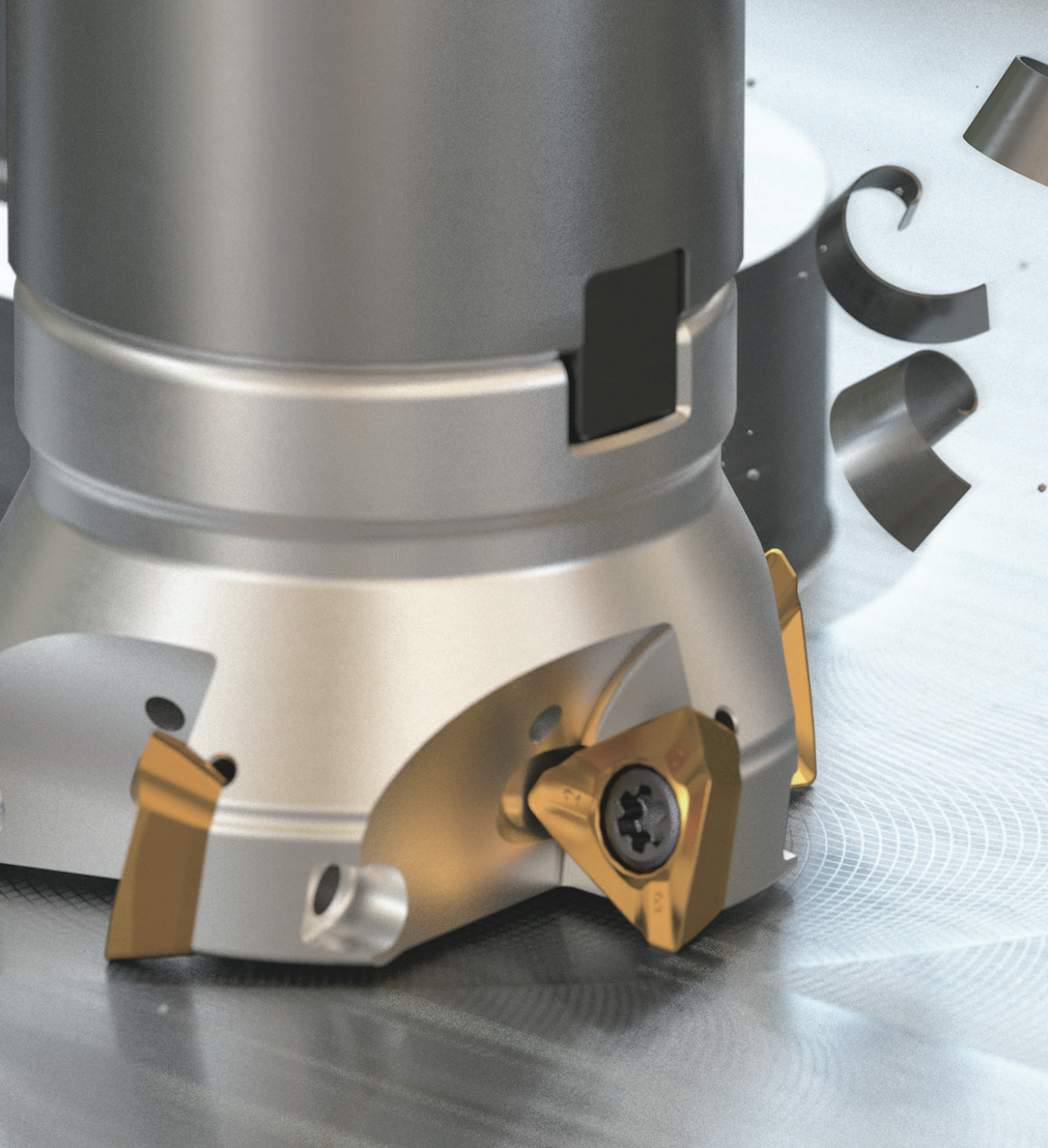




MILLING

Product Overview

Application Guide

Milling Inserts Overview

Milling Cutter Overview

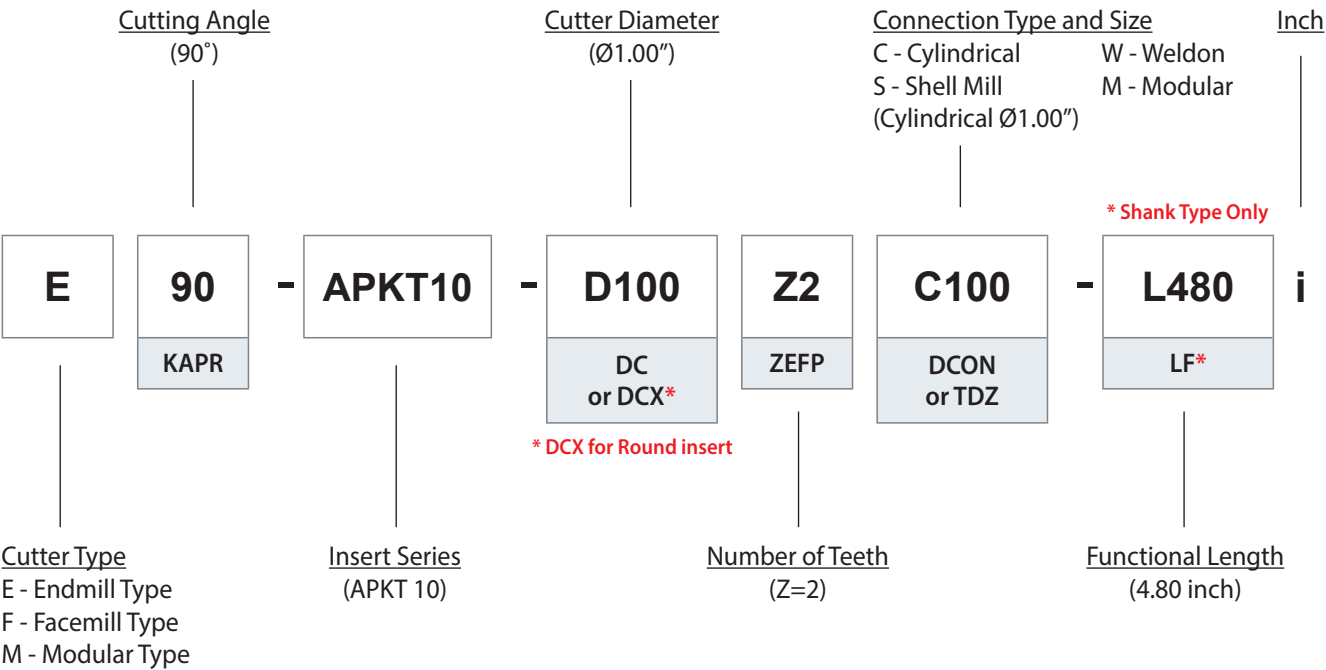
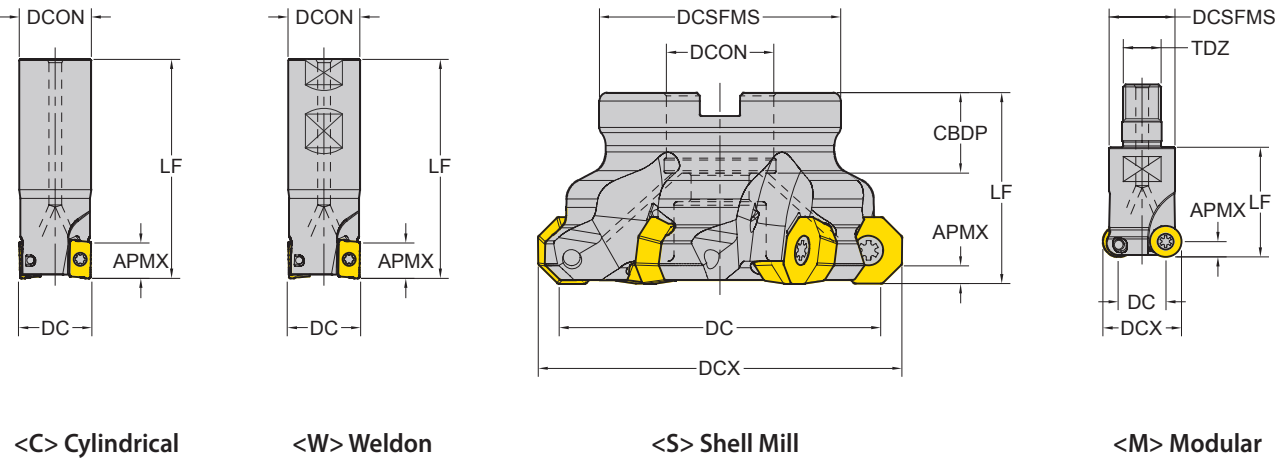


Scan this QR code to see our YG SM3 Mill at work.



Scan this QR code to see our YG HF4 Mill at work.

Code Keys - Milling Cutters



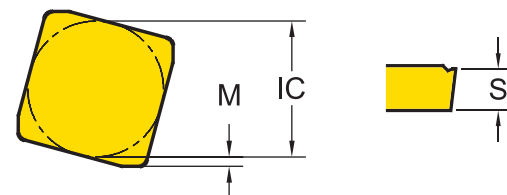
1 A Shape	2 P Relief Angle (AN)	3 K Tolerance	4 T Clamping & Chipbreaker	5 16 Insert Size	6 04 Insert Thickness (S)	7 08 Corner Radius
------------------------	------------------------------------	----------------------------	---	-------------------------------	--	---------------------------------

1 - Shape

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

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	



3 - Tolerance Class

Symbol	Inner Circle IC (in)	Nose Height M (in)	Thickness S (in)
C	±.0010	±.0005	±.0010
E	±.001	±.0010	±.001
G	±.001	±.0010	±.005
H	±.0005	±.0005	±.0010
K*	±.002~.006*	±.0005	±.005
M*	±.002~.006*	±.003~.010*	±.005
U*	±.003~.010*	±.005~.015*	±.005

* 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	

5 - Insert Size

* No Standard for milling insert size

6 - Insert Thickness

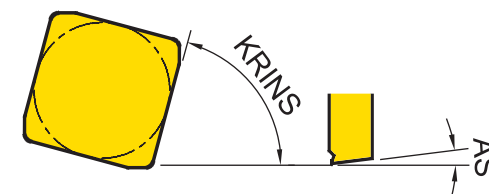
* No Standard for milling insert thickness

8 PDTR Corner Geometry	9 -TR Chipbreaker	10 YG602 Grade
-------------------------------------	--------------------------------	-----------------------------

7 - Corner Radius (RE)

Symbol	Thickness - S (in)	Symbol	Thickness - S (in)
04	.016	16	.063
08	.031	20	.079
12	.047	24	.094

8 - Corner Geometry



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

*Refer to page. 119 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

8-2 - Wiper Edge Clearance (AS)

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

8-3 - Edge Condition

Symbol	Edge Condition	
F	Sharp	
E	Round	
T	Chamfer	
S	Chamfer and Round	

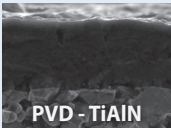
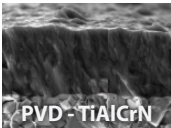
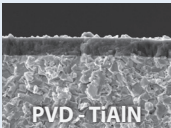
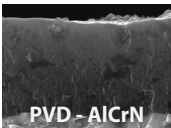
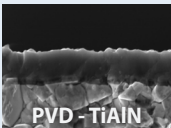
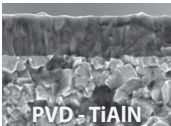
8-4 - Feed Direction

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

Milling Grades and Chipbreakers

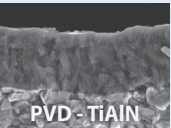
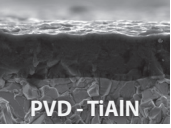
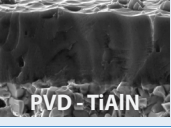
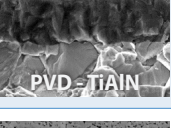
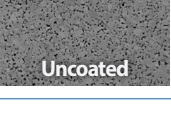
Milling Grades

Milling Grades	P Steel					M Stainless steel				K Cast iron				N Non-ferrous				S Super alloys				H Hardened Steel			
	P05	P15	P25	P35	P45	M05	M15	M25	M35	K05	K15	K25	K35	N05	N15	N25	N35	S05	S15	S25	S35	H05	H15	H25	H35
PVD	YG012	012																					012		
	YG712	712																							
	YG713	713																							
	YG612	612					612												612						
	YG622	622								622															
	YG602	602					602			602									602						
	YG613	613					613																		
	YG614						614												614						
	YG501									501															
	YG904																			904					
CVD	YG5020									5020															
Uncoated	YG50													50											

YG012 H10 - H30 P10 - P30		Optimized Milling Grade for Pre-Hardened & Hardened steel - Applied Extreme Oxidation PVD layer and Crack-free Substrate - Excellent Cutting performance for Die & Mold application
YG712 P10 - P30		Milling Grade for Medium of Steel Application - Superior wear resistance and excellent toughness in high speed machining - Coating layer with high hardness and oxidation resistance
YG713 P15 - P25		Milling Grade for General Steel Application - Multi-layer TiAlN structure realizes stronger crater and flank wear resistance - Fine-grained carbide and balanced substrate
YG622 P20 - P35 K20 - K40		Optimized Grade for High Alloyed or Prehardened Steel Excellent for High Temperature Hardness and Oxidation Resistance at High Speed
YG612 P20 - P40 M20 - M40 S20 - S40		Specialized Multi-Nano Coated Grade with high wear resistance and chipping resistance - Special Multi-Nano coating prevent crack and providing predictable tool life - Special universal Grade can achieve stable tool life in any workpiece
YG602 P20 - P35 K20 - K40 M20 - M40 S15 - S25		Universal grade for General Milling Application - Ultra Dense PVD Coating with optimal thermal resistance & strength - Sub-Micron substrate designed for demanding application

Milling Grades and Chipbreakers

Milling Grades

YG613 P30 - P50 M30 - M40		Milling Grade for Stainless Steel Application - New coating layer with lubrication preventing built-up edge on ultra fine grain substrate with high toughness. - The toughest substrate provides excellent cutting performance in stainless steel
NEW YG614 M35 - M45 S35 - S45		Milling grade for stainless steel in wet-cutting applications - The substrate offers excellent chipping resistance under wet-cutting conditions - The coating provides a lubricating effect that prevent built-up edge formation
YG501 K05 - K25		Hard Milling grade for Cast Iron - Substrate especially designed for high wear resistance - Excellent wear resistance in cast iron milling application
YG5020 K01-K30		CVD Milling grade for Cast Iron - CVD coating for Excellent wear resistance - Improved Toughness for chipping resistance
NEW YG904 S30 - S45		Excellent performance for machining HRSA(Heat resistant super alloys) - Newly developed substrate improves resistance to chipping and breakage - High-performance PVD coating technology ensures excellent wear resistance for machining HRSA
YG50 N05 - N20		Uncoated Milling Grade for Aluminium - Submicron carbide substrate for high wear resistance - Preventing built up edge with shining surface

Milling Chipbreakers

-AL		- For Aluminum - Very Sharp Geometry
-ST		- For Stainless Steel, Super Alloy - Sharp Geometry
-GN (General Type)		First Choice for General Application
-TR		- For Hardened Steels - Reinforced Geometry
...W / ...N		For Hardened Material and Cast Irons

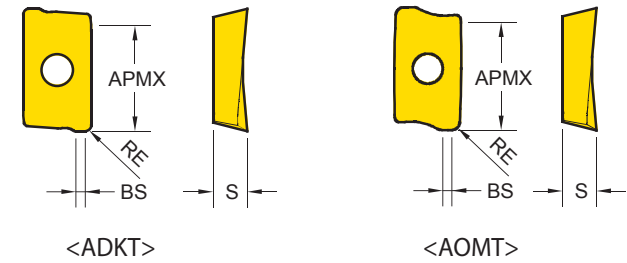
Milling Inserts Overview

Recommended Cutting Conditions : p.191

A 2 Corners	Positive		ADKT	ADKT 1505	p. 121
			AOMT	AOMT 1236	p. 121
			APGT	APGT 1003, 1604	p. 122
			APKT	APKT 1003, 1604	p. 123
			APMT	APMT 1135, 1504, 1604	p. 124
E 4 Corners	Negative		ENMX	ENMX 0402 NEW ENMX 0604 ENMX 0905	p. 125
L 4 Corners	Tangential Milling Negative		LNKH / LNKU NEW	LNKH 1306 LNKH 1306	p. 127
O Octagon	Positive		ODMT / ODMW	ODMT / ODMW 0605	p. 128
			OFER	OFER 0704	p. 129
			OFMT	OFMT 05T3	
O Octagon	Negative		ONMU / ONHU	ONMU / ONHU 0806	p. 130
P 10 Corners	Negative		PNMU	PNMU1206	p. 131
R Round	Positive Round		RDKT / RDKW	RDKT 0802, 10T3, 1204, 1604 RDKW 0501, 0702, 0802, 10T3, 1204	p. 132
			RDMT / RDMW	RDMT 0802, 0803, 10T3, 1204 RDMW 0802, 10T3, 1204	p. 133
			RPMX / ROHX NEW	RPMX 0803, 10T3, 1204 ROHX 1204	p. 134
			RPMT / RPMW	RPMT 08T2, 10T3, 1204 RPMW 1003, 1204	p. 135
S Square	High Feed		SDMT / SDMW	SDMT 1204, SDMW 1204	p. 137
	Positive		SDCN (45°) / SDKN	SDKN, SDCN 1203, 1504	p. 136
			SEGT	SEGT12T3, 1204	p. 138
			SEKR (45°) / SEKN	SEKR, SEKN 1203	p. 141
			SEKT	SEKT 12T3, 1204	p. 139
			SEMT	SEMT1204, 13T3	p. 140
			SPMT	SPMT 1204	p. 145
	Negative		SNGX NEW	SNGX1206	p. 142
			SNMX	SNMX1206	p. 143
	ISO		SPCN(75°) / SPKN / SPKR'	SPKN 1203, 1504 SPKR 1203 SPCN 1203, 1504	p. 144
T Triangle	Positive 3 Corners		TPCT NEW	TPCT 0703, 1104, 1605	p. 147
			TPKT	TPKT 0703, 1104, TPKT 1605	p. 148
	ISO		TPCN(90°) / TPKN / TPKR	TPKN 1603, 2204 TPKR 1603, 2204 TPCN 2204	p. 149
			TPUN	TPUN 1603	p. 150
W Trigon	Negative 6 Corners		WNEX	WNEX 0403, 0806 NEW	p. 151

Milling - Shoulder Milling - Inserts

ADKT / AOMT - Shoulder Milling Positive (2 Corners)

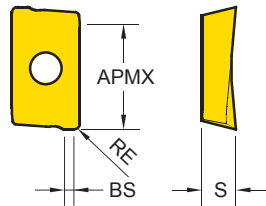


Series	APMX	IC	S
ADKT 1505	.551	.382	.228
AOMT 1236	.433	.260	.142

EDP 1200.. ●: Stock item ○: Order made item

ADKT		Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG904
ADKT General 	ADKT 150508 PDTR	.031	.002 ~ .009	.074	.551	● 0913					● 1053	● 0220					
	ADKT 150516 PDTR	.063	.002 ~ .009	.068	.551	● 0916						● 0755					
	ADKT 150524 PDTR	.094	.002 ~ .009	.047	.551	● 0917						● 0756					
	ADKT 150532 PDTR	.126	.002 ~ .009	.012	.551	● 0918						● 0757					

AOMT		Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG904
AOMT General 	AOMT 123604 PDTR	.016	.002 ~ .006	.042	.433							● 0217					
	AOMT 123608 PDTR	.031	.002 ~ .006	.036	.433	○ 0912						● 0218	● 0613				

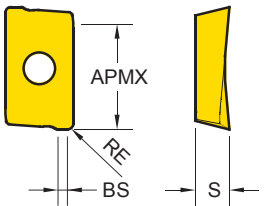


Series	APMX	IC	S
APGT 1003	.354	.264	.142
APGT 1604	.551	.370	.209

EDP 1200.. ●: Stock item ○: Order made item

H20	P15	P25	P30	P30	P30	P40	M40	K10	K15	N15
P20			K30	M30 S30	M30	M40 S40	S40			

APGT	Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG50
-AL Aluminium	APGT 100305 - AL	.020	.002 ~ .010	.055	.354											● 0730
	APGT 160408 - AL	.031	.002 ~ .010	.067	.551											● 0428
	APGT 160430 - AL	.118	.002 ~ .010	.008	.551											● 0798



Series	APMX	IC	S
APKT 1003	.354	.264	.142
APKT 1604	.551	.370	.209

EDP 1200.. ●: Stock item ○: Order made item

H20	P15	P25	P30	P30	P30	P40	M40	K10	K15	S40
P20			K30	M30 S30	M30	M40 S40	S40			

APKT	Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG904
APKT General	APKT 100305 PDTR	.020	.002 ~ .009	.034	.354	● 0749		○ 0638	● 0429	● 0818	● 0005	● 0672	● 1254			● 1183
	APKT 100308 PDTR	.031	.002 ~ .009	.035	.354	● 0750		○ 0632	● 0430	● 0819	● 0004	● 0610	● 1256			
	APKT 100316 PDTR	.063	.002 ~ .009	.041	.354				● 0975	● 0713	● 0071	● 0714				
	APKT 160404 PDTR	.016	.002 ~ .010	.044	.551			○ 0656	● 0828	● 0003	● 0673					
	APKT 160408 PDTR	.031	.002 ~ .010	.052	.551	● 0797		○ 0633	○ 0767	● 0820	● 0001	● 0607	● 1257		● 0796	● 1180
	APKT 160412 PDTR	.047	.002 ~ .010	.044	.551			● 0649	● 0980	● 0002						
	APKT 160416 PDTR	.063	.002 ~ .010	.044	.551			● 0661	● 0979	● 0006	● 1013					
	APKT 160424 PDTR	.094	.002 ~ .010	.047	.551			● 0653	● 0836	● 0255	● 1014					
-ST Stainless Steel Super Alloy	APKT 160432 PDTR	.126	.002 ~ .010	.016	.551	● 0870			● 0977	● 0738						
	APKT 100305 - ST	.02	.002 ~ .005	.034	.354					● 0834	● 0278	● 0618	● 1255			● 1182
	APKT 100312 - ST	.047	.002 ~ .005	.052	.354					● 0981		● 0776				
	APKT 100316 - ST	.063	.002 ~ .005	.041	.354					● 0982		● 0719				
-TR Hardened Steel	APKT 160408 - ST	.031	.002 ~ .005	.052	.551					● 0835	● 0270	● 0617	● 1258			● 1181
	APKT 160404 - TR	.016	.002 ~ .016	.083	.551			○ 0505	● 0970	● 0492						
	APKT 160408 - TR	.031	.002 ~ .016	.052	.551	● 0746	● 0471	● 0637	● 0337	● 0821	● 0256					
	APKT 160412 - TR	.047	.002 ~ .016	.094	.551	● 0914			● 0523	● 0829	● 0493					
	APKT 160416 - TR	.063	.002 ~ .016	.094	.551	● 0747			○ 0524	● 0969	● 0472					
	APKT 160424 - TR	.094	.002 ~ .016	.059	.551	● 0748			○ 0520	● 0971	● 0494					

Milling - Shoulder Milling - Inserts
APMT - Shoulder Milling Positive (2 Corners)

<APMT>

<APMT 1504>

Series	APMX	IC	S
APMT 1135	.354	.224	.138
APMT 1604	.551	.362	.187
APMT 1504	-	.500	.187

EDP 1200.. ●: Stock item ○: Order made item

H20	P15	P25	P30	P30	P30	P40	M40	K10	K15	S40
P20			K30	M30	M30	M40	S40			

APMT	Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG904
APMT General	APMT 113504 PDTR	.016	.002 ~ .009	.050	.354	● 0752		● 0655	● 0400	● 0940	● 0009	● 0669				
	APMT 113508 PDTR	.031	.002 ~ .009	.042	.354			● 0654		● 0941	● 0010	● 0668				
	APMT 160408 PDTR	.031	.002 ~ .009	.044	.551	● 0751	● 0423	● 0642	● 0399	● 0939	● 0008	● 0663	● 1259		● 0464	
1504 APMT General	APMT 1504	-	.002 ~ .009	-						● 0445	● 0838	● 0276	● 0777			

Milling - High Feed Milling - Inserts
ENMX - High Feed Negative (4 Corners)

Series	IC	S
ENMX 0402	.157	.093
ENMX 0604	.248	.166
ENMX 0905	.354	.213

EDP 1200.. ●: Stock item ○: Order made item

H20	P15	P25	P30	P30	P30	P40	M40	K10	K15	S40
P20			K30	M30	M30	M40	S40			

ENMX	Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG904
ENMX General	ENMX 0604	.031	.012 ~ .079	-	.039	● 0734				● 0822	● 0474	● 0606	● 1260			● 1186
	ENMX 0905	.039	.012 ~ .098	-	.059	● 0736				● 0824	● 0702	● 0703	● 1262			
- ST Stainless Steel	ENMX 0402 - ST	.020	.008 ~ .031	-	.020					● 1064		● 1065				
	ENMX 0604 - ST	.031	.004 ~ .031	-	.039					● 0973	● 0623	● 0625	● 1261			● 1184
	ENMX 0905 - ST	.039	.008 ~ .047	-	.059					● 0974	● 0705	● 0706	● 1263			● 1187
- TR Hardened Steel	ENMX 0402 - TR	.020	.008 ~ .051	-	.020	● 1060	● 1062			● 1059		● 1061				
	ENMX 0604 - TR	.031	.012 ~ .098	-	.039	● 0733	● 0504	○ 0636		● 0823	● 0459					● 1185
	ENMX 0905 - TR	.039	.012 ~ .118	-	.059	● 0735				● 0825	● 0600	● 0874				

ENMX - High Feed Negative (4 Corners) **Technical Information**

ENMX 0402

APMXR	RP	Overcut	UTCN
Radial AP Max	Programmed Corner R		Uncut Thickness
.094	.031	.010	0
	.035	.009	0
	.039	.007	.0004

General

Plunging

Ramping

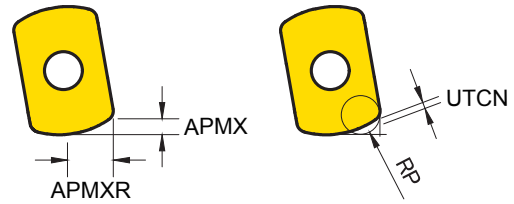
Profiling

Helical Interpolation

Enlarge Hole

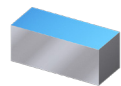
DCX	APMX	APMXR	RMPX	RP	UTCN	Diameter	Pitch	Diameter	Pitch	Ae
External Cutter Diameter	Maximum Depth of Cut	Maximum Radial Depth of Cut	Maximum Ramping Angle(°)	Programmed Corner Radius	Uncut Thickness	Maximum Cutting Diameter	Helical Interpolation Pitch	Minimum Cutting Diameter	Helical Interpolation Pitch	Enlarge Width
.375	.020	.094	0.8°	.035	.009	.750	.016	.553	.008	.281
.455	.020	.094	0.7°	.035	.009	.910	.017	.705	.009	.361
.500	.020	.094	0.7°	.035	.009	1.000	.020	.764	.017	.406
.580	.020	.094	0.9°	.035	.009	1.160	.020	.916	.020	.486
.625	.020	.094	1.2°	.035	.009	1.250	.020	1.002	.020	.531
.705	.020	.094	1.0°	.035	.009	1.410	.020	1.158	.020	.611
.730	.020	.094	0.8°	.035	.009	1.460	.020	1.208	.020	.636
.750	.020	.094	1.0°	.035	.009	1.500	.020	1.248	.020	.656
1.000	.020	.094	0.7°	.035	.009	2.000	.020	1.740	.020	.906
1.125	.020	.094	0.6°	.035	.009	2.250	.020	1.990	.020	1.031
1.250	.020	.094	0.5°	.035	.009	2.500	.020	2.240	.020	1.156
1.375	.020	.094	0.4°	.035	.009	2.750	.020	2.490	.020	1.281

ENMX 0604



Unit: inch

RP Programmed Corner R	Overcut	UTCN Uncut Thickness
.079	.000	.012
.098	.007	.007
.118	.014	.003



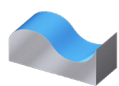
General



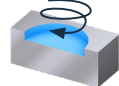
Plunging



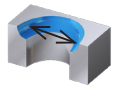
Ramping



Profiling



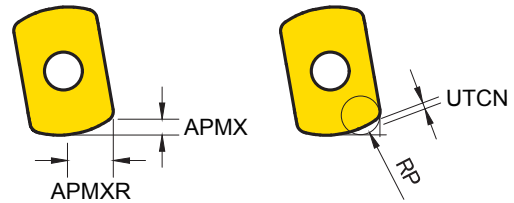
Helical Interpolation



Enlarge Hole

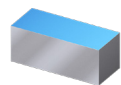
DCX External Cutter Diameter	APMX Maximum Depth of Cut	APMXR Maximum Radial Depth of Cut	RMPX Maximum Ramping Angle(°)	RP Programmed Corner Radius	UTCN Uncut Thickness	Diameter Minimum Cutting Diameter	Diameter Maximum Cutting Diameter	Pitch Helical Interpolation Pitch	Ae Enlarge Width
.625	.035	.137	3.4°	R.079	.011	.817	1.171	.035	.487
.750	.039	.145	2.0°	R.079	.012	1.067	1.421	.039	.612
1.00	.039	.145	1.2°	R.079	.012	1.567	1.921	.039	.862
1.25	.039	.145	0.9°	R.079	.012	2.067	2.421	.039	1.112
1.50	.039	.145	0.7°	R.079	.012	2.567	2.921	.039	1.362
2.00	.039	.145	0.5°	R.079	.012	3.567	3.921	.039	1.862
3.00	.039	.145	0.3°	R.079	.012	5.567	5.922	.039	2.862

ENMX 0905



Unit: inch

RP Programmed Corner R	Overcut	UTCN Uncut Thickness
.098	.000	.022
.118	.004	.015
.137	.010	.009
.157	.016	.004
.177	.019	.000



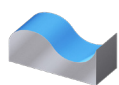
General



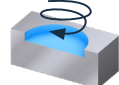
Plunging



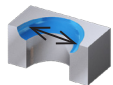
Ramping



Profiling

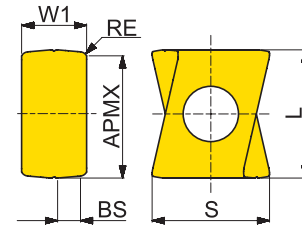


Helical Interpolation



Enlarge Hole

DCX External Cutter Diameter	APMX Maximum Depth of Cut	APMXR Maximum Radial Depth of Cut	RMPX Maximum Ramping Angle(°)	RP Programmed Corner Radius	UTCN Uncut Thickness	Diameter Minimum Cutting Diameter	Diameter Maximum Cutting Diameter	Pitch Helical Interpolation Pitch	Ae Enlarge Width
1.0	.059	.185	3.8°	R.098	.022	1.685	1.921	.059	.803
1.25	.059	.185	2.4°	R.098	.022	2.185	2.421	.059	1.053
1.5	.059	.185	1.7°	R.098	.022	2.685	2.921	.059	1.303
2.0	.059	.185	1.1°	R.098	.022	3.685	3.921	.059	1.803
2.5	.059	.185	0.8°	R.098	.022	4.685	4.921	.059	2.303
3.0	.059	.185	0.7°	R.098	.022	5.685	5.921	.059	2.803
4.0	.059	.185	0.4°	R.098	.022	7.685	7.921	.059	3.803
6.0	.059	.185	0.3°	R.098	.022	11.685	11.921	.059	5.803



Series	APMX	IC	S
LNHU1306	.472	.264	.476

EDP 1200.. ●: Stock item ○: Order made item

H20	P15	P25	P30	P30	P30	P40	M40	M40	K10	K15	S40
P20			K30	M30	M30	M40	S40				
YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG904	
● 0905				● 0723	● 0640	● 0724		● 0725			

LNHU	Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)
NEW LNHU General	LNHU130608R	.031	.002 ~ .012	.082	.472

LNKU	Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)
NEW LNKU General	LNKU130604R	.016	.002 ~ .012	.094	.472
	LNKU130608R	.031	.002 ~ .012	.082	.472
	LNKU130612R	.047	.002 ~ .012	.068	.472
	LNKU130616R	.063	.002 ~ .012	.063	.472

ODMT, ODMW - Face Milling Positive (8 Corners)



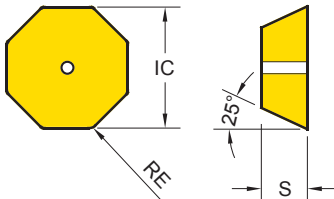
Series	IC	S
ODM* 0605	.626	.220

EDP 1200.. ●: Stock item ○: Order made item

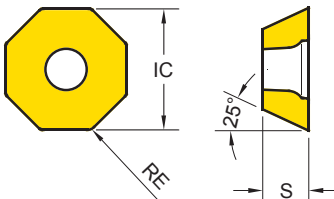
H20	P15	P25	P30	P30	P30	P40	M40	K10	K15	S40
P20			K30	M30	M30	M40	S40			
YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG904
● 1056	● 0513	● 0659		● 0830	● 0030	● 0675	● 1268			

OFER, OFMT - Face Milling Positive (8 Corners)

		Series		IC	S
		OFER 0704		.771	.188
		OFMT 05T3		.501	.160



<OFER>



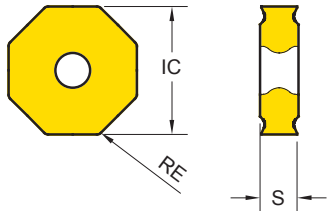
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EDP 1200.. ●: Stock item ○: Order made item

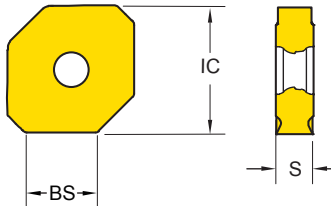
	H20	P15	P25	P30	P30	P30	P40	M40		K10	K15	S40
	P20			K30	M30	M30	M40	S40				

ONHU / ONMU - Face Milling Negative (16 Corners)

						Series		IC	S
						ON*U 0806		.795	.228



<ONMU>



<ONHU>

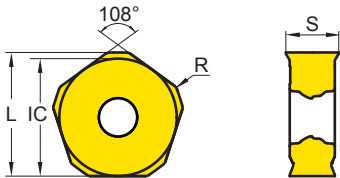
EDP 1200.. ●: Stock item ○: Order made item

	Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)	H20	P15	P25	P30	P30	P30	P40	M40	K10	K15	S40
						P20			K30	M30	M30	M40	S40			
ONMU ONHU	ONHU 080612	.047	.003 ~ .010	.417	.217	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG904
										● 0899				● 0482	● 0496	
ONMU Wiper Insert 	ONMU 080608	.031	.002 ~ .014	-	.217	● 0904	● 0609	○ 0657		● 0960	● 0233	● 0670	● 1270	● 0414		
	ONMU 080612	.047	.002 ~ .014	-	.217					● 0898		● 0615	● 1271	● 0542	● 0871	
	ONMU 080620	.079	.002 ~ .014	-	.217								● 1272	● 0707		

* Wiper Insert can use 4 corners for right handed cutter and 4 corners for left handed cutter

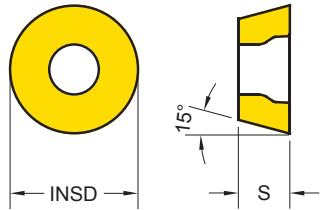
PNMU - Face Milling Negative (10 Corners)

		Series	KRINS	IC	S
		PNMU 1206	36°	.551	.230



EDP 1200.. ●: Stock item ○: Order made item

PNMU	Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)	H20	P15	P25	P30	P30	P30	P40	M40	K10	K15	S40
						P20			K30	M30 S30	M30	M40 S40	S40			
 General	PNMU 1206ZNN	.031	.002 ~ .020	.083	.157	● YG012 0753	● YG712 0596	● YG713 0645	YG622	● YG612 0826	● YG602 0535	● YG613 0671	● YG614 1273	● YG5020 0534	● YG501 0538	YG904
 - ST Stainless Steel Super Alloy	PNMU 1206-ST	.031	.002 ~ .012	.083	.157					○ YG612 0753	○ YG602 0596	○ YG613 0645				

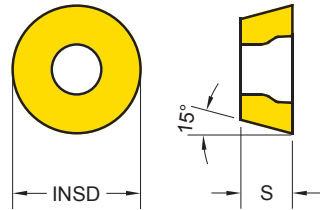


Series	INSD	S	Series	INSD	S
RDK* 0501	.197	.055	RDK* 10T3	.394	.157
RDK* 0702	.276	.094	RDK* 1204	.472	.189
RDK* 0802	.315	.094	RDK*1604	.630	.187

EDP 1200.. ●: Stock item ○: Order made item

H20	P15	P25	P30	P30	P30	P40	M40	K10	K15	S40
P20			K30	M30	M30	M40	S40			

RDKT RDKW	Designation	Fz (in/tooth)	APMX (in)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG904
RDKT General	RDKT 0802M0	.002 ~ .010	.157					● 0943	● 0035					
	RDKT 10T3M0	.002 ~ .012	.197			● 0651		● 0948	● 0041					
	RDKT 1204M0	.002 ~ .020	.236			● 0635		● 0938	● 0034	● 0678				
	RDKT 1604M0	.002 ~ .020	.315	● 0915				● 0972	● 0539					
-ST Stainless Steel Super Alloy	RDKT 0802M0 - ST	.002 ~ .006	.157					● 0965	● 0292					
	RDKT 10T3M0 - ST	.002 ~ .008	.197					● 0966	● 0293	● 0620				
	RDKT 1204M0 - ST	.002 ~ .012	.236					● 0967	● 0294	● 0621				
-TR Hardened Steel	RDKT 0802M0 - TR	.002 ~ .014	.157	● 0745			● 0339	● 0837	● 0284					
	RDKT 10T3M0 - TR	.002 ~ .016	.197	● 0744			● 0338	● 0841	● 0285					
	RDKT 1204M0 - TR	.002 ~ .024	.236	● 0743		● 0650	● 0340	● 0842	● 0272					
RDKW Hard Materials	RDKW 0501M0	.002 ~ .008	.098				● 0412	● 0843	● 0207	● 1274				
	RDKW 0702M0	.002 ~ .010	.138			● 0652	● 0439	● 0844	● 0208	● 1275				
	RDKW 0802M0	.002 ~ .012	.157	● 0909			● 0440	● 0950	● 0043					
	RDKW 10T3M0	.002 ~ .016	.197	● 0908		○ 0647	● 0441	● 0947	● 0040					
	RDKW 1204M0	.002 ~ .024	.236			○ 0647	● 0442	● 0949	● 0042					
	RDKW 1604M0	.002 ~ .024	.315	● 0817				● 0720						



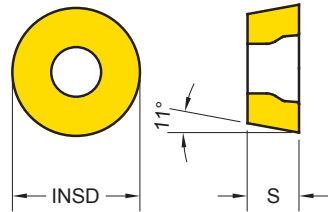
Series	INSD	S	Series	INSD	S
RDM* 0602	.236	.094	RDM* 10T3	.394	.156
RDM* 0802	.315	.094	RDM* 1204	.472	.187
RDM* 0803	.315	.125			

EDP 1200.. ●: Stock item ○: Order made item

H20	P15	P25	P30	P30	P30	P40	M40	K10	K15	S40
P20			K30	M30	M30	M40	S40			

RDMT RDMW	Designation	Fz (in/tooth)	APMX (in)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG904
RDMT General	RDMT 0602M0	.002 ~ .008	.118					● 0693						
	RDMT 0802M0	.002 ~ .010	.157					● 0245		● 1276				
	RDMT 0803M0	.002 ~ .010	.157					● 0225						
	RDMT 10T3M0	.002 ~ .012	.197					● 0246		● 1277				
	RDMT 1204M0	.002 ~ .020	.236				● 0845	● 0226						
RDMW Hard Materials	RDMW 0802M0	.002 ~ .012	.157					● 0227		● 1278				
	RDMW 10T3M0	.002 ~ .016	.197					● 0228		● 1279				
	RDMW 1204M0	.002 ~ .024	.236					● 0229						

RPMX / ROHX - Profiling Positive (Round)



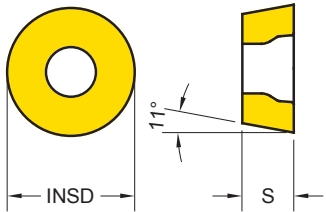
Series	INSD	S	Series	INSD	S
RPM* 0803	.315	.125	RPM* 1204	.472	.187
RPM* 10T3	.394	.156	ROHX 1204	.472	.187

EDP 1200.. ●: Stock item ○: Order made item

H20	P15	P25	P30	P30	P30	P40	M40	K10	K15	S40
P20			K30	M30	M30	M40	S40			

RPMX ROHX	Designation	Fz (in/tooth)	APMX (in)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG904
NEW -XSF	RPMX 0803M0 - XSF	.002 ~ .004	.157											● 1192
	RPMX 10T3M0 - XSF	.002 ~ .004	.197											● 1191
	RPMX 1204M0 - XSF	.002 ~ .004	.236											● 1189
NEW -XSM	RPMX 0803M0 - XSM	.002 ~ .005	.157											● 1193
	RPMX 10T3M0 - XSM	.002 ~ .005	.197											● 1190
	RPMX 1204M0 - XSM	.002 ~ .005	.236											● 1188
NEW ROHX General	ROHX 1204M0	.002 ~ .006	.236								○ 1280			

RPMT / W - Profiling Positive (Round)

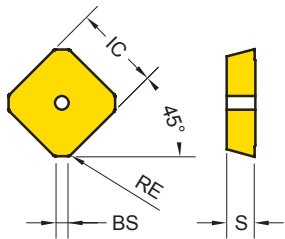


Series	INSD	S	Series	INSD	S
RPM* 08T2	.315	.109	RPM* 10T3	.394	.156
RPM* 1003	.394	.125	RPM* 1204	.472	.187
			RPM* 1606	.630	.250

EDP 1200.. ●: Stock item ○: Order made item

H20	P15	P25	P30	P30	P30	P40	M40	K10	K15	S40
P20			K30	M30	M30	M40	S40			

RPMT RPMW	Designation	Fz (in/tooth)	APMX (in)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG904
RPMT General	RPMT 08T2M0	.002 ~ .010	.157		● 0660			● 0945	● 0038	● 0676				
	RPMT 10T3M0	.002 ~ .012	.197		● 0644	○ 0643	○ 0401	● 0944	● 0036	● 0665				
	RPMT 1204M0	.002 ~ .020	.236	● 0415	● 0643	○ 0401	● 0831	● 0037	● 0664	● 1281			● 0462	
	RPMT 1606M0	.002 ~ .024	.315							● 0923				
-ST Stainless Steel Super Alloy	RPMT 1204M0 - ST	.002 ~ .012	.236					● 0958	● 0230	● 0667	● 1282			
-TR Hardened Steel	RPMT 1204M0 - TR	.002 ~ .022	.236					● 0968						
RPMW Hard Materials	RPMW 1003M0	.002 ~ .016	.197	● 0911	○ 0646	○ 0402	● 0957	● 0204						
	RPMW 1204M0	.002 ~ .024	.236		○ 0648		● 0946	● 0039						



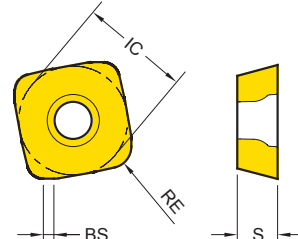
Series	AS	IC	S
SD** 42	15°	.500	.125
SD** 53	15°	.625	.187

EDP 1200.. ●: Stock item ○: Order made item

H20	P15	P25	P30	P30	P30	P40	M40	K10	K15	S40
P20			K30	M30	M30	M40	S40			

SDCN SDKN	Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG904
SDCN Ground insert	SDCN 42 AESN - M	.039	.002 ~ .008	.080	.236	●	○									
	SDCN 53 AESN - M	.039	.002 ~ .008	.086	.315	●	○									
	SDCN 53 AESN - MR	.039	.002 ~ .008	.086	.315	●	○									
SDKN Hard Materials	SDKN 42 AETN	.020	.002 ~ .012	.073	.236				●	●						
	SDKN 42 AETN - PW	.016	.002 ~ .012	.078	.236				●	●						
	SDKN 42 AETN - GW	.051	.002 ~ .012	.073	.236				●	●						
	SDKN 42 AESN - GW	.051	.002 ~ .012	.073	.236	●										
	SDKN 53 AETN	.018	.002 ~ .012	.079	.315				●	●						
	SDKN 53 AETN - PW	.016	.002 ~ .012	.077	.315				●	●						
	SDKN 53 AETN - GW	.051	.002 ~ .012	.081	.315				●	●						

- PW : For Improved Surface Roughness
- GW : Ground Wiper
- M : For Mold & Die
- MR : For Mold & Die Roughing



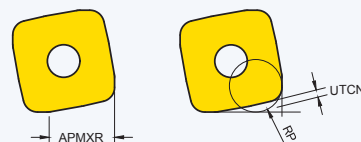
Series	IC	S
SDM* 1204	.500	.185

EDP 1200.. ●: Stock item ○: Order made item

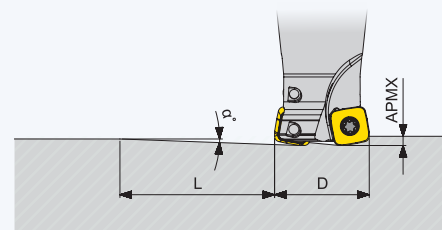
H20	P15	P25	P30	P30	P30	P40	M40	K10	K15	S40
P20			K30	M30	M30	M40	S40			

SDMT SDMW	Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG904
-ST Stainless Steel Super Alloy	SDMT 120420 - ST	.075	.024 ~ .047	.057	.071				●	●	●					
									●	●	●					
SDMW Hard Materials	SDMW 120420	.075	.024 ~ .055	.055	.071	●	○	○	●	●	●					
						●	○	○	●	●	●					

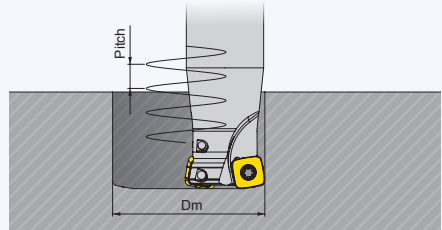
Technical Information



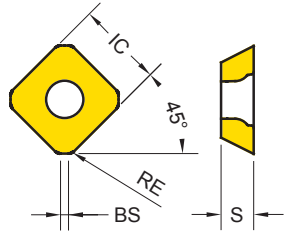
APMXR Radial AP Max	RP Programmed Corner R	UTCN Uncut Thickness
.339	.138	.94



Linear Ramping Data				
	D	α°	APMX	L (cutting length)
Metric	32	2.1	1.8	49
	33	2.0	1.8	52
	35	1.6	1.8	64
	40	2.7	1.8	38
	50	2.0	1.8	52
	63	1.4	1.8	74
	80	1.0	1.8	103
	100	0.8	1.8	129
	125	0.6	1.8	172
	160	0.4	1.8	258
Inch	1.25	2.4	.071	.067
	1.5	3.1	.071	.052
	2.0	2.0	.071	.080
	2.5	1.4	.071	.114
	3.0	1.1	.071	.145
	4.0	0.8	.071	.200
	5.0	0.6	.071	.266
	6.0	0.5	.071	.320



Helical Interpolation Data				
	D	Dm (max)	Pitch	Dm (minimum)
Metric	32	64	1.8	54
	33	66	1.8	56
	35	70	1.8	59
	40	80	1.8	69
	50	100	1.8	89
	63	126	1.8	115
	80	160	1.8	149
	100	200	1.8	189
	125	250	1.8	239
	160	320	1.8	309
Inch	1.25	2.5	.071	2.1
	1.5	3	.071	2.6
	2.0	4	.071	3.6
	2.5	5	.071	4.6
	3.0	6	.071	5.6
	4.0	8	.071	7.6
	5.0	10	.071	9.6
	6.0	12	.071	11.6



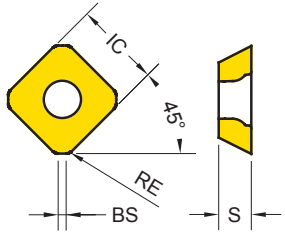
Series	IC	S
SEGT 1204	.502	.193
SEGT 12T3	.528	.159

EDP 1200.. ●: Stock item ○: Order made item

H20	P15	P25	P30	P30	P30	P40	M40	K10	K15	N15
P20			K30	M30	M30	M40	S40			

SEGT 1204	Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG50
-AL Aluminium	SEGT 1204 - AL	.047	.002 ~ .012	.079	.236											● 0467

SEGT 12T3	Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG50
-AL Aluminium	SEGT 12T3 - AL	.047	.002 ~ .012	.076	.236											○ 0468



Series	IC	S
SEKT 1204	.500	.193
SEKT 12T3	.528	.157

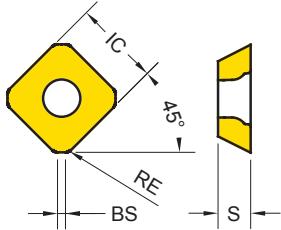
EDP 1200.. ●: Stock item ○: Order made item

H20	P15	P25	P30	P30	P30	P40	M40	K10	K15	S40
P20			K30	M30	M30	M40	S40			

SEKT 1204	Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG904
SEKT 1204 General	SEKT 1204 AFTN	.043	.008 ~ .014	.046	.236				● 0416	● 0833	● 0055					
-ST Stainless Steel Super Alloy	SEKT 1204 - ST	.043	.003 ~ .012	.079	.236				● 0962	● 0257	● 0722					

SEKT 12T3	Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG904
SEKT 12T3 General	SEKT 12T3 AGTN	.059	.002 ~ .009	.051	.236				● 0953	● 0056						
-ST Stainless Steel Super Alloy	SEKT 12T3 - ST	.059	.002 ~ .005	.079	.236				● 0963	● 0271	● 0689					

Milling - Face Milling - Inserts
SEMT - Face Milling Positive (4 Corners)



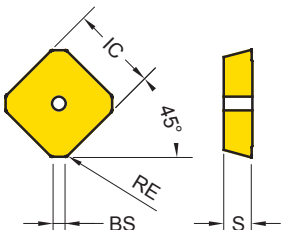
Series	IC	S
SEMT1204	.509	.201
SEMT13T3	.528	.157

EDP 1200.. ●: Stock item ○: Order made item

H20	P15	P25	P30	P30	P30	P40	M40				
P20			K30	M30	M30	M40	S40	S40	K10	K15	S40

SEMT	Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG904
SEMT 1204 General	SEMT 1204 AFTN	.047	.002 ~ .009	.049	.236						● 0052					
13T3 SEMT General	SEMT 13T3 AGSN	.059	.002 ~ .009	.052	.236						● 0203					

Milling - Face Milling - Inserts
SEKR / N - Face Milling Positive (4 Corners ISO)



Series	AS	IC	S
SEK* 42	20°	.500	.126

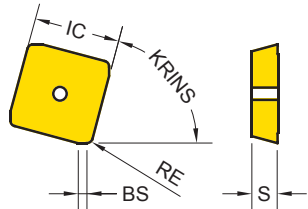
EDP 1200.. ●: Stock item ○: Order made item

H20	P15	P25	P30	P30	P30	P40	M40				
P20			K30	M30	M30	M40	S40	S40	K10	K15	S40

SEKR SEKN	Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG904
SEKR General	SEKR 42 AFTN	.016	.002 ~ .009	.055	.236					● 0832	● 0051					
	SEKR 42 AFTN - PW	.016	.002 ~ .009	.079	.236						● 0296					
SEKN Hard Materials	SEKN 42 AFTN	.016	.002 ~ .012	.055	.236					● 0952	● 0054					
	SEKN 42 AFTN - GW	.016	.002 ~ .013	.079	.236	● 0774				● 0304						
	SEKN 42 AFTN - PW	.016	.002 ~ .013	.079	.236					● 0297						

- PW : For Improved Surface Roughness
- GW : Ground Wiper

SPCN, SPKN / R - Face Milling Positive (4 Corners ISO)



Series	KRINS	AS	IC	S
SP** 42	75°	11°	.500	.125
SP** 53	75°	11°	.625	.187

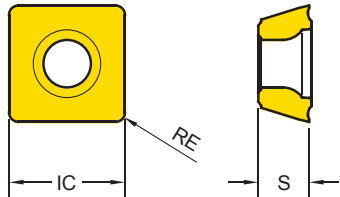
EDP 1200.. ●: Stock item ○: Order made item

H20	P15	P25	P30	P30	P30	P40	M40	K10	K15	S40
P20	K30	M30	M30	M40	S40	S40	S40	S40	S40	S40

SPCN SPKN SPKR	Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG904
SPCN Ground insert	SPCN 42 EDSR - M	.031	.004 ~ .008	.072	.315	●	●									
	SPCN 42 EDSR - MR	.031	.004 ~ .008	.070	.315	●	●									
	SPCN 53 EDSR - M	.031	.004 ~ .008	.076	.472	●	●									
	SPCN 53 EDSR - MR	.031	.004 ~ .008	.073	.472	●	●									
SPKN Hard Materials	SPKN 42 EDTR	.031	.002 ~ .012	.055	.315	○				●	●					
	SPKN 42 EDTR - GW	.024	.002 ~ .015	.059	.315					●	●					
	SPKN 42 EDTR - PW	.031	.002 ~ .015	.059	.315					●	●					
	SPKN 53 EDTR	.031	.002 ~ .009	.051	.472	●				●	●					
	SPKN 53 EDTR - GW	.031	.002 ~ .015	.087	.472					●	●					
	SPKN 53 EDTR - PW	.031	.002 ~ .015	.084	.472					●	●					
SPKR General	SPKR 42 EDTR	.031	.002 ~ .009	.055	.315					●	●					
	SPKR 42 EDTR - PW	.031	.002 ~ .004	.061	.315					●	●					

- PW : For Improved Surface Roughness
- GW : Ground Wiper
- M : For Mold & Die
- MR : For Mold & Die Roughing

SPMT - Universal Positive (4 Corners)



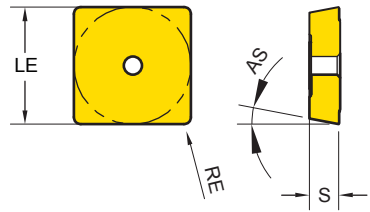
Series	AS	IC	S
SPMT 1204	11°	.500	.189

EDP 1200.. ●: Stock item ○: Order made item

H20	P15	P25	P30	P30	P30	P40	M40	K10	K15	S40
P20	K30	M30	M30	M40	S40	S40	S40	S40	S40	S40

SPMT	Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG904
SPMT General	SPMT 120408	.031	.002 ~ .009	-	.394	●				●	●	●				
						○										

Milling - Face Milling - Inserts
SPUN - Universal Positive (4 Corners ISO)



Series	AS	IC	S
SPUN 42	11°	.500	.126

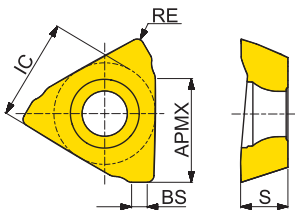
EDP 1200.. ●: Stock item ○: Order made item

H20	P15	P25	P30	P30	P30	P40	M40	K10	K15	S40
P20			K30	M30 S30	M30	M40 S40	S40			

SPUN	Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG904
General	SPUN 422	.031	.002 ~ .011								● 0224					

Refer to
Milling Cutter
p. 164 - 167

Milling - Shoulder Milling - Inserts
TPCT - Shoulder Milling Positive (3 Corners)



Series	APMX	IC	S
TPCT 0703	.177	.217	.115
TPCT 1104	.276	.297	.169
TPCT 1605	.433	.459	.212

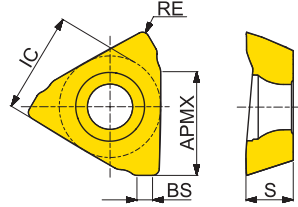
EDP 1200.. ●: Stock item ○: Order made item

H20	P15	P25	P30	P30	P30	P40	M40	K10	K15	N15
P20			K30	M30 S30	M30	M40 S40	S40			

TPCT	Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG50
NEW -AL Aluminium	TPCT 070302R - AL	.008	.002 ~ .008	.053	.177											● 1008
	TPCT 070304R - AL	.016	.002 ~ .008	.045	.177											● 1009
	TPCT 070308R - AL	.031	.002 ~ .008	.030	.177											● 1011
	TPCT 110404R - AL	.016	.002 ~ .010	.059	.276											● 0894
	TPCT 110408R - AL	.031	.002 ~ .010	.043	.276											● 0895
	TPCT 160504R - AL	.016	.002 ~ .020	.094	.433											● 0896
	TPCT 160508R - AL	.031	.002 ~ .020	.075	.433											● 0897

Milling - Shoulder Milling - Inserts
TPKT - Shoulder Milling Positive (3 Corners)

Refer to
Milling Cutter
p. 164 - 167



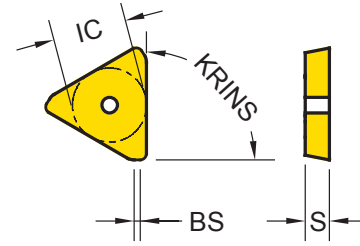
Series	APMX	IC	S
TPKT 0703	.177	.217	.115
TPKT 1104	.276	.297	.169
TPKT 1605	.433	.459	.212

EDP 1200.. ●: Stock item ○: Order made item

H20	P15	P25	P30	P30	P30	P40	M40	M40	K10	K15	S40
P20			K30	M30	M30	M40	S40	S40			

TPKT	Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG904
TPKT General	TPKT 070302R - GN	.008	.002 ~ .008	.039	.177	●	●			●	●	●	●	●	●	●
	TPKT 070304R - GN	.016	.002 ~ .008	.035	.177	●	●			●	●	●	●	●	●	●
	TPKT 070308R - GN	.031	.002 ~ .008	.020	.177	●	●			●	●	●	●	●	●	●
	TPKT 110404R - GN	.016	.002 ~ .009	.063	.276	●	●			●	●	●	●	●	●	●
	TPKT 110408R - GN	.031	.002 ~ .009	.045	.276	●	●			●	●	●	●	●	●	●
	TPKT 110412R - GN	.047	.002 ~ .009	.031	.276	●	●			●	●	●	●	●	●	●
	TPKT 110416R - GN	.063	.002 ~ .009	.024	.256	●	●			●	●	●	●	●	●	●
	TPKT 110420R - GN	.079	.002 ~ .009	.005	.256	●	●			●	●	●	●	●	●	●
	TPKT 160504R - GN	.016	.002 ~ .011	.087	.433	●	●			●	●	●	●	●	●	●
	TPKT 160508R - GN	.031	.002 ~ .011	.070	.433	●	●			●	●	●	●	●	●	●
	TPKT 160512R - GN	.047	.002 ~ .011	.050	.433	●	●			●	●	●	●	●	●	●
	TPKT 160516R - GN	.063	.002 ~ .011	.047	.433	●	●			●	●	●	●	●	●	●
	TPKT 160520R - GN	.079	.002 ~ .011	.031	.433	●	●			●	●	●	●	●	●	●
	TPKT 160524R - GN	.094	.002 ~ .011	.028	.433	●	●			●	●	●	●	●	●	●
	TPKT 070302R - ST	.008	.002 ~ .005	.039	.177					●	●	●	●	●	●	●
-ST Stainless Steel Super Alloy	TPKT 070304R - ST	.016	.002 ~ .005	.035	.177					●	●	●	●	●	●	●
	TPKT 070308R - ST	.031	.002 ~ .005	.020	.177					●	●	●	●	●	●	●
	TPKT 110404R - ST	.016	.002 ~ .006	.063	.276					●	●	●	●	●	●	●
	TPKT 110408R - ST	.031	.002 ~ .006	.045	.276					●	●	●	●	●	●	●
	TPKT 110412R - ST	.047	.002 ~ .006	.031	.276					●	●	●	●	●	●	●
	TPKT 160504R - ST	.016	.002 ~ .006	.087	.433					●	●	●	●	●	●	●
	TPKT 160508R - ST	.031	.002 ~ .006	.070	.433					●	●	●	●	●	●	●
	TPKT 160512R - ST	.047	.002 ~ .006	.051	.433					●	●	●	●	●	●	●
										●	●	●	●	●	●	●

Milling - Shoulder Milling - Inserts
TPCN / TPKN / TPKR - Shoulder Milling Positive (3 Corners ISO)



Series	KRINS	IC	S
TP** 32	90	.375	.125
TP** 43	90	.500	.187

EDP 1200.. ●: Stock item ○: Order made item

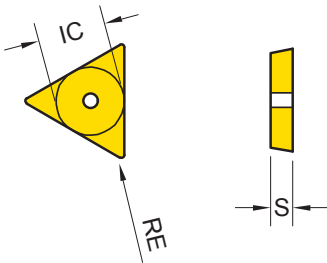
H20	P15	P25	P30	P30	P30	P40	M40	M40	K10	K15	S40
P20			K30	M30	M30	M40	S40	S40			

TPCN TPKN TPKR	Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG904
TPCN Ground insert	TPCN 43 PDSR - M		.002 ~ .008	.069	.709	●	●			●	●	●	●	●	●	●
	TPCN 43 PDSR - MR		.002 ~ .008	.069	.709	●	●			●	●	●	●	●	●	●
TPKN Hard Materials	TPKN 32 PDTR		.002 ~ .008	.047	.472					●	●	●	●	●	●	●
	TPKN 32 PDTR - GW		.002 ~ .006	.063	.472					●	●	●	●	●	●	●
	TPKN 32 PDTR - PW		.002 ~ .012	.047	.472					●	●	●	●	●	●	●
	TPKN 43 PDTR		.002 ~ .009	.067	.709	●	●			●	●	●	●	●	●	●
	TPKN 43 PDTR - GW		.002 ~ .018	.098	.709	●	●			●	●	●	●	●	●	●
	TPKN 43 PDTR - PW		.002 ~ .011	.067	.709	●	●			●	●	●	●	●	●	●
TPKR General	TPKR 32 PDTR		.006 ~ .011	.047	.472					●	●	●	●	●	●	●
	TPKR 32 PDTR - PW		.004 ~ .008	.047	.472					●	●	●	●	●	●	●
	TPKR 43 PDTR		.007 ~ .014	.067	.709					●	●	●	●	●	●	●
	TPKR 43 PDTR - PW		.007 ~ .014	.067	.709					●	●	●	●	●	●	●

- PW : For Improved Surface Roughness
- GW : Ground Wiper
- M : For Mold & Die
- MR : For Mold & Die Roughing

Milling - Shoulder Milling - Inserts
TPUN - Universal Positive (3 Corners ISO)

		Series		IC	S
		TPUN 32		.375	.125



		EDP 1200.. ●: Stock item ○: Order made item															
		H20	P15	P25	P30	P30	P30	P40	M40		K10	K15	S40				
		P20			K30	M30 S30	M30	M40 S40	S40								
TPUN	Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG904	
	TPUN 322	.031	.003 ~ .006								●						
											○						

TPUN



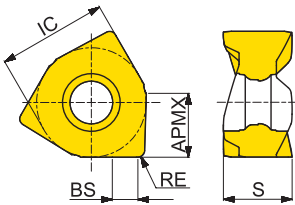


TPUN



Milling - Shoulder Milling - Inserts
WNEX - Shoulder Milling Negative (6 Corners ISO)

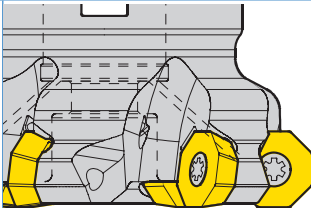
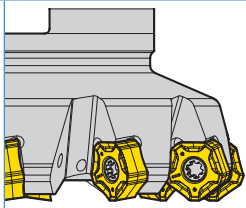
							Series		IC	S
							WNE* 0403		.276	.142
							WNE* 0806		.508	.246

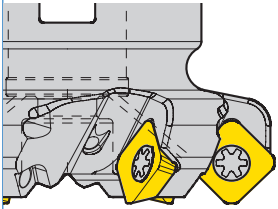


EDP 1200.. ●: Stock item ○: Order made item																	
							H20	P15	P25	P30	P30	P30	P40	M40	K10	K15	S40
							P20			K30	M30 S30	M30	M40 S40	S40			
WNEX	Designation	RE (in)	Fz (in/tooth)	BS (in)	APMX (in)		YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG614	YG5020	YG501	YG904
General	WNEX 040304R -GN	.016	.002 ~ .009	.079	.157	●	1029	1031			●		●	1030	1309	1032	1033
	WNEX 040308R -GN	.031	.002 ~ .009	.065	.157	●	1037	1039			●		●	1038	1310	1040	1041
	WNEX 040312R -GN	.047	.002 ~ .009	.051	.157	●	1045	1047			●		●	1046	1311	1048	1049
	WNEX 080604R -GN	.016	.002 ~ .010	.126	.276	●	0856	0857			●				1312	0858	0924
	WNEX 080608R -GN	.031	.002 ~ .010	.110	.276	●	0859	0792			●		0793		1313	0794	0795
	WNEX 080612R -GN	.047	.002 ~ .010	.094	.276	●	0877	0878			●				1315	0879	0925
	WNEX 080616R -GN	.063	.002 ~ .010	.079	.276	●	0861	0862			●				1316	0863	0926
	WNEX 080620R -GN	.079	.002 ~ .010	.063	.276	●	0882	0883			●				1317	0884	0927
-ST Stainless Steel Super Alloy	WNEX 040304R -ST	.016	.002 ~ .006	.079	.157						●		1034	1035			
	WNEX 040308R -ST	.031	.002 ~ .006	.065	.157						●		1042	1043			
	WNEX 040312R -ST	.047	.002 ~ .006	.051	.157						●		1050	1051			
	WNEX 080604R -ST	.016	.002 ~ .007	.142	.276						●		0864	0865			
	WNEX 080608R -ST	.031	.002 ~ .007	.130	.276						●		0866	0867	1314		
	WNEX 080612R -ST	.047	.002 ~ .007	.110	.276						●		0875	0876			
	WNEX 080616R -ST	.063	.002 ~ .007	.094	.276						●		0868	0869			
	WNEX 080620R -ST	.079	.002 ~ .007	.079	.276						●		0880	0881			

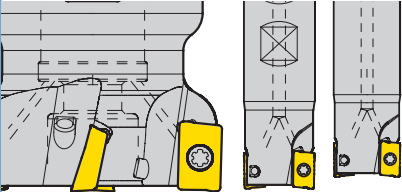
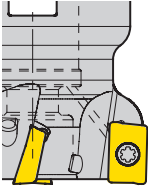
Milling Cutters Overview

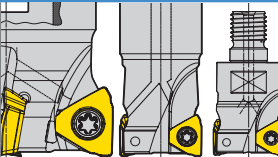
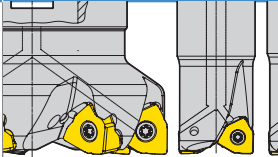
Face Milling

Positive Octagonal		10 Corner Negative	
Cutter	 ODMT/ODMW 0605	 PNMU 1206	
APMX	.157	.157	
DC	Ø2.5~5.0	Ø2.0 ~ 6.0	
page	p. 159	p. 160	

4 Corner Positive			
Cutter		SEKT 1204	SEGT 1204
APMX		.236	.236
DC		Ø1.5~6	Ø1.5~6
page		p. 163	

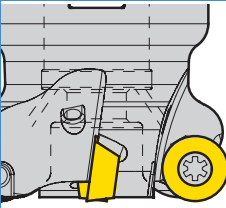
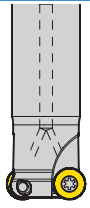
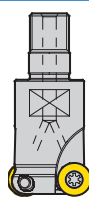
Shoulder Milling

2 Corner Positive		4 Corner Negative	
Cutter	 APKT 1003 APKT 1604	 LNHU/LNKU 1306	
APMX	.350 .630	.433	
DC	Ø.625~2.0 Ø1.0~4.0	Ø2.0~10.0	
page	p. 154	p. 158	

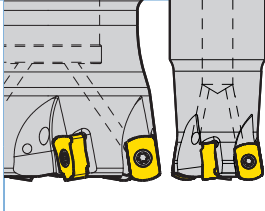
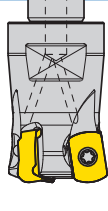
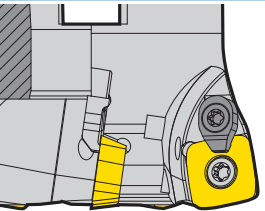
3 Corner Positive			6 Corner Negative		
Cutter	 TPKT 0703 TPKT 1104 TPKT 1605		 WNEX 0403 WNEX 0806		
APMX	.177 .276 .433		.157 .276		
DC	Ø.50~2.0 Ø1.25~5.0 Ø1.25~6.0		Ø.75~3.0 Ø1.25~5.0		
page	p. 164 - 167		p. 168 p. 169		

Milling Cutters Overview

Profiling

Round Positive				
Cutter				
				RDKT / RDKW 10T3
APMX	.157	.197	.236	
DCX	Ø.75~1.0	Ø1.0~2.0	Ø1.0~2.5	
page	p. 161			

High Feed Milling

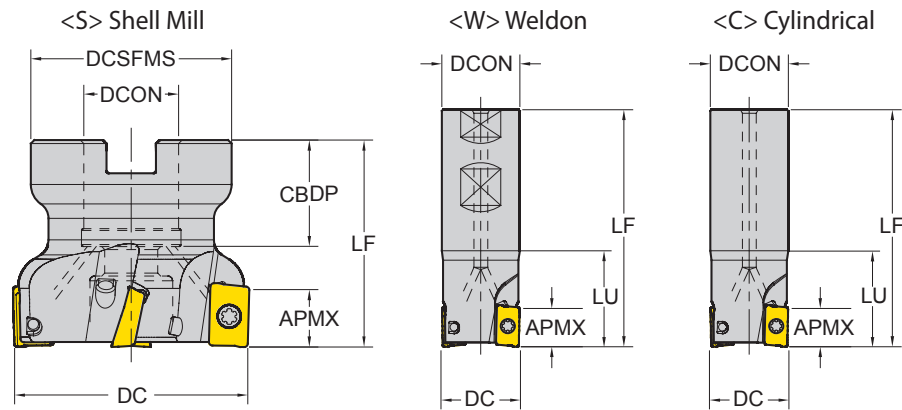
4 Corner Negative				4 Corner Positive	
Cutter					
	ENMX 0402	ENMX 0604	ENMX 0905		SDMT/SDMW 1204
APMX	.020	.035	.040	.059	.059
DCX	Ø.375~1.375	Ø.625	Ø.625~1.5	Ø1.0~6.0	Ø1.25~6.0
page	p. 155 - 157				p. 162

Mounting Bolt

DCON	Description	EDP
Ø0.5" (Ø12.7)	YHBU250-L25.4	18000244
Ø0.75" (Ø19.05)	YHBU375-L25.4	18000245
Ø0.75" (Ø19.05) HF	YHBU375-L31.75	18000246
Ø1.0" (Ø25.4)	YHBU500-L38.1	18000247
Ø1.25" (Ø31.75)	YMBU625-L52	18000248
Ø1.5" (Ø38.1)	YMBU750-L60	18000249
Ø2.0" (Ø50.8)	YMBU1000-L70	18000250

Milling - Shoulder Milling - Cutter Cutters for APKT

Entry Angle : 90°
2 Corner Positive



ZEFP : Effective Number of Cutting Edges
CICT : Number of Inserts
CBDP : Connection Bore Depth

□ : p. 123 Unit:inch

Series	APMX	Designation	EDP 1700..	DC	CICT	LH	LF	TYPE	DCON	CBDP	DCSFMS	PCD1	PCD2	
APKT 1003	.35	E90 - APKT10 - D100Z4C075 - L350I	0149	1.000	4	1.250	3.500	Cylindrical	.750	-	-	-	-	●
		E90 - APKT10 - D0625Z2W0625 - L325I	0144	.625	2	1.340	3.250	Weldon	.625	-	-	-	-	●
		E90 - APKT10 - D075Z3W075 - L320I	0146	.750	3	1.170	3.200		.750	-	-	-	-	●
		E90 - APKT10 - D100Z4W100 - L350I	0148	1.000	4	-	3.500		.100	-	-	-	-	●
		F90 - APKT10 - D150Z4S075I	0150	1.500	4	-	1.575	Shellmill	.750	.750	1.340	-	-	●
		F90 - APKT10 - D200Z7S075I	0151	2.000	7	-	1.750		.750	.750	1.750	-	-	●
APKT 1604		E90 - APKT16 - D100Z2C0875 - L378I	0089	1.000	2	1.220	3.780	Cylindrical	.875	-	-	-	-	●
		E90 - APKT16 - D125Z3C100 - L428I	0090	1.250	3	1.500	4.280		.100	-	-	-	-	●
		E90 - APKT16 - D100Z2W100 - L400I	0158	1.000	2	1.720	4.000	Weldon	.100	-	-	-	-	●
		E90 - APKT16 - D100Z2W100 - L1000I	0208	1.000	2	1.500	10.000		.100	-	-	-	-	●
		E90 - APKT16 - D125Z3W100 - L400I	0159	1.250	3	1.720	4.000		.100	-	-	-	-	●
		E90 - APKT16 - D125Z3W125 - L1000I	0205	1.250	3	1.500	10.000		1.250	-	-	-	-	●
	.63	E90 - APKT16 - D125Z4W125 - L1000I	0206	1.250	4	1.500	10.000		1.250	-	-	-	-	●
		F90 - APKT16 - D200Z5S075I	0160	2.000	5	-	1.750	Shellmill	.750	.750	1.750	-	-	●
		F90 - APKT16 - D250Z6S075I	0161	2.500	6	-	1.750		.750	.750	1.750	-	-	●
		F90 - APKT16 - D300Z7S100I	0162	3.000	7	-	2.000		1.000	.945	2.190	-	-	●
		F90 - APKT16 - D400Z8S150I	0207	4.000	8	-	2.500		1.500	1.570	3.500	-	-	●

* Clamping Torque (Nm) 1.2Nm

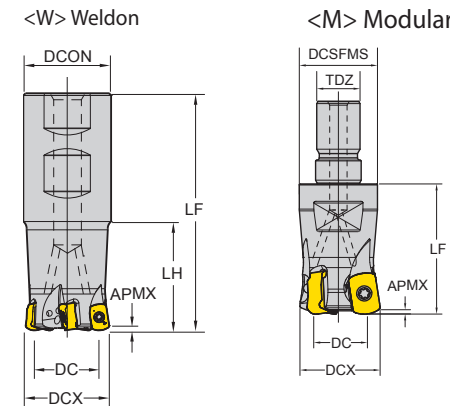
APKT10	Screw (Cutter D16~D20)	Screw (Cutter D20~)	Wrench
Description	TP072505	TP072506	TPWFTP07
EDP	18000016	18000013	18000001

* Clamping Torque (Nm) 3.0Nm

APKT16	Screw	Wrench
Description	TP154008	TPWFTP15
EDP	18000006	18000003

Milling - High Feed Milling - Cutter Cutters for ENMX

Entry Angle : 10°
4 Corner Negative



ZEFP : Effective Number of Cutting Edges
CBDP : Connection Bore Depth

□ : p. 125 Unit:inch

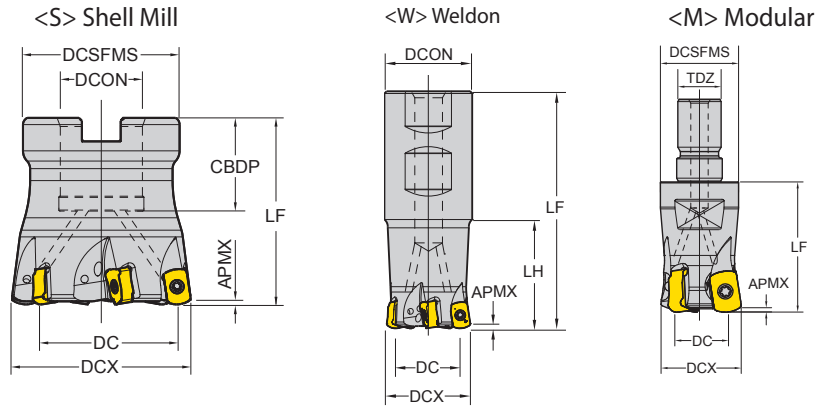
Series	APMX	Designation	EDP 1700..	DC	DCX	CICT	LF	TYPE	DCON	LH	CBDP	DCSFMS	
NEW ENMX 0402	.02	EHF-EN04-D0375Z1W0500-L400I	1304D	.185	.375	1	4.000	Weldon	.020	1.500	-	-	
		EHF-EN04-D0500Z3W0625-L450I	1305D	.310	.500	3	4.500		.025	1.500	-	-	
		EHF-EN04-D0625Z4W0625-L600I	1306D	.435	.625	4	6.000		.025	1.000	-	-	
		EHF-EN04-D075Z4W075-L750I	1307D	.560	.750	4	7.500		.030	1.000	-	-	
		EHF-EN04-D100Z6W100-L800I	1308D	.810	1.000	6	8.000		.039	1.000	-	-	
		EHF-EN04-D125Z8W125-L800I	1309D	1.060	1.250	8	8.000		.049	1.000	-	-	
		MHF-EN04-D0375Z1M06I	1310D	.185	.375	1	.670	Modular	M06	-	-	.360	
		MHF-EN04-D0455Z1M06I	1311D	.265	.455	1	.670		M06	-	-	.374	
		MHF-EN04-D0500Z3M06I	1312D	.310	.500	3	.670		M06	-	-	.374	
		MHF-EN04-D0580Z3M06I	1313D	.390	.580	3	.670		M06	-	-	.374	
		MHF-EN04-D0625Z4M08I	1314D	.435	.625	4	.980		M08	-	-	.512	
		MHF-EN04-D0705Z4M08I	1315D	.515	.705	4	.980		M08	-	-	.512	
		MHF-EN04-D075Z4M10I	1316D	.560	.750	4	1.180		M10	-	-	.709	
		MHF-EN04-D073Z4M10I	1317D	.540	.730	4	1.180		M10	-	-	.709	
		MHF-EN04-D100Z6M12I	1318D	.810	1.000	6	1.370		M12	-	-	.827	
		MHF-EN04-D1125Z6M12I	1319D	.935	1.125	6	1.370		M12	-	-	.827	
		MHF-EN04-D125Z8M16I	1387D	1.060	1.250	8	1.570		M16	-	-	1.142	
		MHF-EN04-D1375Z8M16I	1388D	1.185	1.375	8	1.570		M16	-	-	1.142	

* Clamping Torque (Nm) 0.5Nm

ENMX04	Screw	Wrench	Handle	BIT
Description	TP061804-GS	TPWBTP06	DH-H4	DB-TP06
EDP	18000272	18000277	18000189	18000274

Milling - High Feed Milling - Cutter
Cutters for ENMX

Entry Angle : 10°
4 Corner Negative



ZEFP : Effective Number of Cutting Edges
CBDP : Connection Bore Depth

□: p. 125 Unit : inch

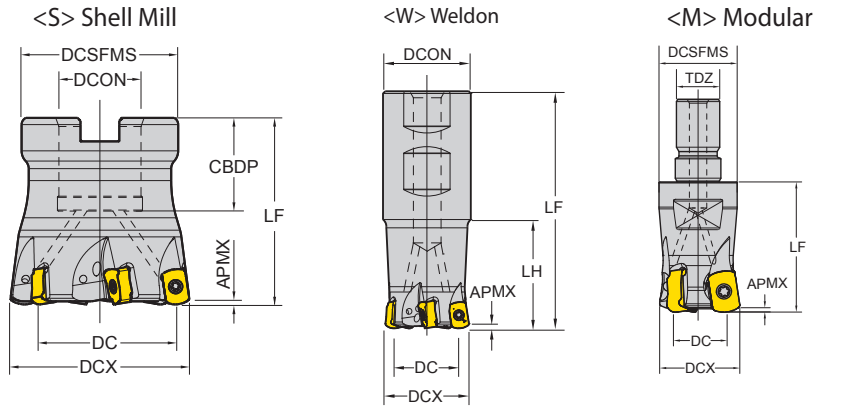
Series	APMX	Designation	EDP 1700..	DC	DCX	CICT	LF	TYPE	DCON	LH	CBDP	DCSFMS	🔩
ENMX 0604	.035	EHF - ENMX06 - D0625Z2W0625 - L500I	0759	.349	.625	2	5.000	Weldon	.625	1.250	-	-	●
		EHF - ENMX06 - D075Z3W075 - L500I	0669	.459	.750	3	5.000		.750	2.000	-	-	●
		EHF - ENMX06 - D100Z4W100 - L550I	0670	.709	1.000	4	5.500		1.000	2.500	-	-	●
		EHF - ENMX06 - D125Z5W125 - L600I	0671	.959	1.250	5	6.000		1.250	3.000	-	-	●
	.04	FHF - ENMX06 - D150Z6S050I	0672	1.209	1.500	6	1.575	Shellmill	.500	-	.750	1.340	●
		FHF - ENMX06 - D200Z6S075I	0673	1.709	2.000	6	1.969		.750	-	.750	1.570	●
		FHF - ENMX06 - D300Z10S100I	0760	2.709	3.000	10	2.480		1.000	-	1.049	2.835	●
		MHF - ENMX06 - D0625Z2M08I	0761	.349	.625	2	1.000	Modular	M08	1.000	-	.512	●
		MHF - ENMX06 - D0705Z2M08I	0762	.429	.705	2	1.000		M08	1.000	-	.512	●
		MHF - ENMX06 - D075Z3M10I	0763	.459	.750	3	1.250		M10	1.250	-	.709	●
		MHF - ENMX06 - D083Z3M10I	0764	.539	.830	3	1.250		M10	1.250	-	.709	●
		MHF - ENMX06 - D100Z4M12I	0765	.709	1.000	4	1.500		M12	1.500	-	.827	●
		MHF - ENMX06 - D1125Z4M12I	0766	.834	1.125	4	1.500		M12	1.500	-	.827	●
		MHF - ENMX06 - D125Z5M16I	0767	.959	1.250	5	1.750		M16	1.750	-	1.142	●
		MHF - ENMX06 - D1375Z5M16I	0768	1.084	1.375	5	1.750		M16	1.750	-	1.142	●
		MHF - ENMX06 - D150Z6M16I	0769	1.209	1.500	6	1.750		M16	1.750	-	1.142	●

* Clamping Torque (Nm) 1.2Nm

ENMX06	Screw	Wrench	Handle	BIT
Description	TP082507 - GS	TPWBTP08	DH - H4	DB - TP08
EDP	18000206	18000218	18000189	18000190

Milling - High Feed Milling - Cutter
Cutters for ENMX

Entry Angle : 10°
4 Corner Negative



ZEFP : Effective Number of Cutting Edges
CBDP : Connection Bore Depth

□: p. 125 Unit : inch

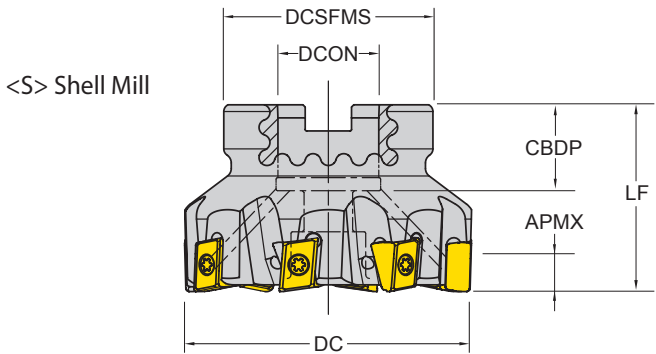
Series	APMX	Designation	EDP 1700..	DC	DCX	CICT	LF	TYPE	DCON	LH	CBDP	DCSFMS	🔩
ENMX 0905	.035	EHF - ENMX09 - D100Z2W100 - L550I	0777	.606	1.000	2	5.500	Weldon	1.000	2.500	-	-	●
		EHF - ENMX09 - D125Z3W125 - L600I	0778	.856	1.250	3	6.000		1.250	3.000	-	-	●
		EHF - ENMX09 - D150Z4W125 - L600I	0779	1.106	1.500	4	6.000		1.250	1.500	-	-	●
		FHF - ENMX09 - D200Z5S075I	0780	1.606	2.000	5	1.969	Shellmill	.750	-	.750	1.750	●
		FHF - ENMX09 - D250Z6S075I	0781	2.106	2.500	6	1.969		.750	-	.750	2.204	●
		FHF - ENMX09 - D300Z8S100I	0782	2.606	3.000	8	2.480		1.000	-	1.049	2.204	●
		FHF - ENMX09 - D400Z10S125I	0783	3.606	4.000	10	2.480		1.250	-	1.260	3.000	●
		FHF - ENMX09 - D500Z12S150I	0882	4.606	5.000	12	2.460		1.500	-	1.381	3.811	●
	.059	FHF - ENMX09 - D600Z14S200I	0784	5.606	6.000	14	2.480	Modular	2.000	-	1.496	4.700	●
		MHF - ENMX09 - D100Z2M12I	0852	.606	1.000	2	1.500		M12	-	-	.827	●
		MHF - ENMX09 - D1125Z2M12I	0853	.731	1.125	2	1.500		M12	-	-	.827	●
		MHF - ENMX09 - D125Z3M16I	0854	.856	1.250	3	1.750		M16	-	-	1.142	●
		MHF - ENMX09 - D1375Z3M16I	0855	.981	1.375	3	1.750	Modular	M16	-	-	1.142	●
		MHF - ENMX09 - D150Z4M16I	0856	1.106	1.500	4	1.750		M16	-	-	1.142	●

* Clamping Torque (Nm) 2.0Nm

ENMX09	Screw	Wrench	Handle	BIT
Description	TP093510 - GS	TPWBTP09	DH - H4	DB - TP09
EDP	18000214	18000216	18000189	18000209

Milling - Shoulder Milling - Cutter
Cutters for LNHU, LNKU

Entry Angle : 90°
4 Corner Negative



ZEFP : Effective Number of Cutting Edges
CBDP : Connection Bore Depth

□: p. 127 Unit : inch

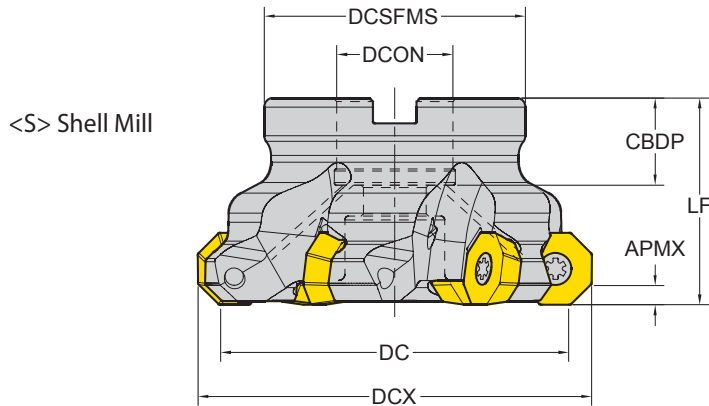
Series	APMX	Designation	EDP 1700..	DC	CICT	LF	TYPE	DCON	LH	CBDP	DCSFMS	🔹
LNHU LNKU 1306	.433	F90 - LNHU13R - D200Z4S075I	0891	2.000	4	1.575	Shellmill	.750	-	.748	1.750	●
		F90 - LNHU13R - D200Z5S075I	0892	2.000	5	1.575		.750	-	.748	1.750	●
		F90 - LNHU13R - D250Z7S075I	0893	2.500	7	1.969		.750	-	.748	1.750	●
		F90 - LNHU13R - D300Z6S100I	0894	3.000	6	1.969		1.000	-	.945	2.190	●
		F90 - LNHU13R - D300Z8S100I	0895	3.000	8	1.969		1.000	-	.945	2.190	●
		F90 - LNHU13R - D400Z8S125I	0896	4.000	8	1.969		1.250	-	1.260	2.880	●
		F90 - LNHU13R - D400Z12S125I	0897	4.000	12	1.969		1.250	-	1.260	2.880	●
		F90 - LNHU13R - D500Z10S150I	0898	5.000	10	2.480		1.500	-	1.417	3.810	●
		F90 - LNHU13R - D600Z12S200I	0899	6.000	12	2.480		2.000	-	1.496	4.882	●
		F90 - LNHU13R - D600Z18S200I	0900	6.000	18	2.480		2.000	-	1.496	4.882	●
		F90 - LNHU13R - D800Z16S250I - WOC	0901	8.000	16	2.480		2.500	-	1.378	6.890	X
		F90 - LNHU13R - D1000Z20S250I - WOC	0902	10.000	20	2.480		2.500	-	1.378	8.660	X

** Clamping Torque (Nm) 3.0Nm

LNKU13	Screw	Wrench	Handle	BIT
Description	TP150412 - GS	TPWBTP15	DH - H6	DB - TP15
EDP	18000225	18000217	18000210	18000208

Milling - Face Milling - Cutter
Cutters for ODMT, ODMW

Entry Angle : 45°
8 Corner Positive



ZEFP : Effective Number of Cutting Edges
CICT : Number of Inserts
CBDP : Connection Bore Depth

□: p. 128 Unit: inch

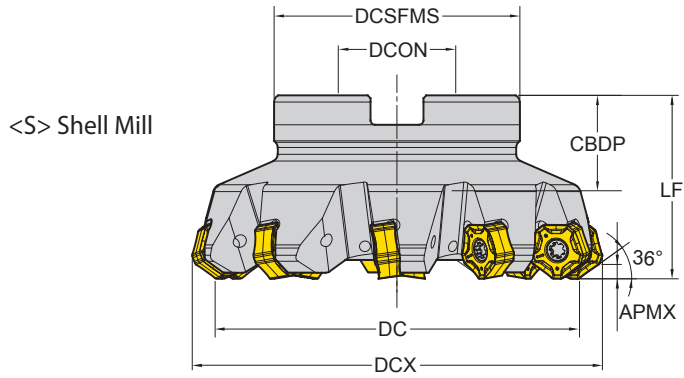
Series	APMX	Designation	EDP 1700..	DC	DCX	CICT	LF	TYPE	DCON	CBDP	DCSFMS	PCD1	PCD2	🔹
ODMT ODMW 0605	.157	F43 - ODMT06 - D250Z5S075I	0040	2.500	2.880	5	1.575	Shellmill	.750	.790	2.000	-	-	●
		F43 - ODMT06 - D300Z6S100I	0041	3.000	3.550	6	1.750		1.000	.944	2.500	-	-	●
		F43 - ODMT06 - D400Z7S125I	0042	4.000	4.340	7	2.000		1.250	.980	3.000	-	-	●
		F43 - ODMT06 - D500Z8S150I	0043	5.000	5.320	8	2.380		1.500	1.378	3.650	-	-	●

* Clamping Torque (Nm) 5.3Nm

ODMT06	Screw	Wrench
Description	TP205013	TPWFTP20
EDP	18000007	18000004

Milling - Face Milling - Cutter
Cutters for PNMU

Entry Angle: 36°
10 Corner Negative



ZEFP : Effective Number of Cutting Edges
CICT : Number of Inserts
CDBP : Connection Bore Depth

Unit: inch

Series	APMX	Designation	EDP 1700..	DC	DCX	CICT	LF	TYPE	DCON	CBDP	DCSFMS	PCD1	PCD2	
PNMU 1206	.157	F36 - PNMU12 - D200Z4S075I	0468	2.000	2.530	4	1.575	Shell Mill	.750	.750	1.750	-	-	●
		F36 - PNMU12 - D250Z5S075I	0788	2.500	3.030	5	1.575		.750	.750	2.000	-	-	●
		F36 - PNMU12 - D300Z8S100I	0469	3.000	3.530	8	2.000		1.000	1.049	2.500	-	-	●
		F36 - PNMU12 - D400Z10S125I	0470	4.000	4.530	10	2.000		1.250	1.269	3.000	-	-	●
		F36 - PNMU12 - D500Z12S150I	0881	5.000	5.530	12	2.480		1.500	1.390	3.810	-	-	●
		F36 - PNMU12 - D600Z14S200I	0863	6.000	6.530	14	2.480		2.000	1.500	4.700	-	-	●
		F36-PNMU12R-D800Z18S250I-WOC	1018	8.000	8.530	18	2.500		2.5	1.378	6.890	-	-	X
		F36-PNMU12R-D1000Z20S250I-WOC	1020	10.000	10.530	20	2.500		2.5	1.378	8.660	-	-	X

* Clamping Torque (Nm) 3.0Nm

PNMU12	Screw	Wrench	Handle	BIT
Description	TP154008	TPWBTP15	DH - H4	DB - TP15
EDP	18000006	18000217	18000189	18000208

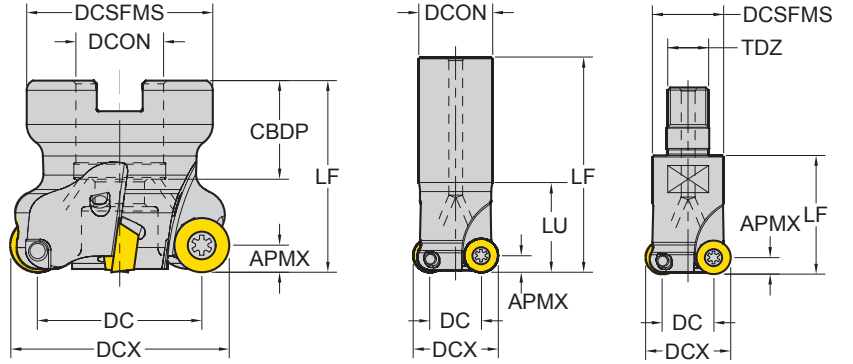
Milling - Profiling - Cutter
Cutters for RDKT, RDKW

Round Positive

<S> Shell Mill

<C> Cylindrical

<M> Modular



ZEFP : Effective Number of Cutting Edges
CDBP : Connection Bore Depth

Unit: inch

Series	APMX	Designation	EDP 1700..	DC	DCX	CICT	LU	LF	TYPE	DCON	CBDP	DCSFMS	
RDKT, RDKW 0802	.157	E - RDKT08 - D075Z2C075 - L700I	0044	.435	.750	2	1.500	7.000	Cylindrical	.750	-	-	●
		E - RDKT08 - D100Z3C075 - L700I	0045	.685	1.000	3	1.500	7.000		.750	-	-	●
		M - RDKT08 - D075Z2M10I	0046	.435	.750	2	-	1.250	Modular	M10	-	-	●
		M - RDKT08 - D100Z3M12I	0047	.685	1.000	3	-	1.500		M12	-	-	●
RDKT, RDKW 10T3	.197	E - RDKT10 - D100Z2C100 - L700I	0048	.606	1.000	2	1.500	7.000	Cylindrical	1.000	-	-	●
		F - RDKT10 - D150Z5S050I	0050	1.106	1.500	5	-	1.575		.500	.630	1.250	●
		F - RDKT10 - D200Z6S075I	0051	1.606	2.000	6	-	1.750	Shellmill	.750	.750	1.575	●
		M - RDKT10 - D100Z3M12I	0049	.606	1.000	3	-	1.500		M12	-	.827	●
RDKT, RDKW 1204	.236	E - RDKT12 - D100Z2C100 - L700I	0052	.528	1.000	2	1.500	7.000	Cylindrical	1.000	-	-	●
		E - RDKT12 - D125Z2C125 - L800I	0053	.778	1.250	2	1.500	8.000		1.250	-	-	●
		E - RDKT12 - D125Z3C125 - L600I	0054	.778	1.250	3	1.500	6.000		1.250	-	-	●
		F - RDKT12 - D150Z4S050I	0057	1.027	1.500	4	-	1.575	Shellmill	.500	.630	1.250	X
		F - RDKT12 - D200Z5S075I	0058	1.527	2.000	5	-	1.750		.750	.750	1.575	X
		F - RDKT12 - D250Z6S075I	0059	2.027	2.500	6	-	1.750		.750	.790	1.750	X
		M - RDKT12 - D100Z2M12I	0055	.527	1.000	2	-	1.500	Modular	M12	-	.827	●
		M - RDKT12 - D125Z3M16I	0056	.777	1.250	3	-	1.750		M16	-	1.142	●

* Clamping Torque (Nm) 1.2Nm

RDKT08	Screw	Wrench
Description	TP082505	TPWFTP08
EDP	18000008	18000002

* Clamping Torque (Nm) 3.0Nm

RDKT10	Screw	Wrench
Description	TP154008RD	TPWFTP15
EDP	18000017	18000003

* Clamping Torque (Nm) 3.0Nm

RDKT12	Screw	Wrench	Wedge Clamp
Description	TP154009	TPWFTP15	MTCA - 130813P
EDP	18000010	18000003	18000037

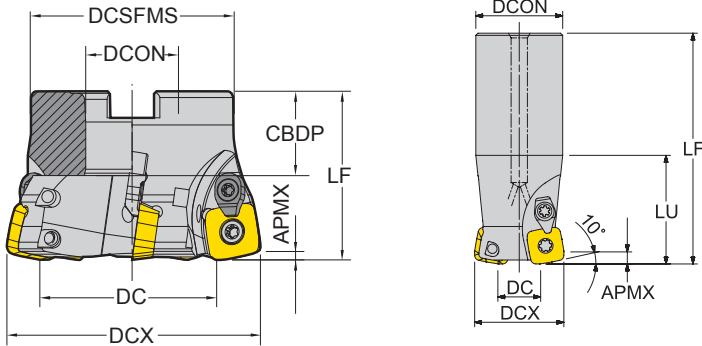
Milling - High Feed Milling - Cutter

Cutters for SDMT, SDMW

Entry Angle : 10°
4 Corner Positive

<S> Shell Mill

<C> Cylindrical



ZEFP : Effective Number of Cutting Edges
CDBP : Connection Bore Depth

□ : p. 137 Unit : inch

Series	APMX	Designation	EDP 1700..	DC	DCX	CICT	LU	LF	TYPE	DCON	CDBP	DCSFMS	
SDMT SDMW 1204	.059	EHF - SDMW12 - D125Z2C125 - L800I	0386	.559	1.250	2	3.500	8.000	Cylindrical	1.250	-	-	●
		EHF - SDMW12 - D150Z3C150 - L800I	0387	.807	1.500	3	3.500	8.000		1.500	-	-	●
		FHF - SDMW12 - D200Z5S075I	0388	1.307	2.000	5	-	2.000	Shellmill	.750	.789	1.750	●
		FHF - SDMW12 - D250Z5S100I	0389	1.807	2.500	5	-	2.000		1.000	.945	2.130	●
		FHF - SDMW12 - D300Z5S100I	0436	2.307	3.000	5	-	2.000		1.000	.945	2.130	●
		FHF - SDMW12 - D300Z6S100I	0390	2.307	3.000	6	-	2.000		1.000	.945	1.750	●
		FHF - SDMW12 - D300Z6S125I	0391	2.307	3.000	6	-	2.000		1.250	.945	2.130	●
		FHF - SDMW12 - D300Z7S100I	0437	2.307	3.000	7	-	2.000		1.000	.945	2.130	●
		FHF - SDMW12 - D400Z7S150I	0438	3.307	4.000	7	-	2.550		1.500	1.181	3.810	●
		FHF - SDMW12 - D400Z8S150I	0392	3.307	4.000	8	-	2.550		1.500	1.181	3.810	●
		FHF - SDMW12 - D400Z9S150I	0439	3.307	4.000	9	-	2.550		1.500	1.181	3.810	●
		FHF - SDMW12 - D500Z9S150I	0880	4.307	5.000	9	-	2.550		1.500	1.181	3.810	●
		FHF - SDMW12 - D600Z12S200I	1025	5.307	6.000	12	-	2.480		2.000	1.023	4.700	●

* Clamping Torque (Nm) 3.0Nm

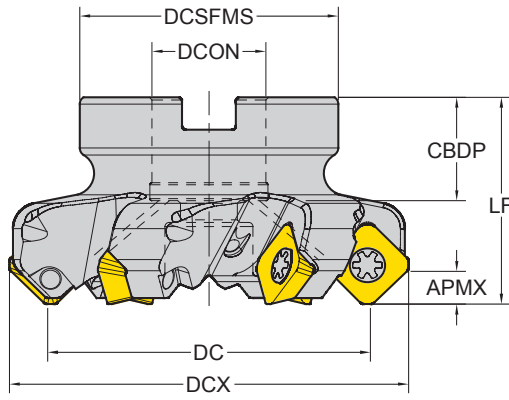
SDMT12	Screw	Wrench	Handle	Wedge Clamp
Description	Y4015 - M4x11	Y80 - T15	18000167	YACK - 15
EDP	18000119	18000167	-	18000069

Milling - Face Milling - Cutter

Cutters for SEGT, SEKT

Entry Angle : 45°
4 Corner Positive

<S> Shell Mill



ZEFP : Effective Number of Cutting Edges
CICT : Number of Inserts
CDBP : Connection Bore Depth

□ : p. 138 Unit : inch

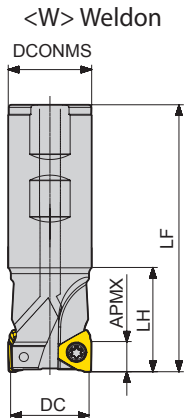
Series	APMX	Designation	EDP 1700..	DC	DCX	CICT	LU	LF	TYPE	DCON	CDBP	DCSFMS	
SEGT, SEKT 1204	.236	F45-SEKT12-D150Z4S050I	0060	1.500	2.060	4	-	1.575	Shellmill	.500	.710	1.250	●
		F45-SEKT12-D200Z5S075I	0061	2.000	2.560	5	-	1.575		.750	.790	1.750	●
		F45-SEKT12-D250Z4S075I	0062	2.500	3.060	4	-	1.575		.750	.790	2.000	●
		F45-SEKT12-D250Z6S075I	0063	2.500	3.060	6	-	1.575		.750	.790	2.000	●
		F45-SEKT12-D300Z4S100I	0064	3.000	3.560	4	-	1.75		1.000	.870	2.250	●
		F45-SEKT12-D300Z7S100I	0065	3.000	3.560	7	-	1.75		1.000	.870	2.250	●
		F45-SEKT12-D400Z8S125I	0066	4.000	4.560	8	-	2.000		1.250	.980	3.000	●
		F45-SEKT12-D500Z10S150I	0067	5.000	5.560	10	-	2.380		1.500	1.140	3.650	●
		F45-SEKT12-D600Z12S200I	0068	6.000	6.560	12	-	2.380		2.000	1.180	4.700	●

* Clamping Torque (Nm) 2.4Nm

SEKT1204	Screw	Wrench
Description	TP204510	TPWFTP20
EDP	18000011	18000004

Milling - Shoulder Milling - Cutter
Cutters for TPKT

Entering Angle : 90°
3 Corner Positive



CICT : Number of Inserts
CBDP : Connection Bore Depth

□ : p. 148 Unit:inch

Series	APMX	Designation	EDP 1700..	DC	CICT	LF	TYPE	DCON	LH	CBDP	DCSFMS	
NEW TPKT 0703	.177	E90-TP07-D0500Z1W0625-L325I	1164	.500	1	3.250	Weldon	.625	1.378	-	-	●
		E90-TP07-D0625Z2W0625-L325I	1165	.625	2	3.250		.625	.984	-	-	●
		E90-TP07-D0750Z2W0750-L400I	1166	.750	2	4.000		.750	.984	-	-	●
		E90-TP07-D100Z3W0750-L400I	1167	1.000	3	4.000		.750	.984	-	-	●
		E90-TP07-D100Z3W100-L400I	1168	1.000	3	4.000		1.000	.984	-	-	●
		E90-TP07-D100Z3W100-L600I	1169	1.000	3	6.000		1.000	1.378	-	-	●
		E90-TP07-D100Z3W100-L1000I	1170	1.000	3	10.000		1.000	2.165	-	-	●
		E90-TP07-D125Z3W125-L450I	1171	1.250	3	4.500		1.250	1.181	-	-	●
		E90-TP07-D125Z3W125-L650I	1172	1.250	3	6.500		1.250	1.575	-	-	●
		E90-TP07-D125Z3W125-L1000I	1173	1.250	3	10.000		1.250	2.362	-	-	●
		E90-TP07-D150Z4W125-L450I	1174	1.500	4	4.500		1.250	1.181	-	-	●
		E90-TP07-D150Z4W125-L650I	1175	1.500	4	6.500		1.250	1.575	-	-	●
		E90-TP07-D150Z4W125-L1000I	1176	1.500	4	10.000		1.250	2.362	-	-	●
		E90-TP07-D150Z6W125-L450I	1177	1.500	6	4.500		1.250	1.181	-	-	●
		E90-TP07-D150Z6W125-L650I	1178	1.500	6	6.500		1.250	1.575	-	-	●

► NEXT PAGE

* Clamping Torque (Nm) 0.6Nm

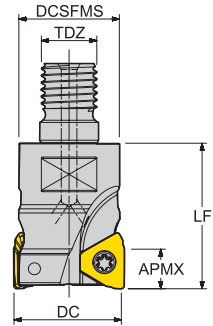
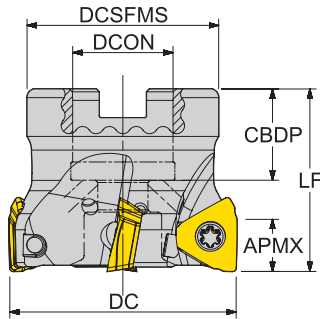
TPKT0703	Screw	Wrench	Handle	BIT
Description	TP062004-GS	TPWBTP06	DH-H4	DB-TP06
EDP	18000252	18000277	18000189	18000274

Milling - Shoulder Milling - Cutter
Cutters for TPKT

Entering Angle : 90°
3 Corner Positive

<S> Shellmill

<M> Modular



CICT : Number of Inserts
CBDP : Connection Bore Depth

□ : p. 148 Unit:inch

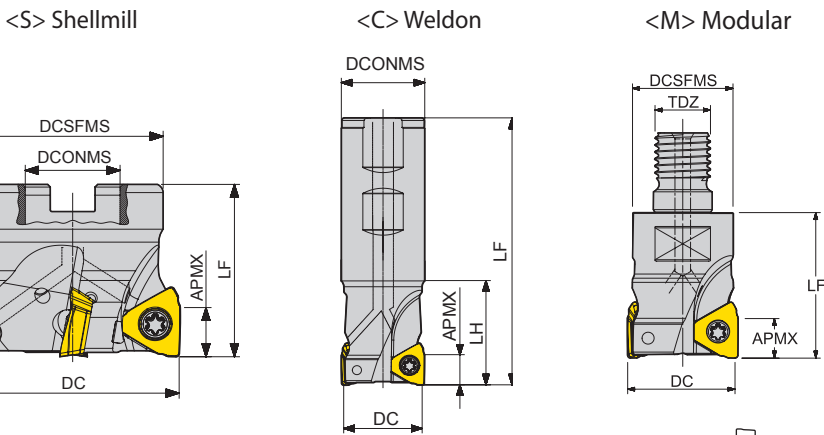
Series	APMX	Designation	EDP 1700..	DC	CICT	LF	TYPE	DCON	LH	CBDP	DCSFMS	
NEW TPKT 0703	.177	F90-TP07-D150Z5S075I	1179	1.500	5	1.570	Shellmill	.750	-	-	-	●
		F90-TP07-D150Z8S075I	1180	1.500	8	1.570		.750	-	-	-	●
		F90-TP07-D200Z7S075I	1181	2.000	7	1.570		.750	-	-	-	●
		F90-TP07-D200Z9S075I	1182	2.000	9	1.570		.750	-	-	-	●
		M90-TP07-D0625Z2M08I	1183	.625	2	1.575	Modular	M08	.905	-	.512	●
		M90-TP07-D0705Z2M08I	1184	.705	2	1.575		M08	.905	-	.512	●
		M90-TP07-D075Z2M10I	1185	.750	2	2.287		M10	1.500	-	.689	●
		M90-TP07-D083Z2M10I	1186	.830	2	2.287		M10	1.500	-	.709	●
		M90-TP07-D100Z3M12I	1187	1.000	3	2.366		M12	1.500	-	.827	●
		M90-TP07-D1125Z3M12I	1188	1.125	3	2.366		M12	1.500	-	.827	●
		M90-TP07-D125Z5M16I	1189	1.250	5	2.773		M16	1.750	-	1.142	●
		M90-TP07-D1375Z5M16I	1190	1.375	5	2.773		M16	1.750	-	1.142	●
		M90-TP07-D150Z5M16I	1191	1.500	5	2.773		M16	1.750	-	1.142	●

* Clamping Torque (Nm) 0.6Nm

TPKT0703	Screw	Wrench	Handle	BIT
Description	TP062004-GS	TPWBTP06	DH-H4	DB-TP06
EDP	18000252	18000277	18000189	18000274

Milling - Shoulder Milling - Cutter
Cutters for TPKT

Entering Angle : 90°
3 Corner Positive



CICT : Number of Inserts
CBDP : Connection Bore Depth

Unit:inch

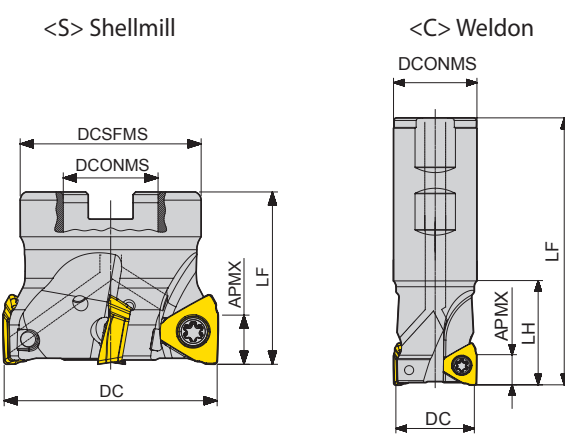
Series	APMX	Designation	EDP 1700..	DC	CICT	LF	TYPE	DCON	LH	CBDP	DCSFMS	
TPKT 1104	.276	E90 - TP11 - D125Z3W125 - L450I	1054	1.250	3	4.500	Weldon	1.250	1.500	-	-	●
		E90 - TP11 - D125Z3W125 - L650I	1055	1.250	3	6.500		1.250	2.500	-	-	●
		E90 - TP11 - D150Z3W125 - L450I	1056	1.500	3	4.500		1.250	2.250	-	-	●
		E90 - TP11 - D150Z4W125 - L450I	1057	1.500	4	4.500		1.250	2.250	-	-	●
		E90 - TP11 - D200Z5W125 - L450I	1058	2.000	5	4.500		1.250	2.250	-	-	●
		F90 - TP11 - D150Z4S050I	1059	1.500	4	1.375	Shellmill	.500	-	.640	1.378	●
		F90 - TP11 - D200Z5S075I	1060	2.000	5	1.750		.750	-	.750	1.750	●
		F90 - TP11 - D250Z6S075I	1061	2.500	6	1.750		.750	-	.750	1.750	●
		F90 - TP11 - D300Z5S100I	1062	3.000	5	1.750		1.000	-	.750	2.189	●
		F90 - TP11 - D300Z8S100I	1063	3.000	8	1.750		1.000	-	.750	2.189	●
		F90 - TP11 - D400Z10S150I	1064	4.000	10	2.375		1.500	-	1.060	2.874	●
		F90 - TP11 - D400Z8S150I	1065	4.000	8	2.375		1.500	-	1.060	2.874	●
		F90 - TP11 - D500Z11S150I	1066	5.000	11	2.375		1.500	-	1.060	3.807	●
		M90 - TP11 - D125Z3M16I	1067	1.250	3	2.410	Modular	M16	1.500	-	1.130	●
		M90 - TP11 - D150Z4M16I	1068	1.500	4	2.410		M16	1.500	-	1.130	●

* Clamping Torque (Nm) 1.2Nm

TPKT1104	Screw	Wrench	Handle	BIT
Description	TP082506 - GS	TPWBTP08	DH - H4	DB - TP08
EDP	18000259	18000218	18000189	18000190

Milling - Shoulder Milling - Cutter
Cutters for TPKT

Entering Angle : 90°
3 Corner Positive



CICT : Number of Inserts
CBDP : Connection Bore Depth

Unit:inch

Series	APMX	Designation	EDP 1700..	DC	CICT	LF	TYPE	DCON	LH	CBDP	DCSFMS	
TPKT 1605	.433	E90-TP16-D125Z2W125-L450I	1198	1.250	2	4.500	Weldon	1.250	1.500	-	-	●
		E90-TP16-D150Z3W125-L450I	1199	1.500	3	4.500		1.250	1.500	-	-	●
		E90-TP16-D200Z4W125-L450I	0957	2.000	4	4.500		1.250	1.500	-	-	●
		F90-TP16-D200Z4S075I	0959	2.000	4	1.750	Shellmill	.750	-	.750	1.750	●
		F90-TP16-D200Z5S075I	0960	2.000	5	1.750		.750	-	.750	1.750	●
		F90-TP16-D250Z6S075I	0961	2.500	6	1.750		.750	-	.750	1.750	●
		F90-TP16-D300Z6S100I	0962	3.000	6	1.750		1.000	-	.750	2.189	●
		F90-TP16-D300Z7S100I	0963	3.000	7	1.750		1.000	-	.750	2.189	●
		F90-TP16-D400Z6S150I	0964	4.000	6	2.375		1.500	-	1.417	2.874	●
		F90-TP16-D400Z8S150I	0965	4.000	8	2.375		1.500	-	1.417	2.874	●
		F90-TP16-D500Z9S150I	0966	5.000	9	2.375		1.500	-	1.417	3.807	●
		F90-TP16-D600Z12S150I	0967	6.000	12	2.375		1.500	-	1.417	4.882	●
		F90-TP16-D600Z8S150I	0968	6.000	8	2.375		1.500	-	1.417	4.882	●

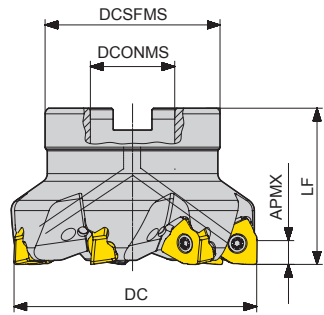
* Clamping Torque (Nm) 5.3Nm

TPKT1605	Screw	Wrench	Handle	BIT
Description	TP2045105	TPWBTP20	DH - H6	DB - TP20
EDP	18000264	18000256	18000210	18000257

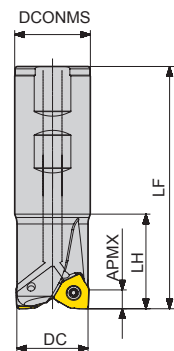
Milling - Shoulder Milling - Cutter
Cutters for WNEX

Entering Angle : 90°
6 Corner Negative

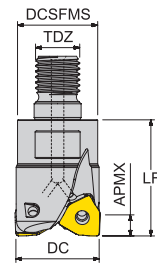
<S> Shellmill



<W> Weldon



<M> Modular



CICT : Number of Inserts
CBDP : Connection Bore Depth

□ : p. 151 Unit: inch

Series	APMX	Designation	EDP 1700..	DC	CICT	LF	TYPE	DCON	LH	CBDP	DCSFMS	
NEW WNEX 0403	.157	E90-WN04-D075Z3W075-L400I	1247	.750	3	4.000	Weldon	.750	1.500	-	-	●
		E90-WN04-D075Z3W075-L600I	1259	.750	3	6.000		.750	2.000	-	-	●
		E90-WN04-D100Z4W100-L400I	1248	1.000	4	4.000		1.000	1.500	-	-	●
		E90-WN04-D100Z4W100-L600I	1260	1.000	4	6.000		1.000	2.000	-	-	●
		E90-WN04-D125Z5W125-L450I	1249	1.250	5	4.500		1.250	1.500	-	-	●
		E90-WN04-D125Z5W125-L650I	1261	1.250	5	6.500		1.250	2.500	-	-	●
		E90-WN04-D150Z6W125-L450I	1250	1.500	6	4.500		1.250	2.250	-	-	●
		E90-WN04-D150Z6W125-L650I	1262	1.500	6	6.500		1.250	2.500	-	-	●
		F90-WN04-D200Z7S075I	1263	2.000	7	1.570	Shellmill	.750	-	.787	1.693	●
		F90-WN04-D200Z9S075I	1264	2.000	9	1.570		.750	-	.787	1.693	●
		F90-WN04-D250Z9S075I	1252	2.500	9	1.570		.750	-	.787	1.693	●
		F90-WN04-D250Z11S075I	1265	2.500	11	1.570		.750	-	.787	1.693	●
		F90-WN04-D300Z9S100I	1266	3.000	9	1.750		1.000	-	.787	2.205	●
		F90-WN04-D300Z13S100I	1267	3.000	13	1.750		1.000	-	.787	2.205	●
		M90-WN04-D075Z3M10I	1268	.750	3	2.165	Modular	M10	1.378	-	.709	●
		M90-WN04-D100Z4M12I	1269	1.000	4	2.244		M12	1.378	-	.827	●
		M90-WN04-D125Z5M16I	1270	1.250	5	2.677		M16	1.693	-	1.142	●
		M90-WN04-D150Z6M16I	1271	1.500	6	2.677		M16	1.693	-	1.142	●

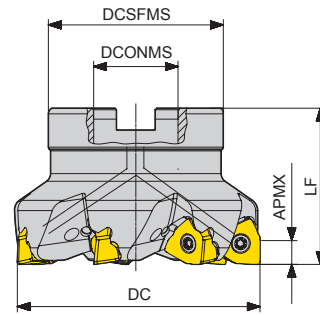
* Clamping Torque (Nm) 0.7Nm

WNEX0403	Screw	Wrench	Handle	BIT
Description	TP072557-GS	TPWBTP07	DH-H4	DB-TP07
EDP	18000275	18000289	18000189	18000278

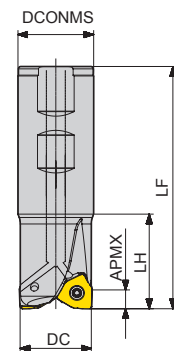
Milling - Shoulder Milling - Cutter
Cutters for WNEX

Entering Angle : 90°
6 Corner Negative

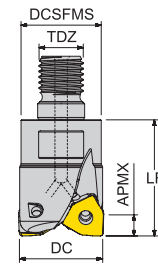
<S> Shellmill



<W> Weldon



<M> Modular



CICT : Number of Inserts
CBDP : Connection Bore Depth

□ : p. 151 Unit: inch

Series	APMX	Designation	EDP 1700..	DC	CICT	LF	TYPE	DCON	LH	CBDP	DCSFMS	
WNEX 0806	.276	E90 - WN08 - D125Z2W125 - L450I	0913	1.250	2	4.500	Weldon	1.250	2.250	-	-	●
		E90 - WN08 - D125Z2W125 - L750I	1077	1.250	2	7.500		1.250	2.500	-	-	●
		E90 - WN08 - D150Z4W125 - L450I	0914	1.500	4	4.500		1.250	1.500	-	-	●
		E90 - WN08 - D150Z4W125 - L750I	1078	1.500	4	7.500		1.250	2.500	-	-	●
		F90 - WN08 - D200Z4S075I	0915	2.000	4	1.575	Shellmill	.750	-	.750	1.732	●
		F90 - WN08 - D200Z5S075I	1079	2.000	5	1.575		.750	-	.750	1.732	●
		F90 - WN08 - D250Z5S075I	0916	2.500	5	1.575		.750	-	.750	1.732	●
		F90 - WN08 - D300Z7S100I	0917	3.000	7	2.000		1.000	-	.750	2.189	●
		F90 - WN08 - D300Z9S100I	1080	3.000	9	2.000		1.000	-	.750	2.189	●
		F90 - WN08 - D400Z9S150I	0918	4.000	9	2.500		1.500	-	1.060	3.503	●
		F90 - WN08 - D400Z11S150I	1081	4.000	11	2.500		1.500	-	1.060	3.503	●
		F90 - WN08 - D500Z11S150I	1082	5.000	11	2.50		1.500	-	1.060	3.503	●
		F90 - WN08 - D500Z14S150I	1083	5.000	14	2.50		1.500	-	1.060	3.503	●
		M90 - WN08 - D125Z2M16I	1084	1.250	2	2.410	Modular	M16	1.500	-	1.130	●
		M90 - WN08 - D150Z3M16I	1085	1.500	3	2.410		M16	1.500	-	1.130	●

* Clamping Torque (Nm) 3.0Nm

WNEX0806	Screw	Wrench	Handle	BIT
Description	TP154011 - GS	TPWBTP15	DH - H4	DB - TP15
EDP	18000251	18000217	18000189	18000208