SYMBOL DESCRIPTIONS

KAPR (Cutting Edge Angle) List



15°



30°



35°



42°



45°



50°



60°



75°



86°



90°



94°



R

- : Inventory maintained.
- ▲: Inventory maintained. To be replaced by new products.
- \square : Non stock, produced to order only.

Application



Face Milling



Chamfer Milling



Shoulder Milling with R



Face Milling Near the Wall



Shoulder Milling



Wall Milling



Slot Milling



Step Milling



Pocket Milling



Slot Milling with R



Copy Milling



T-Slot Milling



Spot Milling



Helical Drilling

M

INDEXABLE MILLING

Accuracy



Finish Cutting



Medium Cutting



Rough Cutting

Work Material Range

1st Recommendation













2nd Recommenedation













LIST OF CUTTING EDGE DIAMETER TOLERANCES

Cutter Type	Cutting Edge Diameter Tolerance (mm)	Cutter Type	Cutting Edge Diameter Tolerance (mm)
AJX	-0.1	BXD4000	-0.1
	-0.4	Arbor Type	-0.4
APX3000	-0.1	BXD4000	-0.1
Arbor Type	-0.4	Shank Type	-0.2
APX3000	-0.1	СВЈР	0
Shank Type	-0.2		- 0.3
APX3000	-0.1	СВМР	0
Long Cutting Edge Type	-0.3		- 0.3
APX4000	-0.1	OCTACUT	0
Arbor Type	-0.4		—0.3
APX4000 Shank Type	-0.1 -0.2	РМС	±0.05
APX4000	-0.1	PMF	0
Long Cutting Edge Type	-0.3		- 0.3
AQX	-0.1 -0.3	PMR	0 - 0.3
ARP	-0.1	SPX	-0.1
Arbor Type	-0.3		-0.3
ARP	-0.1	SRF	0
Shank Type	-0.2		—0.027
ARX	-0.05 -0.15	SRM	-0.05 -0.15
ASX400	0 -0.3	SUF	0 —0.02
AXD4000	-0.1	TSMP	-0.1
Arbor Type	-0.4		-0.3
AXD4000	-0.1	VFX5, VFX6	-0.1
Shank Type	-0.2	Shell Type	-0.3
AXD7000	-0.1	VOX400	-0.1
Arbor Type	-0.4		-0.4
AXD7000	-0.1	VPX	-0.1
Shank Type	-0.2	Arbor Type	-0.3
BAP300	0	VPX	-0.1
	—0.3	Shank Type	-0.2
BRP	-0.1 -0.3	WJX	-0.1 -0.3

Note 1) Cutting edge diameter tolerance when the gauge insert is set.

Note 2) When setting the insert available, the insert tolerance is added to the above tolerance. (Tolerance when setting the insert for SRF.)

MAXIMUM ALLOWABLE REVOLUTION FOR CUTTER

	WSX	445	ASX4	145	AOX4	145	ASX4	100	SE5	15
Diameter (mm)	Max. Allowable Revolution (min ⁻¹)	Clamp Torque (N • m)								
40	19000	3.5	_	_	_	_	_	_	_	_
50	17000	3.5	18000	3.5	13000	8	18000	3.5	_	_
63	15000	3.5	16000	3.5	12000	8	16000	3.5	_	_
80	14000	3.5	14000	3.5	11000	8	14000	3.5	_	_
100	12000	3.5	13000	3.5	9300	8	13000	3.5	9300	8
125	11000	3.5	12000	3.5	8300	8	12000	3.5	8100	8
160	9500	3.5	10000	3.5	7200	8	10000	3.5	7000	8
200	8500	3.5	9000	3.5	6400	8	9000	3.5	_	_
250	7500	_	8000	3.5	_	_	8000	3.5	_	_
315	6500	_	6500	3.5	-	_	_	_	_	_

	FMA	λX	V100	00	NF10	000	SG2	20	AHX6	10W
Diameter (mm)	Max. Allowable Revolution (min ⁻¹)	Clamp Torque (N • m)								
40	30000	_	_	_	-	_	_	_	_	
50	30000	3.5	_	_	-	-	_	-	_	_
63	27000	3.5	25000	3.5	_	_	_	_	_	_
80	24500	3.5	22300	3.5	16000	8.5	8200	8.5	8900	6
100	22000	3.5	20000	3.5	14000	8.5	7000	8.5	7800	6
125	19600	3.5	17800	3.5	12000	8.5	6100	8.5	6600	6
160	_	_	_	_	_	_	5300	8.5	5300	6
200	_	_	-	_	-	-	_	-	4100	6
250	_	_	_	_	_	_	_	_	2900	6
315	_	_	-	_	-	-	_	-	1700	6

	AXD4	000	AXD7	000	BXD4	000	VPX2	200	VPX	300
Diameter (mm)	Max. Allowable Revolution (min ⁻¹)	Clamp Torque (N • m)								
16	_	_	_	_	_	_	37900	1.0	_	_
18	_	_	_	_	_	_	35300	1.0	_	_
20	15000	1.5	_	_	15000	4	33200	1.0	_	_
22	-	_	_	_	-	_	31400	1.0	-	_
25	49000	1.5	_	_	38000	4	29000	1.0	24100	3.0
28	48500	1.5	_	_	_	_	27200	1.0	22500	3.0
30	_	_	_	_	_	_	26000	1.0	21500	3.0
32	48000	1.5	41000	3.5	33000	4	25100	1.0	20600	3.0
35	45000	1.5	_	_	31000	4	23800	1.0	19500	3.0
40	41000	1.5	36000	3.5	29000	4	22000	1.0	17900	3.0
50	35000	1.5	30000	3.5	24000	4	19200	1.0	15500	3.0
63	30000	1.5	25000	3.5	21000	4	16700	1.0	13400	3.0
80	27000	1.5	23000	3.5	19000	4	_	_	11500	3.0
100	23000	1.5	19000	3.5	16000	4	_	_	_	_
125	20000	1.5	16000	3.5	14000	4	_	_	_	_
160	_		_	_	_	_	_	_		_

Note 1) All values shown on this chart are based on the insert being properly seated in pocket and torqued to the recommended values.

Product Name · Shape	APMX (mm)	Features	Cutter Dia. (mm)	Work Material	Page
For General Cutting WSX445	5	● Unique design both sides insert. ● Sudden fracture & welding prevention function. ● Highly efficient chip discharge.	Ø40 — Ø315	PMK NSH	M018
For General Cutting ASX445 45° KAPR	6	● Precision inexpensive moulded type 20° positive insert. ● Screw-on type. ● A wide range of chip breakers. ● High rigidity due to carbide shim. ■ Tool News	Ø50 — Ø315	P M K N S H	M030
For General Cutting AHX440S 50° KAPR	3	● Heptagonal double sided insert. ● Economical 14 cutting edge inserts. ● Multi insert design for high feed machining.	Ø40 — Ø160	PMK H	M036 M038
For High Feed Cutting AHX475S 15° KAPR	1.6	● Heptagonal double sided insert. ● Economical 14 cutting edge inserts. ● Multi insert design for high feed machining. ● With through coolant holes.	Ø50 — Ø160	PKH	M036 M043
For General Cutting AHX640S 50° KAPR	6	● Heptagonal double sided insert. ● Economical 14 cutting edge inserts. ● Multi insert design for high feed machining. □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Ø63 — Ø200	PMK SH	M036 M046
For High Feed Cutting for Cast Iron AHX640W 50° KAPR	6	● Heptagonal double sided insert. ● Economical 14 cutting edge inserts. ● Multi insert design for high feed machining.	Ø80 — Ø315	K	M054
For High Efficiency Cutting for Cast Iron AOX445 45° KAPR	8	● Solid CBN octagonal double sided insert. ● Economical 16 cutting edge inserts. (When the depth of cut is 3mm) ● For high efficiency roughing through to finishing. ● Easy operation and cleansing.	Ø63 — Ø160	K	M060
For Heavy Cutting SE515	11.5	 20°positive insert. High rake angle. High rigidity due to carbide shim. 	Ø100 — Ø160	P M K	M062
For Difficult-to-cut Materials SG20	8	 30°positive insert. High rake angle. Round shape insert with a strong cutting edge. Suitable for difficult-to-cut materials. 	Ø80 — Ø160	P M K	M064
For High-efficiency Finishing of Aluminium Alloys FMAX 90° KAPR	3	● Feed Maximum (FMAX) milling cutter for ultra efficient and accurate finishing. ● With through coolant holes.	Ø40 — Ø160	N	M066

Product Name · Shape	APMX (mm)	Features	Cutter Dia. (mm)	Work Material	Page
High Feed Finishing for Aluminium Alloy V10000	1.5	● Insert with PCD. ■ Light weight, strong aluminium alloy cutter body. ■ Anti-Fly insert mechanism enables high speed milling. ■ Adjustable cutting edge run-out function.	Ø63 — Ø125	N	M070
High Speed Finishing for Aluminium Alloy and Cast Iron NF10000	PCD 4.0 CBN 1.0	● Suitable for light alloy and cast iron finishing. ● Adjustable cutting edge run-out function.	Ø80 — Ø125	KN	M072
High Feed Finishing FF3000 90° KAPR	0.3	 11° positive insert. 1000—3000mm/min high feed machining. For finishing of steel machining. Adjustable cutting edge run-out function. 	Ø125 — Ø250	P M K	M074
High Feed Cutting for Cast Iron FP490	0.5	 11° positive insert. Suitable for cast iron finishing. Multi-insert design. For high feed cutting. Easy tool exchange. 	Ø80 — Ø500	K	M262
High Feed Cutting for Cast Iron FP590	0.5	 11° positive insert. Suitable for cast iron finishing. Multi-insert design. For high feed cutting. Easy tool exchange. 	Ø125 — Ø500	K	M264
High Feed Cutting for Aluminium FE404	9	 21°positive insert. High rake and relief angle. Multi-insert design. Suitable for light alloy machining. Easy tool exchange. 	Ø100 — Ø500	N	M266
Multi Functional Milling NEW WJX	2	● Negative inserts. ● Stable clamp with dovetail structure. ● Suitable for high feed machining. ● Special insert design with 6 cutting edges. ● With through coolant holes.	Ø50 — Ø160	PMK SH	M172
Multi Functional Milling AJX	2	● 15° positive insert.	Ø50 — Ø160	PMK SH	M162
Multi Functional Milling of Difficult-to-cut Materials ARP	5 6	● Run-out does not occur easily when changing sections. ● Solid clamping system. ● Standardized stock of extra fine pitch. ● With through coolant holes.	Ø40 — Ø100	MS	M186
Multi Functional Milling BRP	6 8	11° positive insert. Round shape insert with a strong cutting edge. Wide range of tools available. Suitable for mould machining.	Ø40 — Ø100	PMK SH	M198

Product Name · Shape	APMX (mm)	Features	Cutter Dia. (mm)	Work Material	Page
Multi Functional Milling OCTACUT 42° KAPR	7 9	20° positive insert. For octagonal and round type inserts. Multi functional machining.	Ø40 — Ø160	P M K	M181
For Cast Iron VOX400 90° KAPR	10	● Vertical inserts with high strength cutting edge. ■ Economical 8 cutting edge inserts. ■ Screw-on type.	Ø50 — Ø250	K	M076
For General Cutting ASX400 90° KAPR	10	● High accuracy, high quality vertical wall. ● Low cutting force insert. ● With through air & coolant holes.	Ø50 — Ø250	PMK NSH	M080
For Multi Functional Cutting APX3000 90° KAPR	10	● Low cutting force insert. ● High accuracy, high quality vertical wall. ● With through air & coolant holes.	Ø32 — Ø100	P M K N S H	M097
For Multi Functional Cutting APX4000 90° KAPR	15	● Low cutting force insert. ● High accuracy, high quality vertical wall. ● With through air & coolant holes.	Ø40 — Ø160	PMK SH	M103
Multi Functional Milling for High Efficiency Machining VPX200 90° KAPR	8	Special insert design with 4 cutting edges. High precision, high quality insert cutting edge with finishing blade. With through coolant holes.	Ø32 — Ø63	P M K N S H	M112
Multi Functional Milling for High Efficiency Machining VPX300 90° KAPR	11	● Special insert design with 4 cutting edges. ● High precision, high quality insert cutting edge with finishing blade. ● With through coolant holes.	Ø40 — Ø80	P M K N S H	M124
Aluminium Alloy to Difficult-to-cut Material Cutting AXD4000 90° KAPR	14.8 15.5	● Low resistance chipbreaker. ● Low resistance insert and high rigidity design for excellent performance. ● For high-speed machining. ● Multi-functional machining. ● With through coolant holes.	Ø40 — Ø125	PNS	M135
Aluminium Alloy to Difficult-to-cut Material Cutting AXD7000 90° KAPR	20.4 21	● Low resistance chipbreaker. ● Low resistance insert and high rigidity design for excellent performance. ● For high-speed machining. ● Multi-functional machining. ● With through coolant holes.	Ø50 — Ø125	PNS	M142
Aluminium Alloy to Difficult-to-cut Material Cutting BXD4000	15	Curved cutting edge and high rigidity holder produce high wall accuracy. Low resistance insert and high rigidity design for excellent performance. With through coolant holes to ensure smooth chip discharge. For high-speed machining. With through coolant holes.	Ø40 — Ø125	P M N S H	M150

CLASSIFICATION OF SIDE CUTTER

Product Name · Shape	APMX (mm)	Features	Cutter Dia. (mm)	Work Material	Page
VAS400 Side Cutter	11.4 12.2	Insert with 4 cutting edges secure clamping. Excellent sharpness with low cutting resistance insert. Holders can load all corner R. *Cutter bodies are only available through special orders.	Ø80 — Ø160	PK	M090
VAS500 Side Cutter	15.4 16.2	Insert with 4 cutting edges secure clamping. Excellent sharpness with low cutting resistance insert. Holders can load all corner R. *Cutter bodies are only available through special orders.	Ø100 — Ø200	PK	M092
VOS400 Side Cutter	10	● For cast iron. ● Cutter body with high-rigidity design. ● Innovative vertical insert. ● Economical 8 cutting edge inserts. *Cutter bodies are only available through special orders.	Ø80 — Ø160	K	M094
ASX400 Side Cutter	10	High-precision non-grinding insert. Economical 4 cutting edge inserts. Excellent wall surface precision with curved cutting edges and high-precision body. *Cutter bodies are only available through special orders.	Ø80 — Ø160	PMK	M095

CLASSIFICATION OF BORE BORING TOOLS

Product Name · Shape	APMX (mm)	Features	Cutter Dia. (mm)	Work Material	Page
BMR 35° KAPR	_	 Double positive breaker. 12-corner type with right hand. Body with peripheral cutting edge run-out regulator. *Cutter bodies are only available through special orders. 	ı	K	M260

Product Name · Shape	APMX (mm)	Features	Cutter Dia. (mm)	Work Material	Page
WSX445	5	 Unique design both sides insert. Sudden fracture & welding prevention function. Highly efficient chip discharge. With through coolant holes. 	Ø40 — Ø80	P M K N S H	M022
ASX445 45° KAPR	6	● Precision inexpensive moulded type 20°positive insert. ● Screw-on type. ● A wide range of chip breakers. ● High rigidity due to carbide shim.	Ø50 — Ø80	P M K N S H	M032
AOX445	8	● Solid CBN octagonal double sided insert. ● Economical 16 cutting edge inserts. (when the depth of cut is 3mm) ● For high efficiency roughing through to finishing. ● Easy operation and cleansing.	Ø50 — Ø63	K	M060
AJX	2	● 13° and 15° positive inserts. ● High rigidity double clamp structure. ● Suitable for high feed machining. ● Special insert design with 3 cutting edges. ● With through coolant holes.	Ø16 — Ø63	PMK SH	M164
ASX400	10	● High tolerance M-class inserts. ● Economical 4 cutting edge inserts. ● Curved cutting edge and high rigidity holder. ● Screw-on type.	Ø40 — Ø80	P M K N S H	M082
VPX200 NEW 90° KAPR	8	 Special insert design with 4 cutting edges. High precision, high quality insert cutting edge with finishing blade. With through coolant holes. 	Ø16 — Ø50	P M K N S H	M110
VPX300 NEW 90° KAPR	11	● Special insert design with 4 cutting edges. ● High precision, high quality insert cutting edge with finishing blade. ● With through coolant holes.	Ø25 — Ø50	P M K N S H	M122
APX3000	10	● High accuracy, high quality vertical wall. ● Low cutting force insert. ● With through coolant holes.	Ø12 — Ø63	P M K N S H	M096
APX3000 Long Cutting Edge	28 55	High accuracy, high quality vertical wall. Low cutting force insert.	Ø20 — Ø40	P M K N S	M202
APX3000 Shell Type	37 46	● High accuracy, high quality vertical wall. ● Low cutting force insert. ● With through coolant holes.	Ø40 Ø50	PMK NS	M203

Product Name · Shape	APMX (mm)	Features	Cutter Dia. (mm)	Work Material	Page
BAP300	9	● 11° positive insert. ● Inserts with wiper edges produce optimal finished surface. ● Multi insert design for high feed machining.	Ø10 — Ø63	P M K N S H	M086
BAP300 Long Cutting Edge	25 51	● 11° positive insert. ● Inserts with wiper edges produce optimal finished surface. ● Multi insert design for high feed machining.	Ø20 — Ø40	PMK NSH	M210
APX4000	15	● High accuracy, high quality vertical wall. ● Low cutting force insert. ● With through air & coolant holes.	Ø25 — Ø63	PMK SH	M102
APX4000 Long Cutting Edge	56 84	● High accuracy, high quality vertical wall. ● Low cutting force insert. ● With through air & coolant holes.	Ø40 Ø50	PMK S	M206
APX4000 Shell Type	42 56	● High accuracy, high quality vertical wall. ● Low cutting force insert. ● With through coolant holes.	Ø50 Ø63	PMK S	M207
AXD4000	14.8 15.5	● Low resistance chipbreaker. ● Low resistance insert and high rigidity design for excellent performance. ● For high-speed machining. ● Multi-functional machining. ● With through coolant holes.	Ø20 — Ø40	PNS	M134
AXD7000	20.4 21	● Low resistance chipbreaker. ● Low resistance insert and high rigidity design for excellent performance. ● For high-speed machining. ● Multi-functional machining. ● With through coolant holes.	Ø32 — Ø50	PNS	M142
BXD4000	15	Curved cutting edge and high rigidity holder produce high wall accuracy. Low resistance insert and high rigidity design for excellent performance. With through coolant holes to ensure smooth chip discharge. For high-speed machining. With through coolant holes.	Ø20 — Ø40	P M N S H	M152
AQX 90° KAPR	7.4 55	● The center bottom cutting edge enables drilling without previously formed hole. ● With through coolant holes.	Ø16 — Ø50	PMK NSH	M154
ARP	5 6	● Run out does not occur easily when changing sections. ● Solid clamping system. ● Standardized stock of extra fine pitch. ● With through coolant holes.	Ø25 — Ø50	MS	M188

Product Name · Shape	APMX (mm)	Features	Cutter Dia. (mm)	Work Material	Page
ARX	2.5 3.5	 15° positive, high tolerance M-class insert. Effective for various machining applications. With through coolant holes. 	Ø10 — Ø25		M192
WJX	2	Multi functional milling. Negative inserts. Stable clamp with dovetail structure. Suitable for high feed machining. Special insert design with 6 cutting edges. With through coolant holes.	Ø50	PMK SH	M175
OCTACUT 42° KAPR	7 9	20°positive insert. For octagonal and round type inserts. Multi-functional machining.	Ø32 — Ø63	PMK	M180
BRP	4 	● 11° positive insert. ● Round shape insert with a strong cutting edge. ● Wide range of tools available. ● Suitable for mould machining.	Ø12 — Ø63	PMK SH	M196
DCCC 90° KAPR	27 93	Different helical flute angles prevents chattering.	Ø25 — Ø50	P M K	M212
SPX 90° KAPR	72 261	● Low cutting resistance due to the use of wavy inserts. ● Suitable for heavy cutting due to holder rigidity.	Ø50 — Ø63	PMK S	M215
SPX Shell Type	58	● Low cutting resistance due to the use of wavy inserts. ● Suitable for heavy cutting due to holder rigidity.	Ø63 Ø80	PMK S	M216
VFX5	26 75	● High performance titanium alloy milling. ● High rigidity design. ● Highly reliable clamping mechanism. ● With through coolant holes.	Ø40 — Ø80	S	M220
VFX6	31 90	● High performance titanium alloy milling. ● High rigidity design. ● Highly reliable clamping mechanism. ● With through coolant holes.	Ø63 — Ø100	S	M224
SRF/SRB	5.5 17	● S-shaped cutting edge provides sharpness similar to that of solid ball nose end mills. ● Highly accurate corner radius tolerance allows for high precision finishing. ● Carbide shank type available.	Ø10 — Ø32	PKN	M228

Product Name · Shape	APMX (mm)	Features	Cutter Dia. (mm)	Work Material	Page
SUF	1.5 5.2	● Highly accurate corner radius tolerance allows for high precision finishing. ● Seamless gash.	Ø10 — Ø32	PMK H	M232
SRM2	12 44	● Suitable for roughing to semi-finishing of small and medium moulds. ● High rigidity body design. ● Low resistance chipbreaker. ● Through coolant hole type.	Ø16 — Ø30	PMK SH	M236
SRM2 φ40/φ50	54 63	● Best for roughing of moulds. ● Low resistance chipbreaker. ● Highly rigid body. ■ Comparison of the comparison of th	Ø40 Ø50	PK	M244
CESP•CFSP•CGSP KAPR 60° KAPR	5.9 10.2	 Covers 5 cutting modes. Excellent sharpness with 11°positive inserts. ● 30°, 45° and 60° chamfer series. 	Ø8 — Ø32	PK	M246
TSMP 90° KAPR	11 18	 ●T-groove order number 14, 18 and 22 are available. ●86° rhombic shape 11° positive insert. ● Shoulder milling and inversed spot facing are also possible. 	Ø25 — Ø40	PK	M248
CBJP•CBMP 94° KAPR	_	 Capable of spot facing machining, boring and interpolation. For seat machining of hexagon socket head bolt (M8-M30). ●86°rhombic shape 11°positive insert. 	Ø14 — Ø48	P M K	M250
KSMG	1.2 4.5	● Side face grooving tool for machining centers. ● The minimum cutting diameter is	Ø25 Ø40	PK	M252
PMF	0.1	2 directional cutting with large overhang. Excellent straightness. Excellent wall accuracy.	Ø50 — Ø80	PK	M256
PMR	11	2 directional cutting with large overhang. Horizontal feed cutting and oblique cutting are also possible. Unique shape of curved edge gives high rigidity and low resistance.	Ø50 — Ø80	PK	M258

CLASSIFICATION OF SCREW-IN TOOLS

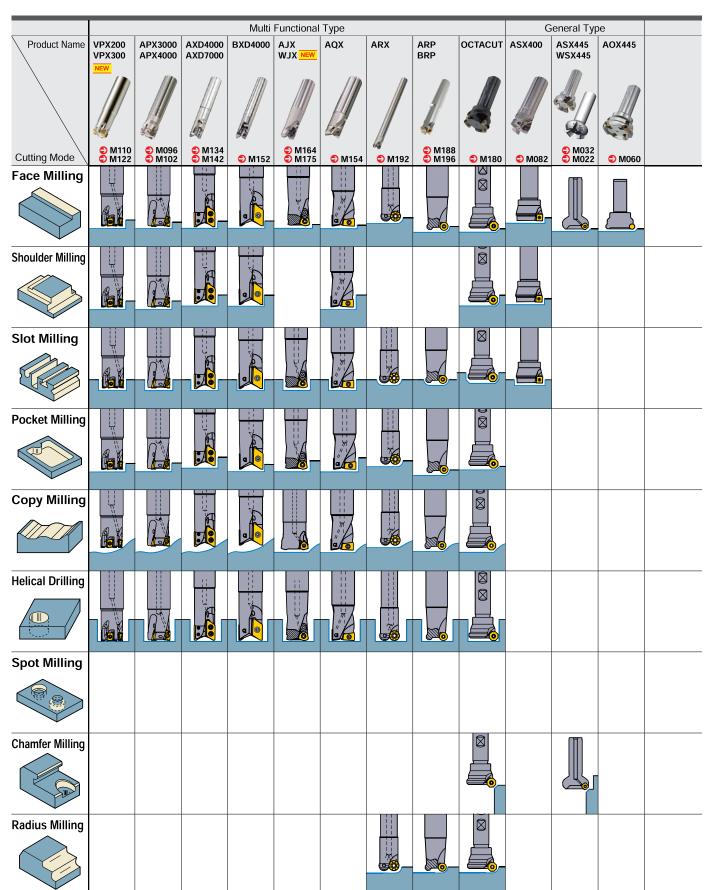
			Cutter		
Product Name · Shape	APMX (mm)	Features	Dia. (mm)	Work Material	Page
ASX400	10	High tolerance M-class inserts. Economical 4 cutting edge inserts. Curved cutting edge and high rigidity holder. Screw-on type. With through coolant holes.	Ø32 — Ø40	P M K N S H	M083
APX3000	10	High accuracy, high quality vertical wall. Low cutting force insert. With through air & coolant holes.	Ø16 — Ø40	PMK NSH	M098
APX4000	15	● High accuracy, high quality vertical wall. ● Low cutting force insert. ● With through air & coolant holes.	Ø25 — Ø40	PMK SH	M104
AQX 90° KAPR	7.4 18	● The center bottom cutting edge enables drilling without previously formed hole. ● With through coolant holes.	Ø16 — Ø40	P M K N S H	M156
VPX200 NEW 90° KAPR	8	● Special insert design with 4 cutting edges. ● High precision, high quality insert cutting edge with finishing blade. ● With through coolant holes.	Ø16 — Ø40	P M K N S H	M111
VPX300 NEW 90° KAPR	11	● Special insert design with 4 cutting edges. ● High precision, high quality insert cutting edge with finishing blade. ● With through coolant holes.	Ø25 — Ø40	P M K N S H	M123
AJX	2	● 13° and 15° positive inserts. ● High rigidity double clamp structure. ● Suitable for high feed machining. ● Special insert design with 3 cutting edges. ■ With through coolant holes.	Ø16 — Ø40	PMK SH	M166
ARP	5 6	● Run-out does not occur easily when changing sections. ● Solid clamping system. ● With through coolant holes.	Ø25 — Ø40	MS	M189
ARX	3	● 15°positive, high tolerance M-class insert. ● Effective for various machining applications. ● With through air & coolant holes.	Ø16 — Ø25	P M K	M193

M

M

CLASSIFICATION OF SCREW-IN TOOLS

Product Name · Shape	APMX (mm)	Features	Cutter Dia. (mm)	Work Material	Page
SRF/SRB	9 17	● S-shaped cutting edge provides sharpness similar to that of solid ball nose end mills. ● Highly accurate corner radius tolerance allows for high precision finishing. ● Carbide shank type available. ● With through coolant holes.	Ø16 — Ø32	PKN H	M229
SUF RAPR	2.1 5.2	 Highly accurate corner radius tolerance allows for high precision finishing. Seamless gash. With through coolant holes. 	Ø16 — Ø32	PMK	M233
SRM2	12 44	● Suitable for roughing to semi-finishing of small and medium moulds. ● High rigidity body design. ● Low resistance chipbreaker. ● With through coolant holes.	Ø16 — Ø32	PMK SH	M238
PMC	1.5 3.5	For under-cutting trimmed part of press mould. 2 directional cutting with large overhang. With through coolant holes.	Ø25 — Ø40	PK	M254



M

INDEXABLE MILLING