG</p>	 PSDNN Lever (+Clamp)  TSDNN Hole Clamp  PSSNR/L Lever (+Clamp)  TSSNR/L Hole Clamp  PSBNR/L Lever (+Clamp)  TSKNR/L Hole Clamp  PSKNR/L Lever (+Clamp)
 <p>TCGT TCMT</p>	 STFCR/L Screw  STGCR/L Screw  STJCR/L Screw  STUCR/L Screw
 <p>TNMA TNMG TNUX</p>	 PTTNR/L Lever (+Clamp)  PTFNR/L Lever (+Clamp)  PTGCR/L Lever (+Clamp)  TTGCR/L Hole Clamp  MTJNR/L Pin + Clamp  PTJNR/L Lever (+Clamp)  TTJNR/L Hole Clamp
 <p>VBMT</p> <p>p. 59</p>	 SVHBR/L Screw  SVVBN Screw  SVJBR/L Screw <p>p. 76 p. 76 p. 76</p>
 <p>VCGT VCMT</p>	 SVHCR/L Screw  SVVCN Screw  SVJCR/L Screw
 <p>VNMA VNMG</p>	 TVVNN Hole Clamp  TVJNR/L Hole Clamp
 <p>WNMA WNMG</p>	 MWLNR/L Pin + Clamp  PWLNR/L Lever (+Clamp)  TWLNR/L Hole Clamp


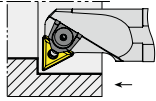
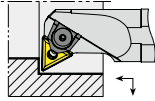
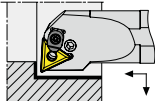
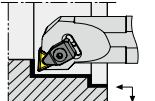

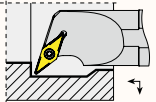
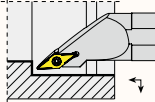
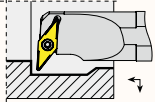

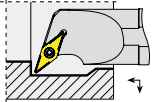
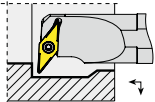

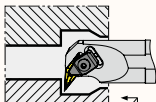

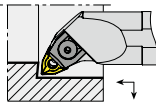
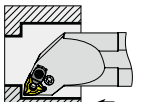
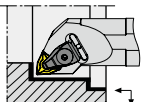
INWENDIGE DRAAIBEITELS – OVERZICHT



Series	Turning Holder			
 <p>CCGT CCMT</p>	 <p>..-SCFCR/L Screw</p>	 <p>..-SCLCR/L Screw</p>	 <p>E..-SCLCR/L Screw</p>	
 <p>CNMA CNMG</p>	 <p>..-PCLNR/L Lever (+Clamp)</p>	 <p>..-TCLNR/L Hole Clamp</p>		
 <p>DCGT DCMT</p>	 <p>..-SDQCR/L Screw</p>	 <p>..-SDUCR/L Screw</p>	 <p>E..-SDUCR/L Screw</p>	
 <p>DNMA DNMG</p>	 <p>..-PDQNR/L Lever (+Clamp)</p>	 <p>..-TDQNR/L Hole Clamp</p>	 <p>..-PDUNR/L Lever (+Clamp)</p>	 <p>..-TDUNR/L Hole Clamp</p>
 <p>SNMA SNMG</p>	 <p>..-PSKNR/L Lever (+Clamp)</p>			
 <p>TCGT TCMT</p>	 <p>..-STFCR/L Screw</p>	 <p>..-STUCR/L Screw</p>		

INWENDIGE DRAAIBEITELS – OVERZICHT

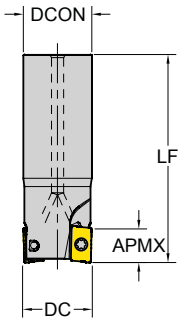


Series	Turning Holder			
 <p>TNMA TNMG TNUX</p>	 <p>..-MTFNR/L Pin + Clamp</p>	 <p>..-MTUNR/L Pin + Clamp</p>	 <p>..-PTUNR/L Lever (+Clamp)</p>	 <p>..-TTUNR/L Hole Clamp</p>
 <p>VBMT</p>	 <p>..-SVQBR/L Screw</p>	 <p>..-SVJBR/L Screw</p>	 <p>..-SVUBR/L Screw</p>	
 <p>VCGT VCMT</p>	 <p>..-SVQCR/L Screw</p>	 <p>..-SVUCR/L Screw</p>		
 <p>VNMA VNMG</p>	 <p>..-TVUNR/L Hole Clamp</p>			
 <p>WNMA WNMG</p>	 <p>..-MWLNR/L Pin + Clamp</p>	 <p>..-PWLNR/L Lever (+Clamp)</p>	 <p>..-TWLNR/L Hole Clamp</p>	

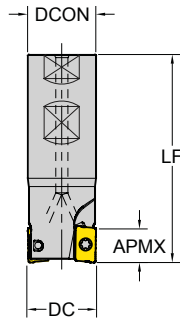


FREZEN

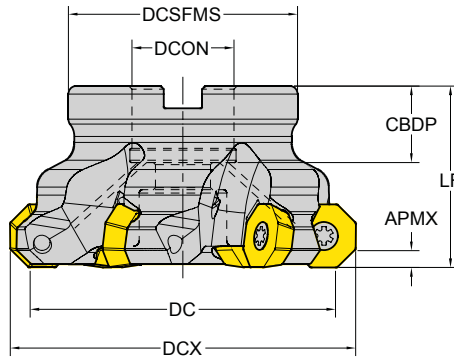
EXTERNE HOUDERS - OVERZICHT



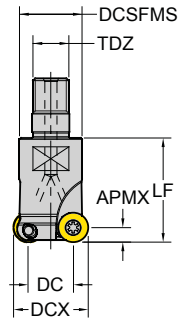
<C> Cylindrical



<W> Weldon



<S> Shell Mill



<M> Modular

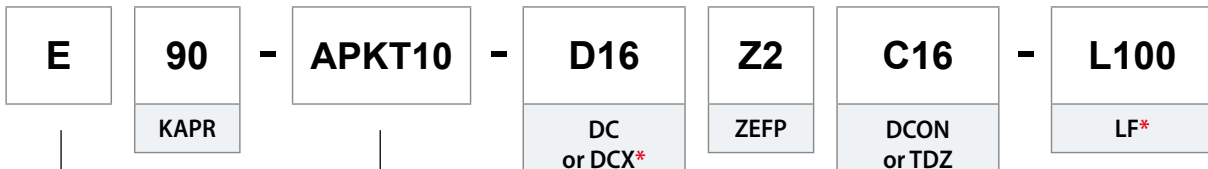
Cutting Angle
(90°)

Cutter Diameter
(Ø16)

Connection Type and Size

C - Cylindrical W - Weldon
S - Shell Mill M - Modular
(Cylindrical Ø16)

** Shank Type Only*



** DCX for Round insert*

Cutter Type

E - Endmill Type
F - Facemill Type
M - Modular Type

Insert Series

(APKT 10)

Number of Teeth

(Z=2)

Functional Length

(100mm)

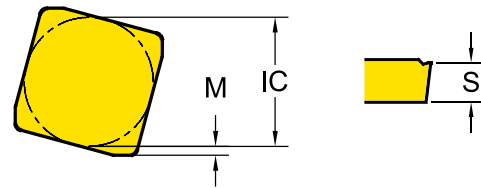


INSERT ISO CODE SYSTEM

1 A Shape	2 P Relief Angle (AN)	3 K Tolerance	4 T Clamping & Chipbreaker	5 16 Insert Size	6 04 Insert Thickness (S)	7 08 CornerRadius
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1 - Shape

Symbol	Shape	
H	Hexagonal	
O	Octagonal	
P	Pentagonal	
S	Square	
T	Triangular	
V	Rhombic 35°	
W	Trigon	
L	Rectangular	
A	Parallelogram 80°	
R	.Round	



3 - Tolerance Class

Symbol	Inner Circle IC (mm)	Nose Height M (mm)	Thickness S (mm)
C	± 0.025	± 0.013	± 0.025
E	± 0.025	± 0.025	± 0.025
G	± 0.025	± 0.025	± 0.13
H	± 0.013	± 0.013	± 0.025
K*	± 0.05~0.15*	± 0.013	± 0.025
M*	± 0.05~0.15*	± 0.08~0.2*	± 0.13
U*	± 0.08~0.25*	± 0.13~0.38*	± 0.13

*Tolerance is different by insert IC size. Please see ISO 1832

4 - Clamping & Chipbreaker

Symbol	Clamping	Chipbreaker	Figure
N	No clamping hole	X	
R		One Face	
W	Screw Hole	X	
T		One Face	
U		Both Faces	
X	Special		

2 - Relief Angle (AN)

Symbol	Relief Angle (AN)	
N	No Relief Angle	
B	Relief 5°	
C	Relief 7°	
P	Relief 11°	
D	Relief 15°	
E	Relief 20°	
F	Relief 25°	
O	Special	

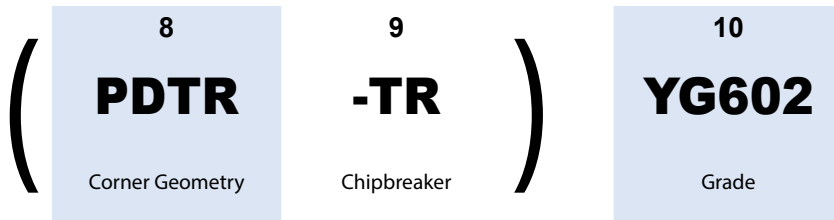
5 - Insert Size

* No Standard for milling insert size

6 - Insert Thickness

* No Standard for milling insert thickness

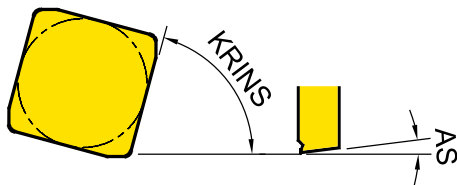
EXTERNE HOUDERS - OVERZICHT



7 - Corner Radius (RE)

Symbol	Thickness - S (mm)	Symbol	Thickness - S (mm)
04	0.4	16	1.6
08	0.8	20	2.0
12	1.2	24	2.4

8 - Corner Geometry







8-1 P	8-2 D	8-3 T	8-4 R
Cutting Edge Angle (KRINS)	Wiper Edge Clearance (AS)	Edge Condition	Feed Direction

*Refer to page. 109 for -AL, -ST, -TR... types

8-1 - Cutting Edge Angle (KRINS)

Symbol	Cutting Edge Angle (KRINS)
P	90°
A	45°
D	60°
E	75°
F	85°
Z	Special




8-3 - Edge Condition

Symbol	Edge Condition
F	Sharp 
E	Rounded 
T	Chamfered 
S	Chamfered and Rounded 

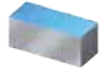
8-2 - Wiper Edge Clearance (AS)

Symbol	Wiper Edge Clearance (AS)
N	0°
P	11°
D	15°
E	20°
F	25°
Z	Special

8-4 - Feed Direction

Symbol	Feed Direction
R	Right-hand Insert 
N	Neutral Insert 
L	Left-hand Insert 

FREZEN – OVERZICHT



Face Milling

Negative Octagonal

Cutter				
APMX		5.5		6
DC		Ø63~315		Ø50~200

Negative Square

Positive Octagonal

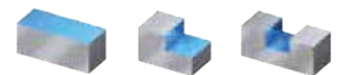
Cutter						
APMX		4		3.5		5
DC		Ø50~125		Ø63~125		Ø63~160

Positive Square

ISO

Cutter						
APMX		6	6	6		8
DC		Ø40~160	Ø50~160	Ø50~160		Ø50~200

Shoulder Milling



2 Corner Positive

Cutter						
APMX					10	16
DC					Ø16~100	Ø25~200

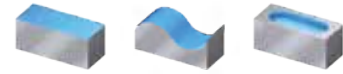
ISO

Cutter			
APMX		12	18
DC		Ø50~125	Ø63~315

FREZEN – OVERZICHT



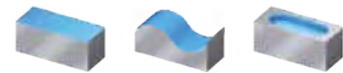
Profiling



Round Positive

Cutter						RDKT/RDKW	
					0802	10T3	1204
APMX					4	5	6
DCX					Ø16~25	Ø20~63	Ø25~100

High Feed Milling



Negative 4 Corner

Positive 4 Corner

Cutter								
					ENMX 0604	ENMX 0905		SDMT/SDMW 1204
APMX					0.9	1	1.5	1.8
DCX					Ø16~18	Ø20~50	Ø25~125	Ø32~100

Modular Shank

Modular Shank for Modular Head

Cutter		M08 ~ M16
--------	--	------------------

WISSELPLATEN VOOR FREZEN – OVERZICHT



A 2 Corner	 Positive	ADKT	ADKT 1505
		AOMT	AOMT 1236
		APKT	APKT 1003, 1604
		APMT	APMT 1135, 1504, 1604
		APXT	APXT 1135, 1604
E 4 Corner	 Negative	ENMX	ENMX 0604 ENMX 0905
O Octagon	 Positive	ODMT / ODMW	ODMT / ODMW 0605
		OFER	OFER 0704
		OFMT	OFMT 05T3
	 Negative	ONMU / ONHU	ONMU / ONHU 0806
P 10 Corner	 Negative	PNMU	PNMU1206
R Round	 Positive Round	RDKT / RDKW	RDKT 0802, 10T3, 1204, 1604 RDKW 0501, 0702, 0802, 10T3, 1204
		RDMT / RDMW	RDMT 0802, 0803, 10T3, 1204 RDMW 0802, 10T3, 1204
	 Positive 3 Corner	RPMT / RPMW	RPMT 08T2, 10T3, 1204 RPMW 1003, 1204
		RBEX50	RBEX50
S Square	 High Feed	SDMT / SDMW	SDMT 1204, SDMW 1204
	 Positive	SEKT	SEKT 12T3, 1204
		SEGT	SEGT12T3, 1204
		SEMT	SEMT1204, 13T3
		SPMT	SPMT 1204
		SDKN, SDCN (45°)	SDKN, SDCN 1203, 1504
	 ISO	SEKN / SEKR (45°)	SEKR, SEKN 1203
		SPKN / SPKR / SPCN(75°)	SPKN 1203, 1504 SPKR 1203 SPCN 1203, 1504
		SPUN	SPUN 1203
	 Negative	SNMX	SNMX1206
T Triangle	 ISO	TPKN / TPKR / TPCN(90°)	TPKN 1603, 2204 TPKR 1603, 2204 TPCN 2204
		TPUN	TPUN 1603

MILLING - GRADES

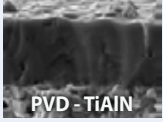
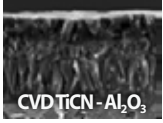



Milling Grades		P Steel					M Stainless steel				K Cast iron				N Non-ferrous				S Superalloys				
		P05	P15	P25	P35	P45	M05	M15	M25	M35	K05	K15	K25	K35	N05	N15	N25	N35	S05	S15	S25	S35	
PVD	YG602			602					602												602		
	YG622			622									622										
	YG712		712																				
	YG713		713																				
	YG613				613					613													
	YG501												501										
CVD	YG5020												5020										
Uncoated	YG50															50							






<p>YG602</p> <p>P20 - P35 M20 - M40</p> <p>K20 - K40 S15 - S25</p>	<p>PVD - TiAlN</p>	<p>Universal grade for General Milling Application</p> <ul style="list-style-type: none"> • Ultra Dense PVD Coating with optimal thermal resistance & strength • Sub-Micron substrate designed for demanding application
<p>YG622</p> <p>P20 - P40</p> <p>K20 - K40</p>	<p>PVD - AlCrN</p>	<p>Optimized Grade for High Alloyed or Prehardened Steel</p> <p>Excellent hot hardness and oxidation resistance at high speed</p>
<p>YG712</p> <p>P10 - P30</p>	<p>PVD - TiAlCrN</p>	<p>Milling Grade for Medium of Steel Application</p> <ul style="list-style-type: none"> • Superior wear resistance and excellent toughness in high speed machining • Coating layer with high hardness and oxidation resistance
<p>YG713</p> <p>P15 - P25</p>	<p>PVD - TiAlN</p>	<p>Milling Grade for General Steel Application</p> <ul style="list-style-type: none"> • Multi-layer TiAlN structure realizes stronger crater and flank wear resistance • Fine-grained carbide and balanced substrate
<p>YG613</p> <p>P30 - P50</p> <p>M30 - M40</p>	<p>PVD - TiAlN</p>	<p>Milling Grade for Stainless Steel Application</p> <ul style="list-style-type: none"> • New coating layer with high toughness and lubrication on ultra fine grain substrate with high toughness. • The toughest substrates provides excellent cutting performance in stainless steel

MILLING - GRADES



<p>YG501 K05 - K25 H05 - H25</p>	 <p>PVD - TiAlN</p>	<p>Hard Milling grade for Cast Iron</p> <ul style="list-style-type: none"> • Substrate especially designed for high wear resistance • Excellent wear resistance in cast iron milling application
<p>YG5020 K01 - K30</p>	 <p>CVD TiCN - Al₂O₃</p>	<p>CVD Milling grade for Cast Iron</p> <ul style="list-style-type: none"> • CVD coating for Excellent wear resistance • Improved Toughness for chipping resistance
<p>YG50 N05 - N20</p>	 <p>Uncoated</p>	<p>Uncoated Milling Grade for Aluminium</p> <ul style="list-style-type: none"> • Submicron carbide substrate for high wear resistance • Preventing built up edge with shining surface

Milling Chipbreakers

<p>-AL</p>		<ul style="list-style-type: none"> • For Aluminum • Very Sharp Geometry
<p>-ST</p>		<ul style="list-style-type: none"> • For Stainless Steel, Super Alloy • Sharp Geometry
<p>General Inserts (No Description)</p>		<ul style="list-style-type: none"> • First Choice for General Application
<p>-TR</p>		<ul style="list-style-type: none"> • For Hardened Steels • Reinforced Geometry
<p>...W / ...N</p>		<ul style="list-style-type: none"> • For Hardened Material and Cast Irons

HOGE SNELHEIDSFREZEN ENMX



staal / gietijzer



WERKT 5 TOT 7 X SNELLER !

4 SNIJKANTEN KUNNEN GEBRUIKT WORDEN

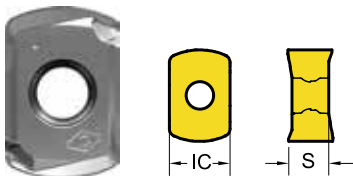
VOORDELEN

- ✓ Veelvoudige productiviteit ondanks geringe pasdiepte
- ✓ De unieke dikte van de YG-1 ENMX biedt een reeks voordelen. Een typisch slijtagepatroon bij frezen met hoge voeding is flanklijtage en naarmate deze slijtage toeneemt, kan deze de secundaire rand aantasten. Door de wisselplaten 20-25% dikker te maken dan bestaande oplossingen op de markt, kan men deze slijtage laten ontwikkelen zonder de secundaire snijkant te beschadigen, wat resulteert in volledig gebruik van alle 4 de snijkanten, wat een economische oplossing oplevert. De wisselplaatdikte leent zich ook voor de meest stabiele klemming, wat zorgt voor een voorspelbare en veilige bewerking en een langere standtijd in de zwaarste toepassingen.
- ✓ De dikkere negatieve wisselplaat heeft een positieve spaanhoek die de spaanafvoer verbetert en de bewerkingsbelasting vermindert. Krachten worden opgevangen door de spindel. Een hoekbeschermingsontwerp wordt toegepast om de stijfheid te vergroten en de standtijd te verlengen met een optimale geometrie van spaanbrekers.
- ✓ Werkt 5 tot 7x sneller
- ✓ De 4 snijkanten kunnen gebruikt worden

ENMX - HIGH FEED NEGATIVE (4 CORNERS)

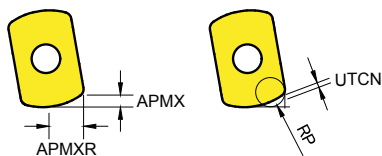
MILLING - INSERT

- Insert size (IC): 6 mm
- Thickness(S) : 3.83 mm
- Geometries : General, -TR



	BENAMING	RE (mm)	FZ (mm/tand)	YG602 EDP 1200..
ENMX (alg. gebruik)	ENMX 0604	0,8	0,3 ~ 1,5	0474
-TR gehard staal en hardox	ENMX 0604 - TR	0,8	0,3 ~ 2,5	0459

TECHNISCHE INFORMATIE

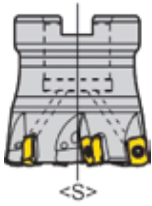


DCX	APMX	APMXR	RP	UTCN
Max. snijdiameter	AP max.	Radial AP Max	Programmed Corner R	Uncut Thickness
Ø16	0,7	3,5	R1,5	0,3
Ø20-	1,0	3,7	R2,0	0,35

WISSELPLATEN



ART. NR.	OMSCHRIJVING	AFMETINGEN
17000644	EHF-ENMX06-D16Z2C16-L100	16X16X100(2F)/ENMX06
17000645	EHF-ENMX06-D16Z2C16-L150	16X16X150(2F)/ENMX06
17000463	EHF-ENMX06-D20Z3C20-L130	20X20X130(3F)/ENMX06
17000646	EHF-ENMX06-D20Z3C20-L160	20X20X160(3F)/ENMX06
17000647	EHF-ENMX06-D25Z4C25-L140	25X25X140(4F)/ENMX06
17000464	EHF-ENMX06-D25Z4C25-L180	25X25X180(4F)/ENMX06
17000648	EHF-ENMX06-D25Z4C25-L250	25X25X250(4F)/ENMX06
17000479	EHF-ENMX06-D26Z4C25-L150	26X25X150(4F)/ENMX06
17000480	EHF-ENMX06-D26Z4C25-L200	26X25X200(4F)/ENMX06
17000649	EHF-ENMX06-D32Z5C32-L150	32X32X150(5F)/ENMX06
17000465	EHF-ENMX06-D32Z5C32-L200	32X32X200(5F)/ENMX06



ART. NR.	OMSCHRIJVING	AFMETINGEN
17000482	FHF-ENMX06-D40Z6S16	40X16X40(6F)/ENMX06
17000471	FHF-ENMX06-D50Z6S22	50X22X50(6F)/ENMX06



ART. NR.	OMSCHRIJVING	AFMETINGEN
17000691	MHF-ENMX06-D16Z2M08	16XM08X20(2F)/ENMX06
17000692	MHF-ENMX06-D20Z3M10	20XM10X30(3F)/ENMX06
17000693	MHF-ENMX06-D25Z4M12	25XM12X35(4F)/ENMX06
17000694	MHF-ENMX06-D32Z5M16	32XM16X42(5F)/ENMX06
17000695	MHF-ENMX06-D35Z5M16	35XM16X42(5F)/ENMX06
17000732	MHF-ENMX06-D40Z6M16	40XM16X40(6F)/ENMX06
17000696	MHF-ENMX06-D42Z6M16	42XM16X42(6F)/ENMX06

i SNIJSNELHEDEN

Snijsnelheid			Vc (m/min.)	
ISO	VDI	GROEP	YG602	
			Min.	Max.
P	1-5	Ongelegeerd staal	140	380
	6-9	Zwak gelegeerd staal	120	300
	10-11	Sterk gelegeerd staal	70	150
M	12-13	Ferritisch en martenstic RVS / inox	120	200
	14	Austenitisch roestvrij staal	130	250
K	15-16	Gietijzer	120	250
	17-18	Nodulair gietijzer	130	220
N	21-30	Non-ferro metalen	-	-
S	31-37	Titanium en super-legering	25	45
H	38-41	Geharde materialen	40	80

In deze tabel vindt u een overzicht terug van de verschillende snijsnelheden.

ENMX PLATEN

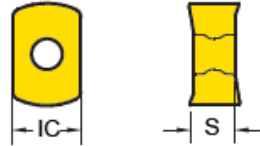
ART. NR.	OMSCHRIJVING	
ENMX0604-YG602	UNIVERSELE GEOMETRIE	
ENMX0604-TR602	VERSTERKTE GEOMETRIE	

ENMX0905

INSERT LIST



ART. NR.	OMSCHRIJVING
12000702	ENMX 0905 YG602
12000703	ENMX 0905 YG613
12000704	ENMX 0905 YG622
12000705	ENMX 0905-ST YG602
12000706	ENMX 0905-ST YG613
12000600	ENMX0905-TR YG602
12000629	ENMX0905-TR YG622



I.C	S
9.0	5.4

WRENCH & SCREW

TYPE	ART. NR.	OMSCHRIJVING
Wrench	18000216	TPWBTP09
Screw	18000214	TP093510-GS

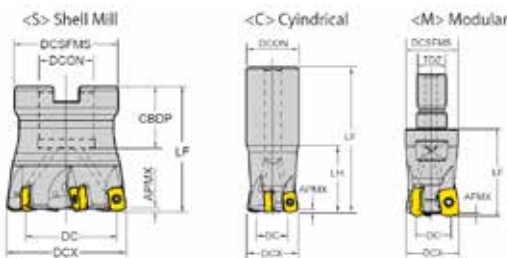
WRENCH INFORMATION

TYPE	ART. NR.	OMSCHRIJVING
Handle	18000189	DH-H4
Bit	18000209	DB-TP09



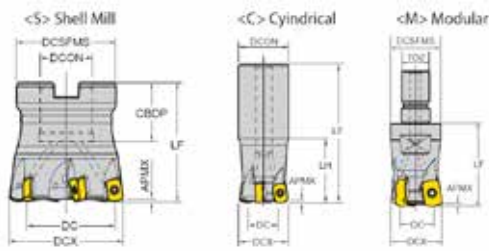
Recommended torque for tighten the screw is 2.0 Nm

CUTTER LIST - METRIC



TYPE	ART. NR.	OMSCHRIJVING	DC	DCX	ZEFP	LF	DCON/TDZ	LH	CBDP	DCSFMS	COOLANT
Endmill	17000745	EHF-ENMX09-D25Z2C25-L150	14.5	25	2	150	25	70	-	-	•
	17000746	EHF-ENMX09-D26Z2C25-L200	15.74	26	2	200	25	30	-	-	•
	17000747	EHF-ENMX09-D26Z3C25-L200	15.74	26	3	200	25	30	-	-	•
	17000748	EHF-ENMX09-D32Z3C32-L160	21.1	32	3	160	32	70	-	-	•
	17000749	EHF-ENMX09-D33Z3C32-L200	22.26	33	3	200	32	30	-	-	•
	17000750	EHF-ENMX09-D33Z4C32-L200	22.26	33	4	200	32	40	-	-	•
	17000751	EHF-ENMX09-D40Z5C32-L180	29.11	40	5	180	32	40	-	-	•
Facemill	17000752	FHF-ENMX09-D50Z5S22	38.39	50	5	50	22	-	20	42	•
	17000753	FHF-ENMX09-D63Z6S22	51.28	63	6	50	22	-	20	48	•
	17000754	FHF-ENMX09-D63Z7S22	51.28	63	7	50	22	-	20	48	•
	17000755	FHF-ENMX09-D80Z8S27	67.4	80	8	50	27	-	23	56	•
	17000824	FHF-ENMX09-D100Z10S32	86.74	100	10	63	32	-	26	78	•
	17000825	FHF-ENMX09-D125Z12S40	110.94	125	12	63	40	-	29	89	•
Modular	17000811	MHF-ENMX09-D25Z2M12	14.5	25	2	35	M12	35	-	21	•
	17000812	MHF-ENMX09-D25Z3M12	14.5	25	3	35	M12	35	-	21	•
	17000813	MHF-ENMX09-D26Z2M12	15.74	26	2	35	M12	35	-	21	•
	17000814	MHF-ENMX09-D26Z3M12	15.74	26	3	35	M12	35	-	21	•
	17000815	MHF-ENMX09-D32Z3M16	21.1	32	3	42	M16	42	-	29	•
	17000816	MHF-ENMX09-D32Z4M16	21.1	32	4	42	M16	42	-	29	•
	17000817	MHF-ENMX09-D33Z2M16	22.26	33	2	42	M16	42	-	29	•
	17000818	MHF-ENMX09-D33Z3M16	22.26	33	3	42	M16	42	-	29	•
	17000819	MHF-ENMX09-D33Z4M16	22.26	33	4	42	M16	42	-	29	•

CUTTER LIST - INCH



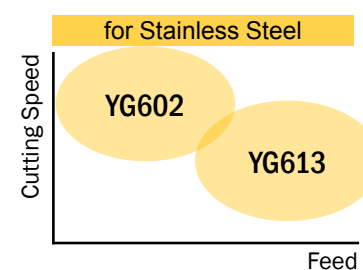
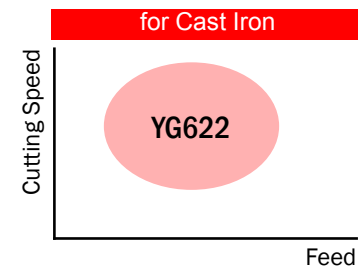
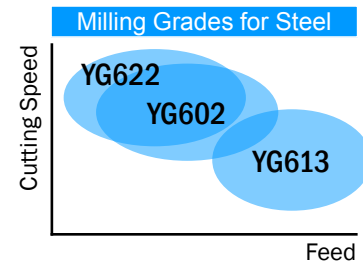
TYPE	ART. NR.	OMSCHRIJVING	DC	DCX	ZEFP	LF	DCON/TDZ	LH	CBDP	DCSFMS	COOLANT
Endmill	17000777	EHF-ENMX09 D100Z2W100 L550I	0.61"	1.0"	2	5.5"	1.0"	2.50"	-	-	•
	17000778	EHF-ENMX09 D125Z3W125 L600I	0.86"	1.25"	3	6.0"	1.25"	3.0"	-	-	•
	17000779	EHF-ENMX09 D150Z4W125 L600I	1.11"	1.50"	4	6.0"	1.25"	1.5"	-	-	•
Facemill	17000780	FHF-ENMX09 D200Z5S075I	1.6"	2.0"	5	1.969"	0.75"	-	0.75"	1.75"	•
	17000781	FHF-ENMX09 D250Z6S075I	2.1"	2.5"	6	1.969"	0.75"	-	0.75"	2.2"	•
	17000782	FHF-ENMX09 D300Z8S100I	2.6"	3.0"	8	2.48"	1.0"	-	1.05"	2.2"	•
	17000783	FHF-ENMX09 D400Z10S125I	3.6"	4.0"	10	2.48"	1.25"	-	1.26"	3"	•
	17000784	FHF-ENMX09 D600Z14S200I	5.6"	6.0"	14	2.48"	2.0"	-	1.5"	4.7"	•
Modular	17000852	MHF-ENMX09 D100Z2M12I	0.6"	1.0"	2	1.5"	M12	1.5"	-	0.827"	•
	17000853	MHF-ENMX09 D1125Z2M12I	0.73"	1.125"	2	1.5"	M12	1.5"	-	0.827"	•
	17000854	MHF-ENMX09 D125Z3M16I	0.82"	1.25"	3	1.75"	M16	1.75"	-	1.142"	•
	17000855	MHF-ENMX09 D1375Z3M16I	0.98"	1.375"	3	1.75"	M16	1.75"	-	1.142"	•
	17000856	MHF-ENMX09 D150Z4M16I	1.11"	1.5"	4	1.75"	M16	1.75"	-	1.142"	•

i SNIJSNELHEDEN

			Vc	
ISO	VDI	GROEP	Min	Max
P	1~5	Ongelegeerd staal	180	280
	6~9	Zwak gelegeerd staal	150	250
	10~11	Sterk gelegeerd staal	70	140
M	12~13	Ferritisch en martensitic RVS / inox	70	180
	14	Austenitisch roestvrij staal	70	200
K	15~16	Gietijzer	120	270
	17~18	Nodulair gietijzer	130	240
S	31~35	super-legering	25	45
	36~37	Titanium legeringen	25	50

In deze tabel vindt u een overzicht terug van de verschillende snijsnelheden.

MILLING GRADE MAP

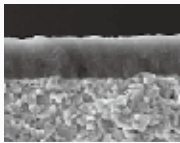
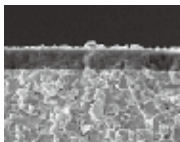
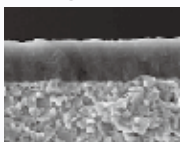






BOREN

Drilling Grades



Drilling Grades		P Steel					M Stainless steel					K Cast iron				
		P05	P15	P25	P35	P45	M05	M15	M25	M35	M45	K05	K15	K25	K35	K45
PVD	YG602			602					602					602		
	YG713		713													
	YG613				613					613						

<p>YG602</p> <p>P20 - P35 M20 - M40</p> <p>K20 - K40 S15 - S25</p>	<p>PVD - TiAlN</p> 	<p>Universal grade for General Drilling Application</p> <ul style="list-style-type: none"> • Ultra Dense PVD Coating with optimal thermal resistance & strength • Sub-Micron substrate designed for demanding application
<p>YG713</p> <p>P15 - P25</p>	<p>PVD - TiAlN</p> 	<p>Drilling Grade for General Steel Application</p> <ul style="list-style-type: none"> • Multi-layer TiAlN structure realizes stronger crater and flank wear resistance • Fine-grained carbide and balanced substrate
<p>YG613</p> <p>P30 - P50</p> <p>M30 - M50</p>	<p>PVD - TiAlN</p> 	<p>Drilling Grade for Stainless Steel Application</p> <ul style="list-style-type: none"> • New coating layer with high toughness and lubrication on ultra fine grain substrate with high toughness. • The toughest substrates provides excellent cutting performance in stainless steel

Universal Drilling Inserts

	4 Corner	SPMX Series	SPMX	05, 06, 07, 09, 11, 14
	ISO 3 Corner	WCMX Series	WCMX	03, 04, 05, 06, 08

Drilling Chipbreakers

P	M	K		
	M		-ST	 <ul style="list-style-type: none"> • Sharp Geometry • Sticky Material, Stainless Steel
P	M	K	General Inserts (No Description)	 <ul style="list-style-type: none"> • First Choice for General Application



AFSTEKEN EN GROEVEN

OPSPANBLOK

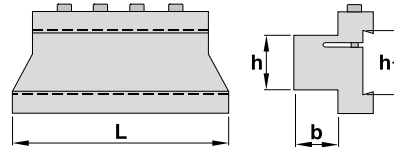
CANELA






Characteristics:

Tool blocks manufactured with two slot-guide which allows to maintain the blade always guided. The fixing system by flexion ensures good rigidity and security.

Uses: Tool block for manual and C.N.C. lathes.



CPTS

Ref.		h ₁	L	h	b			
CPTS 1916		19	76	16	16	0,300	1075	5004
CPTS 2616		26	87	16	16	0,450	1076	5005
CPTS 2620		26	87	20	20	0,500	1076	5005
CPTS 2625		26	87	25	25	0,650	1076	5005
CPTS 3220		32	100	20	20	0,700	1076	5005
CPTS 3225		32	110	25	25	0,950	1076	5005
CPTS 3232		32	120	32	32	1,400	1076	5005
CPTS 5250		52	135	50	50	3,400	1078	5006

AFSTEEKMES

CANELA



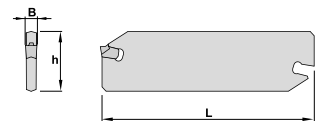
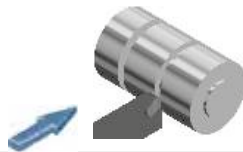
Characteristics:

One sided inserts with thickness from 2 to 9 mm.



The double "V" pocket ensures a reliable and repetitive insert positioning and centering.

Available in 4 sizes (19,26,32 and 53).

Applications: Parting, grooving blade that works well on steels, alloyed steels, stainless steels and refractories.

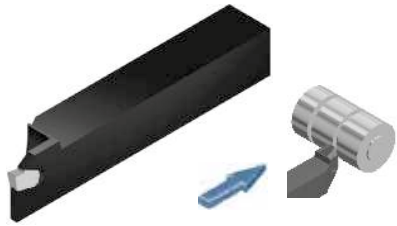


XLCFN

Ref.		h	L	B	Insert size		
XLCF N 1901 X02		19	86	2,1	PTNT 02	0,040	5732
XLCF N 2601 J02		26	110	2,1	PTNT 02	0,050	5732
XLCF N 2602 J03		26	110	3,1	PTNT 03	0,050	5732
XLCF N 2603 J04		26	110	4,1	PTNT 04	0,085	5732
XLCF N 2604 J05		26	110	5,1	PTNT 05	0,095	5732
XLCF N 2605 J06		26	110	6,1	PTNT 06	0,120	5732
XLCF N 3201 M02		32	150	2,1	PTNT 02	0,075	5732
XLCF N 3202 M03		32	150	3,1	PTNT 03	0,100	5732
XLCF N 3203 M04		32	150	4,1	PTNT 04	0,130	5732
XLCF N 3204 M05		32	150	5,1	PTNT 05	0,160	5732
XLCF N 3205 M06		32	150	6,1	PTNT 06	0,190	5732
XLCF N 3207 M08		32	150	8,1	PTNT 08	0,230	5732
XLCF N 3208 M09		32	150	9,1	PTNT 09	0,270	5732
XLCF N 5207 X08		53	190	8,1	PTNT 08	0,500	5732
XLCF N 5208 X09		53	190	9,1	PTNT 09	0,600	5732
XLCF N 5307 X08		53	260	8,1	PTNT 08	0,700	5732
XLCF N 5308 X09		53	260	9,1	PTNT 09	0,800	5732

AFSTEEK BEITELHOUDER

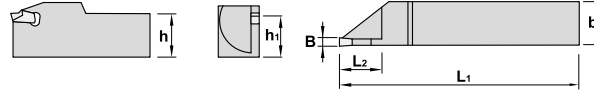
CANELA



Characteristics:

One sided inserts with thickness from 2 to 4 mm.

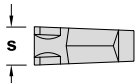
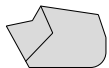
The "V" positioning system of the pocket and the clamp integrated to the tool ensure maximum security and repetitivity on the dimensions when the insert is changed. **Applications:** Parting and grooving toolholder that works well on steels, alloyed steels, stainless steels and refractories.



XLCF

Ref.		h=h1	b	L1	L2	B	Insert size	Kg
XLCF R/L 1010 J02	XLCF R/L 1010 J02	10	10	110	18	2	PTNT 02	0,080
	XLCF R/L 1212 J02	12	12	110	18	2	PTNT 02	0,100
XLCF R/L 1612 J03	XLCF R/L 1612 J03	16	12	110	20	3	PTNT 03	0,150
	XLCF R/L 1612 J04	16	12	110	20	4	PTNT 04	0,150
XLCF R/L 2012 K03	XLCF R/L 2012 K03	20	12	125	20	3	PTNT 03	0,200
	XLCF R/L 2012 K04	20	12	125	20	4	PTNT 04	0,200
XLCF R/L 2020 K03	XLCF R/L 2020 K03	20	20	125	20	3	PTNT 03	0,350
	XLCF R/L 2020 K04	20	20	125	20	4	PTNT 04	0,350
XLCF R/L 2525 M03	XLCF R/L 2525 M03	25	25	150	20	3	PTNT 03	0,650
	XLCF R/L 2525 M04	25	25	150	20	4	PTNT 04	0,650

Ref.	XLCF R/L 1010 J02	5732
	XLCF R/L 1212 J02	5732
XLCF R/L 1612 J03	XLCF R/L 1612 J03	5732
	XLCF R/L 1612 J04	5732
XLCF R/L 2012 K03	XLCF R/L 2012 K03	5732
	XLCF R/L 2012 K04	5732
XLCF R/L 2020 K03	XLCF R/L 2020 K03	5732
	XLCF R/L 2020 K04	5732
XLCF R/L 2525 M03	XLCF R/L 2525 M03	5732
	XLCF R/L 2525 M04	5732



Ref.	PTNT	s
	PTNT 02	2,10
	PTNT 03	3,10
	PTNT 04	4,10

Single-ended insert for parting and grooving.

For more information see page: G.04

PTNT						

ESSET AANSLAGEN



REF.	TYPE	AFM.
76.PS.15	SINGLE POSISTOP	H=15 mm
76.PS.20	SINGLE POSISTOP	H=20 mm
76.PS.25	SINGLE POSISTOP	H=25 mm
76.PS.30	SINGLE POSISTOP	H=30 mm
76.PS.35	SINGLE POSISTOP	H=35 mm
76.PS.40	SINGLE POSISTOP	H=40 mm

REF.	TYPE	AFM.
76.PS.SET.3	SET POSISTOP	H=15/20/25 mm
76.PS.SET.4	SET POSISTOP	H=15/20/25/30 mm
76.PS.SET.5	SET POSISTOP	H=15/20/25/30/35 mm
76.PS.SET.6	SET POSISTOP	H=15/20/25/30/35/40 mm

