
























# I

## End Mill Cutter

Shoulder Face Milling Series Index	244	Surface Milling Series Index	245
<b>EAX20-O</b>	248	<b>SE50</b>	273
<b>EAX20</b>	249	<b>S45SE00</b>	274
<b>EAX30-O</b>	251	<b>EC</b>	275
<b>EAX30</b>	252	Mortising Series Index	245
<b>EAPMC00</b>	256	<b>TS00</b>	276
<b>EAPMC</b>	258	<b>TSP</b>	276
<b>EAPMC</b>	259	<b>NEW TE</b>	277
<b>EAPMD00</b>	260	<b>SC</b>	278
<b>E90AP00</b>	262	<b>SCT</b>	278
<b>EM90AP00</b>	263	Multi-Function Milling Series Index	245
<b>ED90AP00</b>	264	<b>TM45°</b>	280
<b>EAP</b>	265	<b>TM60°</b>	280
<b>SAE</b>	266	<b>TC45°</b>	281
<b>EAX</b>	267	Profile Milling Series Index	246
<b>EM90AP16</b>	268	Processing Icon Guide	246
<b>NEW EAPMD</b>	268	<b>NEW SR</b>	282
<b>EX90</b>	269	<b>EDRDH00</b>	283
<b>ESP400</b>	270	<b>ERDH</b>	283
<b>EASX400</b>	272	<b>EC00M0000</b>	285
		<b>ERDHA0R0</b>	286
		<b>EZC</b>	287



## Shoulder Face Milling Series Index

Insert Type	Tool Type	Shank Dia. (mm)	Page	Insert Type	Tool Type	Shank Dia. (mm)	Page
	EAX20-O 	Ø14 Ø25 Ø40 Ø16 Ø26 Ø50 Ø18 Ø28 Ø63 Ø20 Ø30 Ø22 Ø32	248		EAP 	Ø10 Ø16 Ø11 Ø17 Ø12 Ø20 Ø13 Ø25	265
	EAX20 	Ø14 Ø21 Ø30 Ø16 Ø22 Ø32 Ø17 Ø25 Ø33 Ø18 Ø26 Ø35 Ø20 Ø28 Ø40	249		EAX 	Ø40 Ø100 Ø50 Ø125 Ø63 Ø80	267
	EAX30-O 	Ø25 Ø35 Ø28 Ø40 Ø30 Ø50 Ø32 Ø63	251		EM90AP16 	Ø63 Ø80	268
	EAX30 	Ø25 Ø32 Ø50 Ø26 Ø33 Ø63 Ø28 Ø35 Ø30 Ø40	252		EAPMC 	Ø40 Ø100 Ø50 Ø63 Ø80	259
	EAPMC00 	Ø12 Ø21 Ø40 Ø14 Ø25 Ø50 Ø16 Ø26 Ø63 Ø17 Ø32 Ø20 Ø35	256		<b>NEW</b> EAPMD 	Ø40 Ø100 Ø50 Ø63 Ø80	268
	EAPMC 	Ø16 Ø26 Ø17 Ø33 Ø20 Ø35 Ø21 Ø25	258		EX90 	Ø50 Ø125 Ø63 Ø80 Ø100	269
	EAPMD00 	Ø25 Ø35 Ø26 Ø40 Ø28 Ø50 Ø32 Ø63 Ø33	260		ESP400 	Ø50 Ø125 Ø63 Ø80 Ø100	270
	E90AP00 	Ø12 Ø18 Ø26 Ø14 Ø20 Ø32 Ø16 Ø21 Ø35 Ø17 Ø25 Ø40	262		EASX400 	Ø50 Ø139 Ø63 Ø80 Ø100 Ø125	272
	EM90AP00 	Ø20 Ø50 Ø25 Ø32 Ø40	263		SAE 	Ø30 Ø63 Ø33 Ø40 Ø45 Ø50	266
	ED90AP00 	Ø10 Ø16 Ø25 Ø11 Ø17 Ø26 Ø12 Ø20 Ø33 Ø13 Ø21 Ø35	264				

Shoulder Face Milling Series Index

Shoulder Face Milling

Surface Milling

Morstising






Multi Function Milling

Profile Milling









**I**

END MILL CUTTER






## Surface Milling Series Index

Insert Type	Tool Type	Shank Dia. (mm)	Page	Insert Type	Tool Type	Shank Dia. (mm)	Page
 80° Diamond Type C	 SE50	Ø50	273	 EC	 EC	Ø64 Ø74 Ø94 Ø114 Ø139	275
	 S45SE00	Ø50 Ø125 Ø63 Ø160 Ø80 Ø100	274				












## Mortising Series Index

Insert Type	Tool Type	Shank Dia. (mm)	Page	Insert Type	Tool Type	Shank Dia. (mm)	Page
 80° Diamond Type C	 TS00	Ø20 Ø40 Ø25 Ø50 Ø30 Ø35	276	 90° Square Type S	 SC	Ø100 Ø126 Ø160 Ø200	278
	 TSP	Ø20 Ø40 Ø25 Ø50 Ø30 Ø35	276		 SCT	Ø160 Ø200	278
 Shallow Grooving Insert	 NEW TE	Ø25 Ø30 Ø38	277				














## Multi-Function Milling Series Index

Insert Type	Tool Type	Shank Dia. (mm)	Page	Insert Type	Tool Type	Shank Dia. (mm)	Page
 Triangular Type T	 TM45°	Ø21 Ø31 Ø48.8 Ø63.8	280	 Triangular Type T	 TC45°	Ø25 Ø30 Ø40	281
	 TM60°	Ø21 Ø31 Ø48.8 Ø63.8	280				

## Profile Milling Series Index

Insert Type	Tool Type	Shank Dia. (mm)	Page	Insert Type	Tool Type	Shank Dia. (mm)	Page
	EDRDH00 	Ø16 Ø26 Ø17 Ø30 Ø20 Ø32 Ø21 Ø35 Ø25	283	 Hexagon Type W	EZC 	Ø16 Ø32 Ø18 Ø35 Ø20 Ø40 Ø22 Ø50 Ø25 Ø63 Ø28	287
 Round Type R	EC00M00000 	<b>Shank Dia. (mm)</b> Ø8 Ø20 Ø10 Ø25 Ø12 Ø32 Ø16	285	 Round Type R	ERDH 	Ø50 Ø63	283
	ERDHA0R0 	Ø10 Ø17 Ø30 Ø11 Ø20 Ø32 Ø12 Ø21 Ø35 Ø13 Ø25 Ø16 Ø26	286	 XPHT	 NEW SR 	Ø16 Ø20	282

## Processing Icon Guide

Icon	Explanation	Icon	Explanation	Icon	Explanation
	Right angle Drilling		Surface Milling		R Corner Slotced
	Chamfer Of Rounding Hole		Profilemilling		R Corner Side Milling
	Slot Milling		Full Slot		R Slot
	T Type		Angular Plunge Grinding		
	Side Milling		Slab Milling		

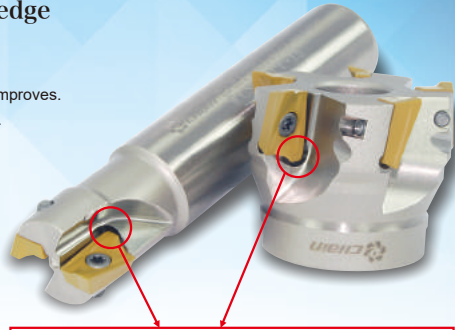
# EAX series

## Precision insert with strong cutting edge and low cutting force design

Unique curved cutting edge design lowers cutting force yet improves. Achieving high quality finish with high precision cutting edge. Smooth cutting even for deep grooves and low rigidity machines.

## Highly durable body

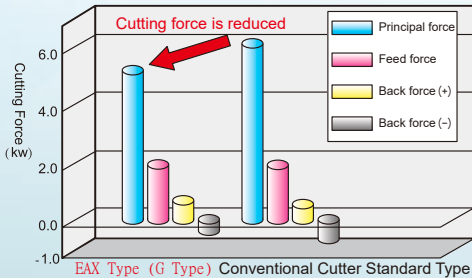
Special surface treatment improves corrosion resistance and scratch resistance. Increased screw size improves clamping force and durability.



## Internal coolant-holes are a standard feature for the whole series

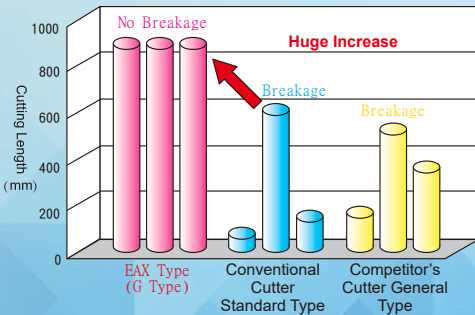
Improved chip evacuation with air or coolant supply.

## Cutting force | Cutting resistance (main component) is approx 15% lower than conventional cutters.

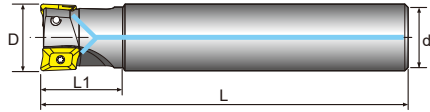
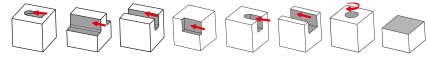


Cutting conditions  
 Work material : S50C  
 Tool : EAX3035E (Ø32)  
 Insert : AXMT170508PEER-G  
 Grade : ACP200  
 Cutting speed :  $V_c=200\text{m/min}$   
 Feed rate :  $f_z=0.2\text{mm/t}$  ( $V_f=1,200\text{mm/min}$ )  
 Cutting width :  $a_e=8\text{mm}$   
 Cutting depth :  $a_p=10\text{mm}$

## Fracture resistance | Huge increase in fracture resistance with improved cutting edge strength.



Cutting conditions  
 Work material : SCM440  
 Tool : EAX3032E (Ø32)  
 Insert : AXMT170508PEER-G  
 Cutting speed :  $V_c=100\text{m/min}$   
 Feed rate :  $f_z=0.4\text{mm/t}$  ( $V_f=1,260\text{mm/min}$ )  
 Cutting width :  $a_e=25\text{mm}$   
 Cutting depth :  $a_p=3\text{mm}$

**EAX20-O** EDX End Mill


Model No	Stock	D	d	L	L1	INO	Insert	Screw	Wrench	Price
EAX2014E-80-O	●	14	16	80	25	1	AX□□1235□□	CS30A	T-8	
EAX2016E-100-O	●	16	16	100	25	2				
EAX2018E-100-O	●	18	16	100	25	2				
EAX2020E-100-2T-O	●	20	20	100	30	2				
EAX2020E-110-O	●	20	20	110	30	3				
EAX2022E-110-O	●	22	20	110	30	3				
EAX2025E-120-O	●	25	25	120	35	4				
EAX2028E-120-O	●	28	25	120	35	4				
EAX2030E-120-O	●	30	25	120	35	4				
EAX2032E-130-O	●	32	32	130	40	5				
EAX2040E-150-O	●	40	32	150	30	6				
EAX2050E-150-O	●	50	32	150	30	7				
EAX2063E-150-O	●	63	32	150	30	8				
EAX2014EL-120-O	●	14	16	120	25	1				
EAX2016EL-145-O	●	16	16	145	25	2				
EAX2018EL-145-O	●	18	16	145	25	2				
EAX2020EL-150-O	●	20	20	150	40	3				
EAX2022EL-150-O	●	22	20	150	30	3				
EAX2025EL-170-O	●	25	25	170	50	4				
EAX2026EL-200-O	●	26	25	200	50	4				
EAX2028EL-170-O	●	28	25	170	30	4				
EAX2030EL-170-O	●	30	25	170	30	4				
EAX2032EL-180-O	●	32	32	180	60	5				
EAX2040EL-180-O	●	40	32	180	30	6				
EAX2040EL-180-6T-O	●	40	32	180	30	6				

●-O : Oil hole  
 ●Only sell in Taiwan, China, Malaysia.

 EAX  
 EDX  
 M

 Shoulder  
 Face  
 Milling

 Surface  
 Milling

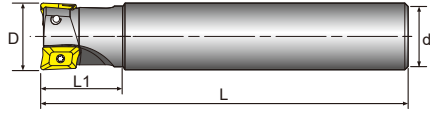
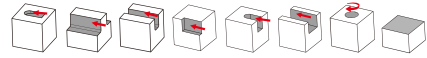
Morstising

 Multi  
 Function  
 Milling

 Profile  
 Milling

**I**  
 END MILL  
 CUTTER

# EAX20 EDX End Mill



Model No	Stock	D	d	L	L1	INO	Insert	Screw	Wrench	Price
EAX2014E-80	●	14	16	80	25	1	AX□□1235□□	CS30A	T-8	
EAX2016E-100	●	16	16	100	25	2				
EAX2018E-100	●	18	16	100	25	2				
EAX2020E-110	●	20	20	110	30	3				
EAX2022E-110	●	22	20	110	30	3				
EAX2025E-120	●	25	25	120	35	4				
EAX2028E-120	●	28	25	120	35	4				
EAX2030E-120	●	30	25	120	35	4				
EAX2032E-130	●	32	32	130	40	5				
EAX2040E-150	●	40	32	150	30	6				
EAX2050E-150	●	50	32	150	30	7				
EAX2063E-150	●	63	32	150	30	8				
EAX2014EL-120	●	14	16	120	25	1				
EAX2016EL-145	●	16	16	145	25	2				
EAX2017EL-145	●	17	16	145	25	2				
EAX2017EL-150	●	17	16	150	25	2				
EAX2018EL-145	●	18	16	145	25	2				
EAX2020EL-150	●	20	20	150	40	3				
EAX2021EL-150	●	21	20	150	40	2				
EAX2021EL-200	●	21	20	200	40	2				
EAX2021EL-250	●	21	20	250	40	2				
EAX2021EL-150-3T	●	21	20	150	40	3				
EAX2021EL-200-3T	●	21	20	200	40	3				
EAX2021EL-250-3T	●	21	20	250	40	3				
EAX2022EL-150	●	22	20	150	30	3				
EAX2025EL-170	●	25	25	170	50	2				
EAX2025EL-170-4T	●	25	25	170	50	4				
EAX2026EL-150	●	26	25	150	35	2				

EAX  
EDX  
M  
i

Shoulder  
Face  
Milling

Surface  
Milling

Morsisting

Multi  
Function  
Milling

Profile  
Milling

I  
END MILL  
CUTTER

※ Continued on next page.

Shoulder  
Face  
Milling




 Surface  
Milling

Morstising

 Multi  
Function  
Milling

 Profile  
Milling

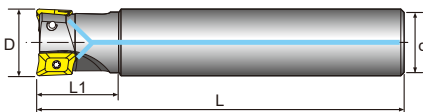
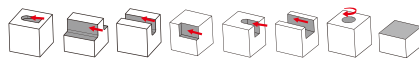
**I**  
 END MILL  
 CUTTER

Model No	Stock	D	d	L	L1	INO	Insert 	Screw 	Wrench 	Price
EAX2026EL-200	●	26	25	200	35	2	AX□□1235□□	CS30A	T-8	
EAX2026EL-250	●	26	25	250	35	2				
EAX2026EL-150-4T	●	26	25	150	35	4				
EAX2026EL-200-4T	●	26	25	200	35	4				
EAX2026EL-250-4T	●	26	25	250	35	4				
EAX2028EL-170	●	28	25	170	30	2				
EAX2030EL-170	●	30	25	170	30	2				
EAX2032EL-180-4T	●	32	32	180	60	4				
EAX2032EL-180	●	32	32	180	60	5				
EAX2033EL-150	●	33	32	150	40	5				
EAX2033EL-200	●	33	32	200	40	5				
EAX2033EL-250	●	33	32	250	40	5				
EAX2033EL-300	●	33	32	300	40	5				
EAX2035EL-150	●	35	32	150	40	5				
EAX2035EL-200	●	35	32	200	40	5				
EAX2035EL-250	●	35	32	250	40	5				
EAX2035EL-300	●	35	32	300	40	5				
EAX2040EL-180	●	40	32	180	30	6				

●Only sell in Taiwan, China, Malaysia.



# EAX30-O EDX End Mill



Model No	Stock	D	d	L	L1	INO	Insert	Screw	Wrench	Price
EAX3025E-20-120-O	●	25	20	120	35	2	AX□□1705□□	CS40	T-15	
EAX3025E-120-O	●	25	25	120	35	2				
EAX3028E-120-O	●	28	25	120	35	2				
EAX3030E-130-O	●	30	25	130	40	3				
EAX3032E-25-130-O	●	32	25	130	40	3				
EAX3032E-130-O	●	32	32	130	40	3				
EAX3035E-130-O	●	35	32	130	40	3				
EAX3040E-170-O	●	40	32	170	50	4				
EAX3050E-170-O	●	50	32	170	50	5				
EAX3063E-170-O	●	63	32	170	50	6				
EAX3050ES-135-O	●	50	32	135	25	5				
EAX3050ES-42-135-O	●	50	42	135	25	5				
EAX3063ES-135-O	●	63	32	135	25	6				
EAX3063ES-42-135-O	●	63	42	135	25	6				
EAX3025EL-170-O	●	25	25	170	50	2				
EAX3028EL-170-O	●	28	25	170	50	2				
EAX3030EL-180-O	●	30	25	180	60	2				
EAX3030EL-O-3T	●	30	25	180	60	3				
EAX3032EL-180-O	●	32	32	180	60	2				
EAX3035EL-180-O	●	35	32	180	60	3				
EAX3040EL-220-O	●	40	32	220	80	2				
EAX3040E-C-170-O	●	40	32	170	50	3				
EAX3050E-C-170-O	●	50	32	170	50	3				
EAX3063E-C-170-O	●	63	32	170	50	4				
EAX3050ES-C-135-O	●	50	32	135	25	3				
EAX3050ES-C-42-135-O	●	50	42	135	25	3				
EAX3063-ES-C-135-O	●	63	32	135	25	4				
EAX3063-ES-C-42-135-O	●	63	42	135	25	4				

●-O : Oil hole  
 ●Only sell in Taiwan, China, Malaysia.

EAX  
EDM  
I

Shoulder  
Face  
Milling

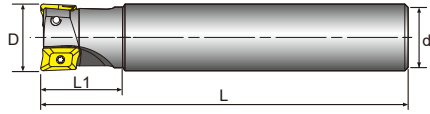
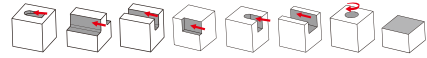
Surface  
Milling

Morsisting

Multi  
Function  
Milling

Profile  
Milling

**I**  
END MILL  
CUTTER

**EAX30** EDX End Mill

 EAX  
EDM  
i

 Shoulder  
Face  
Milling

 Surface  
Milling




Morstising

 Multi  
Function  
Milling

 Profile  
Milling

**I**

 END MILL  
CUTTER

Model No	Stock	D	d	L	L1	INO	Insert 	Screw 	Wrench 	Price
EAX3025E-20-120	●	25	20	120	35	2	AX□□1705□□	CS40	T-15	
EAX3025E-120	●	25	25	120	35	2				
EAX3028E-120	●	28	25	120	35	2				
EAX3030E-130	●	30	25	130	40	3				
EAX3032E-25-130	●	32	25	130	40	3				
EAX3032E-130	●	32	32	130	40	3				
EAX3035E-130	●	35	32	130	40	3				
EAX3040E-170	●	40	32	170	50	4				
EAX3050E-170	●	50	32	170	50	5				
EAX3063E-170	●	63	32	170	50	6				
EAX3050ES-135	●	50	32	135	25	5				
EAX3050ES-42-135	●	50	42	135	25	5				
EAX3063ES-135	●	3	32	135	25	6				
EAX3063ES-42-135	●	63	42	135	25	6				
EAX3025EL-170	●	25	25	170	50	2				
EAX3026EL-150	●	26	25	150	35	2				
EAX3026EL-200	●	26	25	200	35	2				
EAX3026EL-250	●	26	25	250	35	2				
EAX3026EL-300	●	26	25	300	35	2				
EAX3028EL-170	●	28	25	170	50	2				
EAX3030EL-180	●	30	25	180	60	3				
EAX3032EL-180	●	32	32	180	60	2				
EAX3033EL-150	●	33	32	150	40	2				
EAX3033EL-200	●	33	32	150	40	2				
EAX3033EL-250	●	33	32	200	40	2				
EAX3033EL-300	●	33	32	250	40	2				
EAX3033EL-350	●	33	32	300	40	2				
EAX3033EL-150-3T	●	33	32	350	40	3				

※ Continued on next page.



EAX  
E  
D  
M  
I

Shoulder  
Face  
Milling




Surface  
Milling

Morsisting

Multi  
Function  
Milling

Profile  
Milling

**I**  
END MILL  
CUTTER

Model No	Stock	D	d	L	L1	INO	Insert 	Screw 	Wrench 	Price
EAX3033EL-200-3T	●	33	32	150	40	3	AX□□1705□□	CS40	T-15	
EAX3033EL-250-3T	●	33	32	200	40	3				
EAX3033EL-300-3T	●	33	32	300	40	3				
EAX3033EL-350-3T	●	33	32	350	40	3				
EAX3035EL-150	●	35	32	150	40	2				
EAX3035EL-200	●	35	32	200	40	2				
EAX3035EL-250	●	35	32	250	40	2				
EAX3035EL-300	●	35	32	300	40	2				
EAX3035EL-350	●	35	32	350	40	2				
EAX3035EL-150-3T	●	35	32	150	40	3				
EAX3035EL-180-3T	●	35	32	180	60	3				
EAX3035EL-200-3T	●	35	32	200	40	3				
EAX3035EL-250-3T	●	35	32	250	40	3				
EAX3035EL-300-3T	●	35	32	300	40	3				
EAX3035EL-350-3T	●	35	32	350	40	3				
EAX3040EL-220	●	40	32	220	80	4				
EAX3040E-C-170	●	40	32	170	50	3				
EAX3050E-C-170	●	50	32	170	50	3				
EAX3063E-C-170	●	63	32	170	50	4				
EAX3050ES-C-135	●	50	32	135	25	3				
EAX3050ES-C-42-135	●	50	42	135	25	3				
EAX3063ES-C-135	●	63	32	135	25	4				
EAX3063ES-C-42-135	●	63	42	135	25	4				

●Only sell in Taiwan, China, Malaysia.

## Recommend Material Grades For Turning

Workpiece			Diameter		
			10-22mm	25-40mm	50-63mm
<b>P</b> Steel	Mild Steel (SS400)	<b>V</b>	80- <b>100</b> -120	100- <b>150</b> -180	100- <b>150</b> -180
		<b>f</b>	0.08- <b>0.10</b> -0.15	0.10- <b>0.12</b> -0.20	0.10- <b>0.12</b> -0.20
<b>M</b> Stainless steel	Stainless Steel (SUS304)	<b>V</b>	70- <b>100</b> -120	80- <b>140</b> -160	80- <b>140</b> -160
		<b>f</b>	0.08- <b>0.10</b> -0.15	0.10- <b>0.12</b> -0.20	0.10- <b>0.12</b> -0.20
<b>K</b> Cast	Cast Iron (FC250)	<b>V</b>	80- <b>100</b> -120	100- <b>150</b> -180	100- <b>150</b> -180
		<b>f</b>	0.08- <b>0.10</b> -0.15	0.10- <b>0.15</b> -0.20	0.10- <b>0.15</b> -0.20
<b>N</b> Alloy	(ADC12)	<b>V</b>	200- <b>300</b> -500	200- <b>500</b> -1000	200- <b>500</b> -1000
		<b>f</b>	0.08- <b>0.10</b> -0.15	0.10- <b>0.15</b> -0.20	0.10- <b>0.15</b> -0.20

- (V=m/min) (Min. – Optimum – Max.)
- (N)=[1000 x (V)]÷[3.14 x (D)]
- (F)=[(f) x (Z) x (N)]

Shoulder  
Face  
Milling

Surface  
Milling

Forming

Multi  
Function  
Milling

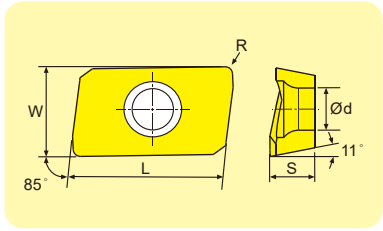
Profile  
Milling

I


END MILL  
CUTTER

# APMT APMT INSERT


Dimension	
L : 11.25	S : 3.5
	Ød : 2.8



- Standard Stocks
- \* limited sales for some areas
- ◆ Grade Ref. Page-D
- ◆ Chipbreaker Ref. Page-F-H
- ◆ Cutting condition Ref. Page-I

Shape	Model No	R	W	Carbide Coated								
				P					K			
				ECP100	ECP200	ECP300	ECM100	ECM200	ECK100	ECK200	ECK300	
	APMT1135PDER-J2	0.8	6.2				●				●	

Dimension	
L : 17.25	S : 4.76
	Ød : 4.4

Shape	Model No	R	W	Carbide Coated								
				P					K			
				ECP100	ECP200	ECP300	ECM100	ECM200	ECK100	ECK200	ECK300	
	APMT1604PDER-J2	0.8	9.25				●					

APMT INSERT

Shoulder Face Milling

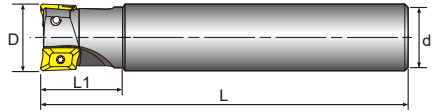
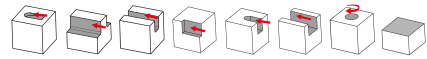
Surface Milling

Morsising

Multi Function Milling

Profile Milling

**I**  
END MILL CUTTER

**EAPMC00** E End Mill


Model No	Stock	D	d	L	L1	INO	Insert	Screw	Wrench	Price
EAPMC11-D12-100	●	12	12	100	25	1	AP□□1135□□	CS25	T-8	
EAPMC11-D14-80		14	16	80	25	1				
EAPMC11-D14-100	●	14	16	100	25	1				
EAPMC11-D14-120		14	16	120	25	1				
EAPMC11-D14.5-100		14.5	16	100	25	1				
EAPMC11-D16-150	●	16	16	150	25	2				
EAPMC11-D17-150	●	17	16	150	25	2				
EAPMC11-D18-100		18	16	100	25	2				
EAPMC11-D18-150		18	16	150	25	2				
EAPMC11-D20-110		20	20	110	30	3				
EAPMC11-D20-150	●	20	20	150	30	3				
EAPMC11-D21-150	●	21	20	150	30	3				
EAPMC11-D21-200		21	20	200	30	3				
EAPMC11-D21-250		21	20	250	30	3				
EAPMC11-D22-110		22	20	110	30	3				
EAPMC11-D22-150	●	22	20	150	30	3				
EAPMC11-D25-120		25	25	120	35	4				
EAPMC11-D25-120-3T		25	25	120	35	3				
EAPMC11-D25-150	●	25	25	150	35	4				
EAPMC11-D25-170		25	25	170	35	4				
EAPMC11-D25-200	●	25	25	200	35	4				
EAPMC11-D26-150		26	25	150	35	4				
EAPMC11-D26-200		26	25	200	35	4				
EAPMC11-D26-250-2T		26	25	250	35	2				
EAPMC11-D26-250		26	25	250	35	4				
EAPMC11-D28-120		28	25	120	35	4				
EAPMC11-D28-170-2T		28	25	170	35	2				
EAPMC11-D28-170	●	28	25	170	35	4				

※ Continued on next page.

 E  
E  
D  
M

 Shoulder  
Face  
Milling

 Surface  
Milling

Morstising




 Multi  
Function  
Milling

 Profile  
Milling

I

 END MILL  
CUTTER



Model No	Stock	D	d	L	L1	INO	Insert 	Screw 	Wrench 	Price
EAPMC11-D30-120	●	30	25	120	35	4	AP□□1135□□	CS25	T-8	
EAPMC11-D30-150		30	25	150	35	4				
EAPMC11-D32-130		32	32	130	35	5				
EAPMC11-D32-150	●	32	32	150	35	5				
EAPMC11-D32-180		32	32	180	35	5				
EAPMC11-D33-150		33	32	150	40	5				
EAPMC11-D33-200		33	32	200	40	5				
EAPMC11-D33-250	●	33	32	250	40	5				
EAPMC11-D33-300	●	33	32	300	40	5				
EAPMC11-D35-150		35	32	150	40	5				
EAPMC11-D35-200		35	32	200	40	5				
EAPMC11-D35-250		35	32	250	40	5				
EAPMC11-D35-300		35	32	300	40	5				
EAPMC11-D40-150		40	32	150	40	6				
EAPMC11-D50-150		50	32	150	40	7				
EAPMC11-D63-150	●	63	32	150	40	8				

●Insert Detail : AP□□1135□□→Ref.Page-255

E  
E  
D  
M  
I

Shoulder  
Face  
Milling

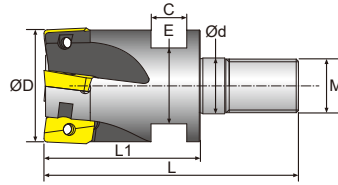
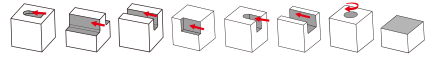
Surface  
Milling

Morstising

Multi  
Function  
Milling

Profile  
Milling

I  
END MILL  
CUTTER

**EAPMC** EAPMC Exchangeable Head End Mill


EAPMC Exchangeable Head End Mill

Model No	Stock	D	d	L1	L	M	C	E	INO	Insert	Screw	Wrench	Price
EAPMC1116Z2	●	16	8.5	30	47	8	8	10	2	AP□□ 1135□□	CS25	T-8	
EAPMC1117Z2	●	17	8.5	30	47	8	8	10	2				
EAPMC1120Z3	●	20	10.5	30	49	10	8	15	3				
EAPMC1121Z2	●	21	10.5	30	49	10	8	15	2				
EAPMC1121Z3	●	21	10.5	30	49	10	8	15	3				
EAPMC1125Z4	●	25	12.5	35	57	12	8	17	4				
EAPMC1126Z3	●	26	12.5	35	57	12	8	17	3				
EAPMC1126Z4	●	26	12.5	35	57	12	8	17	4				
EAPMC1133Z4	●	33	17	40	63	16	11	26	4				
EAPMC1133Z5	●	33	17	40	63	16	11	26	5				
EAPMC1135Z5	●	35	17	40	63	16	11	26	5				

● Arbor Refer Page-288

● Insert Detail : AP□□1135□□→Ref.Page-255

 Shoulder  
Face  
Milling

 Surface  
Milling

Morstising

 Multi  
Function  
Milling

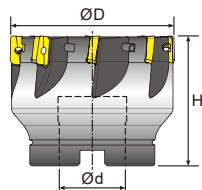
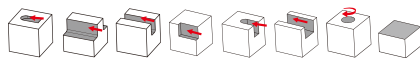
 Profile  
Milling




**I**

 END MILL  
CUTTER



# EAPMC EAPMC High Speed Milling Cutter



Model No	Stock	D	H	d	INO	Insert 	Screw 	Wrench 	Price
EAPMC11-D40B06	●	40	40	16	6	AP□□1135□□	CS25	T-8	
EAPMC11-D50B07	●	50	40	22	7				
EAPMC11-D63A08	●	63	50	25.4	8				
EAPMC11-D63B08	●	63	50	22	8				
EAPMC11-D80A10	●	80	50	25.4	10				
EAPMC11-D80B10	●	80	50	27	10				
EAPMC11-D100A12	●	100	50	31.75	12				
EAPMC11-D100B12	●	100	50	32	12				

●Insert Detail : AP□□1135□□→Ref.Page-255

EAPMC High Speed Milling Cutter

Shoulder Face Milling

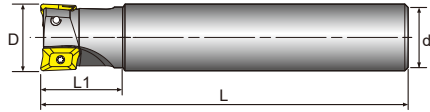
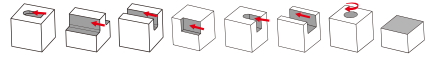
Surface Milling

Morstising

Multi Function Milling

Profile Milling

**I**  
END MILL CUTTER

**EAPMD00** E End Mill

**E  
E  
N  
D  
M  
I  
L**

 Shoulder  
Face  
Milling




 Surface  
Milling

Morstising

 Multi  
Function  
Milling




 Profile  
Milling

**I**
**END MILL  
CUTTER**

Model No	Stock	D	d	L	L1	INO	Insert 	Screw 	Wrench 	Price
EAPMD16-D25-120		25	25	120	35	2	AP□□1604□□	CS40	T-15	
EAPMD16-D25-150	●	25	25	150	35	2				
EAPMD16-D25-170		25	25	170	35	2				
EAPMD16-D25-200	●	25	25	200	35	2				
EAPMD16-D26-150		26	25	150	35	2				
EAPMD16-D26-200		26	25	200	35	2				
EAPMD16-D26-250		26	25	250	35	2				
EAPMD16-D26-300		26	25	300	35	2				
EAPMD16-D28-120		28	25	120	35	2				
EAPMD16-D28-170		28	25	170	35	2				
EAPMD16-D30-130		30	25	130	35	3				
EAPMD16-D30-150	●	30	25	150	35	3				
EAPMD16-D30-180		30	25	180	35	3				
EAPMD16-D32-130		32	32	130	35	3				
EAPMD16-D32-25-130		32	25	130	35	3				
EAPMD16-D32-150	●	32	32	150	35	3				
EAPMD16-D32-180		32	32	180	35	3				
EAPMD16-D32-200	●	32	32	200	35	3				
EAPMD16-D32-200-2T	●	32	32	200	35	2				
EAPMD16-D33-150-2T		33	32	150	35	2				
EAPMD16-D33-150		33	32	150	35	3				
EAPMD16-D33-200-2T	●	33	32	200	35	2				
EAPMD16-D33-200		33	32	200	35	3				
EAPMD16-D33-250-2T	●	33	32	250	35	2				
EAPMD16-D33-250		33	32	250	35	3				
EAPMD16-D33-300-2T		33	32	300	35	2				
EAPMD16-D33-300		33	32	300	35	3				
EAPMD16-D33-350-2T		33	32	350	35	2				

※ Continued on next page.



Model No	Stock	D	d	L	L1	INO	Insert 	Screw 	Wrench 	Price
EAPMD16-D33-350		33	32	350	35	3	AP□□1604□□	CS40	T-15	
EAPMD16-D35-130		35	32	130	40	3				
EAPMD16-D35-150-2T		35	32	150	40	2				
EAPMD16-D35-150		35	32	150	40	3				
EAPMD16-D35-180		35	32	180	40	3				
EAPMD16-D35-200-2T		35	32	200	40	2				
EAPMD16-D35-200		35	32	200	40	3				
EAPMD16-D35-250-2T		35	32	250	40	2				
EAPMD16-D35-250		35	32	250	40	3				
EAPMD16-D35-300-2T		35	32	300	40	2				
EAPMD16-D35-300		35	32	300	40	3				
EAPMD16-D35-350		35	32	350	40	3				
EAPMD16-D40-150		40	32	150	40	4				
EAPMD16-D40-200		40	32	200	40	4				
EAPMD16-D50-135		50	32	135	50	5				
EAPMD16-D50-150	●	50	32	150	50	5				
EAPMD16-D50-170		50	32	170	50	5				
EAPMD16-D63-135		63	32	135	50	6				
EAPMD16-D63-170		63	32	170	50	6				

●Insert Detail : AP□□1604□□→Ref.Page-255

E  
E  
D  
M  
I

Shoulder  
Face  
Milling

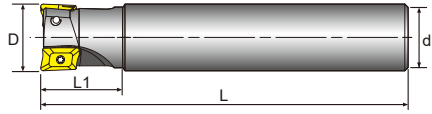
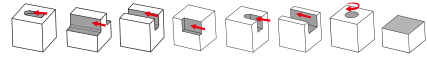
Surface  
Milling

Morstising

Multi  
Function  
Milling

Profile  
Milling

**I**  
END MILL  
CUTTER

**E90AP00** E End Mill


Model No	Stock	D	d	L	L1	INO	Insert	Screw	Wrench	Price
E90AP10-D12-90	●	12	12	90	25	1	AP□□1035□□	CS25	T-8	
E90AP10-D12-100	●	12	12	100	25	1				
E90AP10-D14-80	●	14	16	80	25	1				
E90AP10-D15-90	●	15	16	90	25	2				
E90AP10-D16-90	●	16	16	90	25	2				
E90AP10-D16-150	●	16	16	150	25	2				
E90AP10-D17-150	●	17	16	150	25	2				
E90AP10-D18-90	●	18	16	90	25	2				
E90AP10-D20-110	●	20	20	110	30	3				
E90AP10-D20-150	●	20	20	150	30	3				
E90AP10-D21-150	●	21	20	150	25	3				
E90AP10-D25-120	●	25	25	120	35	4				
E90AP10-D25-150	●	25	25	150	35	4				
E90AP10-D25-200	●	25	25	200	35	4				
E90AP10-D26-150	●	26	25	150	35	4				
E90AP10-D32-150	●	32	32	150	35	5				
E90AP10-D35-150	●	35	32	150	35	5				
E90AP16-D25-120	●	25	25	120	35	2	AP□□1605□□	CS35	T-15	
E90AP16-D25-150	●	25	25	150	35	2				
E90AP16-D25-200	●	25	25	200	35	2				
E90AP16-D32-150	●	32	32	150	40	3				
E90AP16-D32-200	●	32	32	200	40	3				
E90AP16-D40-150	●	40	32	150	50	4				
E90AP16-D50-150	●	50	32	150	50	5				

 E  
E  
R  
M  
i

 Shoulder  
Face  
Milling

 Surface  
Milling

Morstising

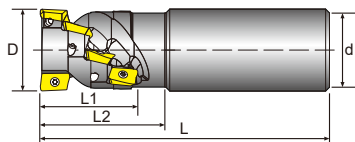
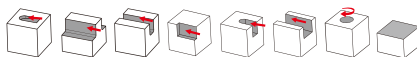
 Multi  
Function  
Milling

 Profile  
Milling

**I**

 END MILL  
CUTTER

# EM90AP00 EM Roughing Milling Cutter



Model No	Stock	D	d	L	L1	L2	INO	Insert	Screw	Wrench	Price
EM90AP10-D20	●	20	20	120	25	35	2R6T	AP□□1035□□	CS25	T-8	
EM90AP10-D25	●	25	25	130	35	45	2R8T				
EM90AP10-D32	●	32	32	140	44	55	3R15T				
EM90AP10-D32-200	●	32	32	200	44	55	3R15T				
EM90AP10-D40	●	40	32	150	53	65	3R21T				
EM90AP16-D40	●	40	42	150	49	65	3R12T	AP□□1605□□	CS35	T-15	
EM90AP16-D40-32	●	40	32	150	49	65	3R12T				
EM90AP16-D50	●	50	42	165	61	75	3R15T				

EM Roughing Milling Cutter

Shoulder Face Milling

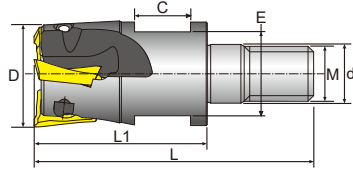
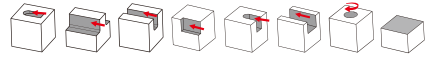
Surface Milling

Morstising

Multi Function Milling

Profile Milling

**I**  
END MILL CUTTER

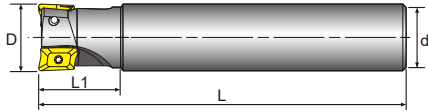
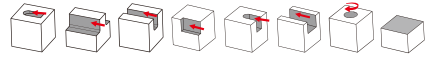
**ED90AP00** ED Exchangeable Head End Mill


ED Exchangeable Head Mill

Model No	Stock	D	d	L1	L	M	C	E	INO	Insert	Screw	Wrench	Price		
EDAX1216Z2	●	16	8.5	30	47	8	8	10	2	AX□□1235□□	CS30A	T-8			
EDAX1217Z2	●	17	8.5	30	47	8	8	10	2						
EDAX1220Z3	●	20	10.5	30	49	10	8	15	3						
EDAX1221Z2	●	21	10.5	30	49	10	8	15	2						
EDAX1221Z3	●	21	10.5	30	49	10	8	15	3						
EDAX1225Z4	●	25	12.5	35	57	12	8	17	4						
EDAX1226Z3	●	26	12.5	35	57	12	8	17	3						
EDAX1226Z4	●	26	12.5	35	57	12	8	17	4						
EDAX1233Z4	●	33	17	40	63	16	11	26	4						
EDAX1233Z5	●	33	17	40	63	16	11	26	5						
EDAX1235Z5	●	35	17	40	63	16	11	26	5						
EDAX1726Z2	●	26	12.5	35	57	12	8	17	2	AX□□1705□□	CS40	T-15			
EDAX1733Z2	●	33	17	40	63	16	11	26	2						
EDAX1733Z3	●	33	17	40	63	16	11	26	3						
EDAX1735Z2	●	35	17	40	63	16	11	26	2						
EDAX1735Z3	●	35	17	40	63	16	11	26	3						
ED90AP10-D16	●	16	8.5	30	47	8	8	10	2	AP□□1035□□	CS25	T-8			
ED90AP10-D17	●	17	8.5	30	47	8	8	10	2						
ED90AP10-D20	●	20	10.5	30	49	10	8	15	3						
ED90AP10-D21	●	21	10.5	30	49	10	8	15	3						
ED90AP10-D25	●	25	12.5	35	57	12	8	17	4						
ED90AP10-D26-3T	●	26	12.5	35	57	12	8	17	3						
ED90AP10-D26	●	26	12.5	35	57	12	8	17	4						
ED90AP10-D35	●	35	17	40	63	16	11	26	5						
EDAPHA07-D10	●	10	5.5	18	34.5	5	5.5	7	2	JD□□0702□□	CS18	T-6			
EDAPHA07-D11	●	11	5.5	18	34.5	5	5.5	7	2						
EDAPHA07-D12	●	12	6.5	19	34.5	6	6	8	2						
EDAPHA07-D12-3T	●	12	6.5	19	34.5	6	6	8	3						
EDAPHA07-D13	●	13	6.5	19	34.5	6	6	8	2						
EDAPHA07-D13-3T	●	13	6.5	19	34.5	6	6	8	3						
EDAPHA07-D16	●	16	8.5	25	47	8	8	10	4						
EDAPHA07-D17	●	17	8.5	25	47	8	8	10	4						

● Arbor Refer Page-285

● Only sell in Taiwan, China, Malaysia.



Model No	Stock	D	d	L	L1	INO	Insert	Screw	Wrench	Price
EAPHA07-D10-120	●	10	10	120	15	2	JD□□0702□□	CS18	T-6	
EAPHA07-D11-120	●	11	10	120	15	2				
EAPHA07-D12-100	●	12	12	100	15	3				
EAPHA07-D12-150	●	12	12	150	15	2				
EAPHA07-D13-100	●	13	12	100	15	3				
EAPHA07-D13-150	●	13	12	150	15	2				
EAPHA07-D13-150-3T	●	13	12	150	15	3				
EAPHA07-D16-150	●	16	16	150	20	4				
EAPHA07-D17-150	●	17	16	150	15	4				

- Insert Detail : JD□□0702□□→Ref.Page-265
- ○ : Oil hole

Shoulder Face Milling

Surface Milling

Morstrising

Multi Function Milling

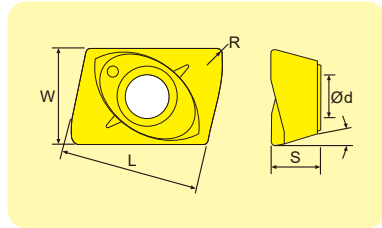
Profile Milling

**I**  
END MILL CUTTER

JDMT JDMT INSERT



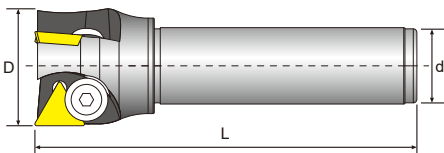
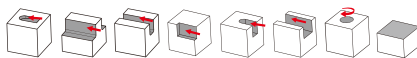
Dimension	
L : 6.4	S : 2.45
IC : 4.3	Ød : 4.4



- ◆ Grade Ref.Page-D
- ◆ Chipbreaker Ref.Page-F-H
- ◆ Cutting condition Ref.Page-I

Carbide Coated

Shape	Model No	R	P				
			JP4105	JP4120	JM4160	PTH30E	M
	JDMT070202R	0.2	●	●	●	●	●
	JDMT070204R	0.4	●	●	●	●	●

**SAE** SAE Shoulder End Mill


Model No	Stock	D	d	L	Insert	Screw	Wrench	Price
SAE-30	●	30	20	120	TP□□1603□□	TP-W1/4	LW040	
SAE-35	●	35	20	120				
SAE-40	●	40	20	120				
SAE-45	●	45	20	150				
SAE-50	●	50	32	150	TP□□2204□□	TP-W5/16	LW050	
SAE-63	●	63	32	150				

● Insert Detail : TP□□2204□□ → Ref. Page-266

SAE Shoulder End Mill

Shoulder Face Milling

Surface Milling

Morstising

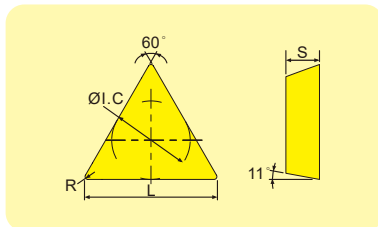
Multi Function Milling

Profile Milling


**TPMN** TPMN INSERT 

Dimension (mm)	
L : 22	S : 4.76
IC : 12.7	

- Standard Stocks
- ◆ Grade Ref. Page-D
- ◆ Chipbreaker Ref. Page-F-H
- ◆ Cutting condition Ref. Page-I



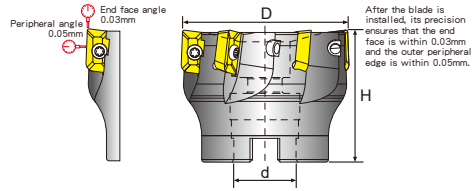
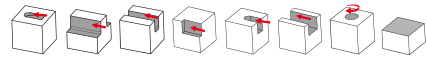
Carbide Coated

Shape	Model No	R	P			K		
			ECP100	ECP200	ECP300	ECM100	ECM200	ECM300
	TPMN220412	1.2	●					



# EAX EAX High Speed Shoulder Face Milling Cutter

**New Specification Arrival**



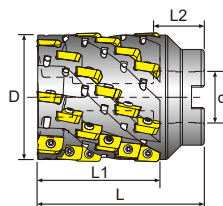
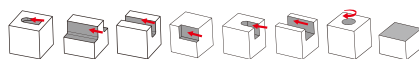
T-type	Model No	Stock	D	H	d	INO	Insert	Screw	Wrench	Price
Standard type	EAX2040RB-O	●	40	40	16	6	AX□□1235□□	CS30A	T-8	
	EAX2050RB-O	●	50	40	22	7				
	EAX2063RB-O	●	63	40	22	8				
	EAX3040RB-O	●	40	40	16	4				
	EAX3050RB-O	●	50	40	22	5				
	EAX3063RB-O	●	63	40	22	6				
	EAX3080RA-O	●	80	50	25.4	4	AX□□1705□□	CS40	T-15	
	EAX3100RA-O	●	100	63	31.75	5				
	EAX3125RA-O	●	125	63	38.1	6				
	EAX2040RB	●	40	40	16	6				
	EAX2050RB	●	50	40	22	7				
	EAX2063RA	●	63	50	25.4	8				
	EAX2063RB	●	63	40	22	8				
	EAX3040RB	●	40	40	16	4				
	EAX3050RB	●	50	40	22	5				
	EAX3063RA	●	63	50	25.4	6				
	EAX3063RB	●	63	40	22	6				
	EAX3080RA	●	80	50	25.4	4				
EAX3100RA	●	100	63	31.75	5					
EAX3125RA	●	125	63	38.1	6					
Multi-blade	EAXF3080RA-O	●	80	50	25.4	7	AX□□1705□□	CS40	T-15	
	<b>NEW</b> EAXF3080RB-O	●	80	50	27	7				
	EAXF3100RA-O	●	100	63	31.75	8				
	EAXF3100RB-O	●	100	63	32	8				
	EAXF3125RA-O	●	100	63	38.1	9				
	EAXF3080RA	●	80	50	25.4	7				
	<b>NEW</b> EAXF3080RB	●	80	50	27	7				
	EAXF3100RA	●	100	63	31.75	8				
	<b>NEW</b> EAXF3100RB	●	100	63	32	8				
	<b>NEW</b> EAXF3125RB	●	125	63	40	9				

●-O : Oil hole  
● Only sell in Taiwan, China, Malaysia.

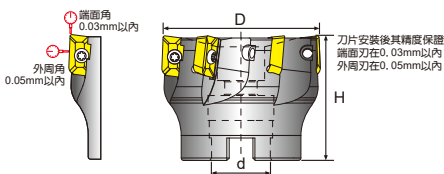
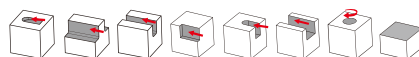
EAX High Speed Shoulder Face Milling Cutter

- Shoulder Face Milling
- Surface Milling
- Morsisting
- Multi Function Milling
- Profile Milling

**I**  
END MILL CUTTER

**EM90AP16** EM High Speed Shoulder Face Milling Cutter


Model No	Stock	D	d	L	L1	L2	INO	Insert	Screw	Wrench	Price
EM90AP16-D63-75	●	63	25.4	83	63	12	4R20T	AP□□ 1605□□	CS35	T-15	
EM90AP16-D80-80	●	80	31.75	80	52	28	6R24T		CS40		
EM90AP16-D80-105	●	80	31.75	105	75	30	6R36T				

**EAPMD** EAPMD High Speed Shoulder Face Milling Cutter


Model No	Stock	D	H	d	INO	Insert	Screw	Wrench	Price
<b>NEW</b> EAPMD16-D40B	●	40	40	16	4	AP□□1604□□	CS40	T-15	
<b>NEW</b> EAPMD16-D50B	●	50	40	22	5				
<b>NEW</b> EAPMD16-D63A	●	63	50	25.4	6				
<b>NEW</b> EAPMD16-D80A	●	80	50	25.4	7				
<b>NEW</b> EAPMD16-D100A	●	100	50	31.75	8				
<b>NEW</b> EAPMD16-D125A	●	125	63	38.1	9				
<b>NEW</b> EAPMD16-D63B	●	63	50	22	6				
<b>NEW</b> EAPMD16-D80B	●	80	50	27	7				
<b>NEW</b> EAPMD16-D100B	●	100	50	32	8				
<b>NEW</b> EAPMD16-D125B	●	125	63	40	9				

EAPMD High Speed Shoulder Face Milling Cutter

Shoulder Face Milling

Surface Milling

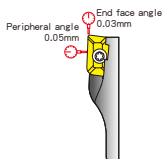
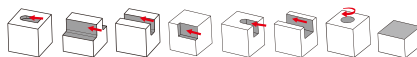
Morstising

Multi Function Milling

Profile Milling

**I**  
 END MILL CUTTER

# EX90 EM High Speed Shoulder Face Milling Cutter



After the blade is installed, its precision ensures that the end face is within 0.03mm and the outer peripheral edge is within 0.05mm.

Model No	Stock	D	H	d	INO	Insert	Screw	Wrench	Price
EX90AP16-D50B	●	50	40	22	5	AP□□1605□□	CS35	T-15	
EX90AP16-D63A	●	63	50	25.4	5				
EX90AP16-D80A	●	80	50	25.4	6				
EX90AP16-D1400A	●	100	50	31.75	7				
EX90AP16-D125A	●	125	50	38.1	8				
EX90AP16-D63B	●	63	50	22	5				
EX90AP16-D80B	●	80	50	27	6				
EX90AP16-D100B	●	100	50	32	7				
EX90AP10-D80A	●	80	50	25.4	10	AP□□1035□□	CS40	T-8	

EX90 High Speed Face Milling Cutter

Shoulder Face Milling

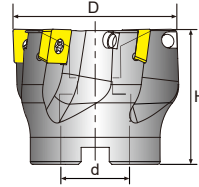
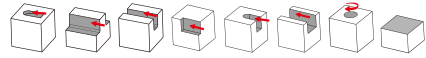
Surface Milling

Morstising







Multi Function Milling

Profile Milling

**I**  
END MILL CUTTER

**ESP400** ESP High Speed Shoulder Face Milling Cutter


High Speed Milling Cutter

Model No	Stock		D	d	H	INO	Insert	Screw	Wrench	Price			
	R	L											
ESP400-063A05RA			63	25.4	50	5							
ESP400-080A06RA			80	25.4	50	6							
ESP400-100B07RA			100	31.75	50	7							
EAP400-125B08RA			125	38.1	63	8							
ESP400-160B10RA			160	50.8	63	0							
ESP400-160B12RA	●		160	50.8	63	12							
ESP400-160B12RB	●		160	40	63	12				SP□□1204□□	CS45	T-15	
ESP400-050A04RB			50	22	40	4							
ESP400-063A05RB/L	●	●	63	22	50	5							
ESP400-080A06RB			80	27	50	6							
ESP400-100B07RB			100	32	50	7							
ESP400-125B08RB			125	40	63	8							
ESP400-160B10RB			160	40	63	10							

- Insert Detail : SP□□1204□□→Ref.Page-271
- Standard Stocks

Shoulder Face Milling

Surface Milling

Morstising

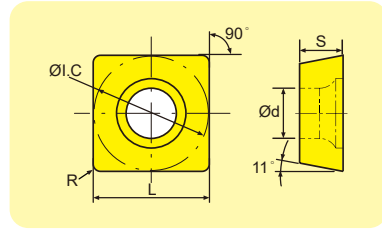
Multi Function Milling

Profile Milling

**I**  
 END MILL CUTTER



# SPMT SPMT INSERT 90°

Dimension	
L : 12.7	S : 4.76
IC : 12.7	Ød : 5.5



- Standard Stocks
- ◆ Grade Ref. Page-D
- ◆ Chipbreaker Ref. Page-F-H
- ◆ Cutting condition Ref. Page-I

Carbide Coated

Shape	Model No	R	P					K		
			ECP100	ECP200	ECP300	ECM100	ECM200	ECK100	ECK200	ECK300
				SPMT050204-GO	0.4				●	●
	SPMT060204-GO	0.4				●	●			
	SPMT120408	0.8		●	●	●				
	SPMT120408-JO	0.8				●	●			
	SPMT120420	2							●	
	SPMT140512-GO	1.2				●	●			

SPMT Inserts

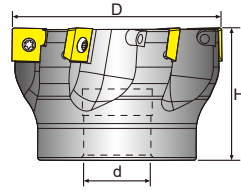
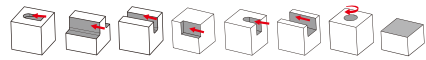
- Shoulder Face Milling
- Surface Milling
- Morsising
- Multi Function Milling
- Profile Milling

I

END MILL CUTTER

# EASX400

EASX High Speed Shoulder Face Milling Cutter  
 Right Hand Show



EASX High Speed Milling Cutter

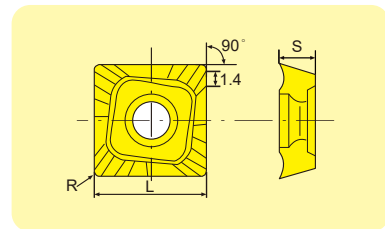
Model No	Stock	D	H	d	INO	Insert	Screw	Wrench	Price
EASX400-063A05RA	●	63	25.4	50	5	SO□□12T3□□	CS35	T-15	
EASX400-080B06RA	●	80	25.4	50	6				
EASX400-100B07RA	●	100	31.75	50	7				
EASX400-125B08RA	●	125	38.1	63	8				
EASX400-160C12RA	●	160	50.8	63	12				
EASX400-050A04RB	●	50	22	40	4				
EASX400-063A05RB	●	63	22	50	5				
EASX400-080B06RB	●	80	27	50	6				
EASX400-100B07RB	●	100	32	50	7				
EASX400-125B08RB	●	125	40	63	8				
EASX400-160C12RB	●	160	40	63	12				

● Insert Detail : SO□□12T3□□ → Ref. Page-272

## SO


SO INSERT 

Dimension	
L : 12.7	S : 3.97



- ◆ Grade Ref. Page-D
- ◆ Chipbreaker Ref. Page-F-H
- ◆ Cutting condition Ref. Page-I

Carbide Coated

Shape	Model No	R	Carbide Coated				
			P	M			
			NX4545	VP30RT	VP15TF	MC5020	F703
	SOMT12T308PEER-JH	0.8	●	●	●	●	●
	SOMT12T308PEER-JM	0.8	●	●	●	●	●

Shoulder Face Milling

Surface Milling

Morstising

Multi Function Milling

Profile Milling

**I**  
END MILL CUTTER

## Recommended Cutting Condition

Workpiece			Diameter	
			50mm	50-160mm
<b>P</b> Steel	Mild Steel (SS400)	<b>V</b>	150- <b>200</b> -250	150- <b>200</b> -250
		<b>f</b>	0.01-0.20	0.01-0.30
<b>M</b> Stainless steel	Stainless Steel (SUS304)	<b>V</b>	160- <b>200</b> -250	160- <b>200</b> -250
		<b>f</b>	0.15-0.20	0.15-0.30
<b>K</b> Cast	Cast Iron (FC250)	<b>V</b>	100- <b>200</b> -250	100- <b>200</b> -250
		<b>f</b>	0.10-0.20	0.10-0.30
<b>N</b> Alloy	(ADC12)	<b>V</b>	300- <b>500</b> -1000	300- <b>500</b> -1000
		<b>f</b>	0.15-0.20	0.15-0.20

● (V=m/min) (Min.—Optimum—Max.)

● (N)=[1000 x (V)]÷[3.14 x (D)]

● (F)=[(f) x (Z) x (N)]



G : General H : Heavy AK/L : Aluminum

Shape	Model No	bs	L	I.C	S	Ød	Carbide Coated							
							P			K				
							EGP100	EGP200	EGP300	ECM100	ECM200	ECK100	ECK200	ECK300
	SEET13T3-UO	1.3	13.4	13.4	3.97	4.1				●			●	
	SEET13T3-HO	1.3	13.4	13.4	3.97	4.1				●				

SEET13T3-UO SEET13T3-HO

Shoulder Face Milling

Surface Milling

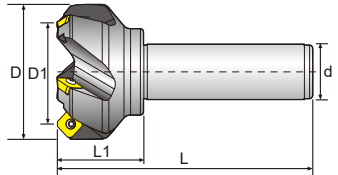
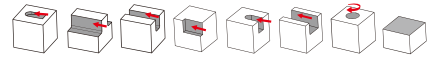
Morsisting

Multi Function Milling

Profile Milling

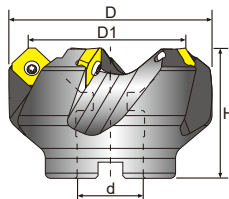
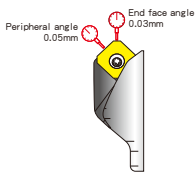
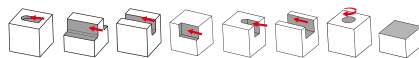
**I**  
END MILL CUTTER

### SE50 SE High Speed Shoulder Face Milling Cutter



Model No	Stock	D	D1	d	L	L1	INO	Insert	Screw	Wrench	Price
SE50-C32-4	●	62	50	32	120	45	4	SE□□1204□□	CS45	T-15	
SE50-C32-4-13T3	●	62	50	32	120	45	4	SE□□13T3□□			

●Insert Detail : SE□□1204□□→Ref.Page-273

**S45SE00** SE High Speed Milling Cutter


After the blade is installed, its precision ensures that the end face is within 0.03mm and the outer peripheral edge is within 0.05mm.

High Speed Milling

Shoulder Face Milling

Surface Milling

Morstising

Multi Function Milling

Profile Milling

**I**

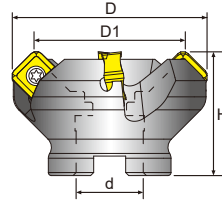
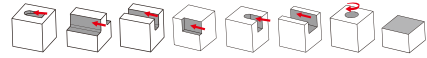
END MILL CUTTER

Model No	Stock		D	D1	d	H	INO	Insert	Screw	Wrench	Price
	R	L									
50A04R-S45SE12B	●		62	50	22	40	4	SE□□1204□□	CS45		
63A05R-S45SE12A	●		75	63	25.4	50	5				
80B06R/L-S45SE12A	●	●	92	80	25.4	50	6				
100B06R/L-S45SE12A	●	●	112	100	31.75	50	6				
125B08R/L-S45SE12A	●	●	137	125	38.1	63	8				
160B10R/L-S45SE12A	●		172	160	50.8	63	10				
63A05R-S45SE12B	●		75	63	22	40	5				
80B06R/L-S45SE12B	●	●	92	80	27	50	6				
100B06R/L-S45SE12B	●	●	112	100	32	50	6				
125B08R/L-S45SE12B	●		137	125	40	63	8				
160B10R/L-S45SE12B	●		172	160	40	63	10	SE□□13T3□□	CS35	T-15	
50A04R-S45SE13B	●		64	50	22	40	4				
63A05R-S45SE13A	●		76	63	25.4	50	5				
80B06R/L-S45SE13A	●	●	93	80	25.4	50	6				
100B06R/L-S45SE13A	●	●	113	100	31.75	50	6				
100B07R/L-S45SE13A	●	●	113	100	31.75	50	7				
125B08R/L-S45SE13A	●	●	138	125	38.1	63	8				
160B10R/L-S45SE13A	●		173	160	50.8	63	10				
50A04R-S45SE13B	●		63	50	22	40	4				
63A05R-S45SE13B	●		76	63	22	40	5				
63A06R-S45SE13B	●		76	63	22	40	6				
80B06R/L-S45SE13B	●	●	93	80	27	50	6				
100B06R/L-S45SE13B	●	●	113	100	32	50	6				
100B07R/L-S45SE13B	●	●	113	100	32	50	7				
125B08R/L-S45SE13B	●	●	138	125	40	63	8				
160B10R/L-S45SE13B	●		173	160	40	63	10				

●Insert Detail : SE□□13T3□□→Ref. Page-273



## EC EC High Speed Milling Cutter



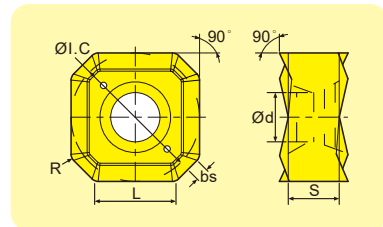
Model No	Stock		D	D1	d	H	INO	Insert	Screw	Wrench	Price
	R	L									
50A04R/L-S45EC12B	●		64	50	22	40	4	EC1205	CH40	T-15	
63A05R/L-S45EC12A	●		74	63	25.4	50	5				
80B06R/L-S45EC12A	●		94	80	25.4	50	6				
100B08R/L-S45EC12A	●		114	100	31.75	50	8				
125B08R/L-S45EC12A	●		139	125	38.1	63	8				
63A05R/L-S45EC12B	●		74	63	22	50	5				
80B06R/L-S45EC12B	●		94	80	27	50	6				
100B08R/L-S45EC12B	●		114	100	32	50	8				
125B08R/L-S45EC12B	●		139	125	40	63	8				

●Insert Detail : EC□□1205□□→Ref.Page-275

## EC EC INSERT

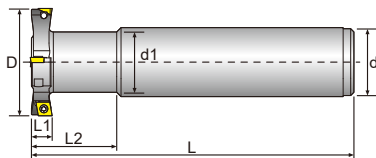
Dimension	
L : 7.6	S : 4.76
IC : 12	Ød : 4.6

- Standard Stocks
- ◆ Grade Ref. Page-D
- ◆ Chipbreaker Ref. Page-F-H
- ◆ Cutting condition Ref. Page-I



Shape	Model No	R	bs	Carbide Coated	
				P	BEJ750
	EC1205-IO	0.8	1.05		●

## TS00 T Slot End Mill

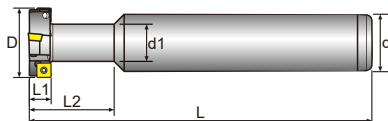


Model No	Stock	D	d	d1	L	L1	L2	INO	Insert	Screw	Wrench	Price
TS20-C16-10	●	20	16	12	120	10	29	2	CC□□0602□□	CS25	T-8	
TS25-C20-10	●	25	20	13	120	10	34	4				
TS30-C20-10	●	30	20	18	150	10	29	4				
TS35-C20-10	●	35	20	18	150	10	40	4				
TS40-C25-10	●	40	25	22	150	10	40	4				
TS40-C32-10	●	40	32	22	150	10	40	4				
TS50-C32-10	●	50	32	28	150	10	40	4				

● Insert Detail : CC□□0605□□ → Ref. Page-I

**T S L O T E N D M I L L**

## TSP T Slot End Mill



Model No	Stock	D	d	d1	L	L1	L2	INO	Insert	Screw	Wrench	Price
TSP0520-C16-08		20	16	12	120	8	30	2	SP□□0502□□	CS20	T-6	
TSP0525-C20-08	●	25	20	13	120	8	30	4				
TSP0530-C20-08	●	30	20	18	150	8	30	4				
TSP0535-C20-08		35	20	18	150	8	30	4				
TSP0540-C25-08		40	25	22	150	8	40	4				
TSP0550-C32-08		50	32	28	150	8	40	4				

 Shoulder  
Face  
Milling

 Surface  
Milling

Morstising

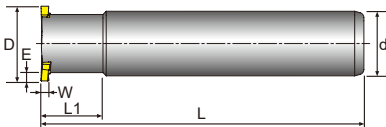
 Multi  
Function  
Milling

 Profile  
Milling

**I**  
END MILL  
CUTTER



**New Arrival**



Model No	Stock	D	d	E	L	L1	W	INO	Insert	Screw	Wrench	Price
<b>NEW</b> TEL1625-C25	●	25	25	2~3	125	24	1~3	1	EC16R 100~300	CH40	T-15	
<b>NEW</b> TEL1630-C25-2T	●	30	25	2~3	125	24	1~3	2				
<b>NEW</b> TEL1638-C32-3T	●	38	32	2~3	125	24	1~3	3				

# T-Groove Milling Cutter

Inner hole groove milling cutter  
Processing slot width is large



T-SLOT END MILL

Shoulder  
Face  
Milling

Surface  
Milling

Morstising

Multi  
Function  
Milling

Profile  
Milling

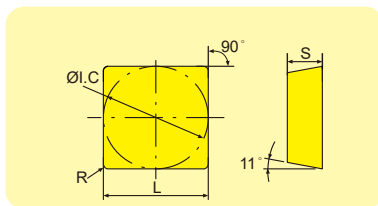
**I**  
END MILL  
CUTTER



# SP


 SP INSERT 90°

Dimension	
L : 12.7	S : 3.18
IC : 12.7	



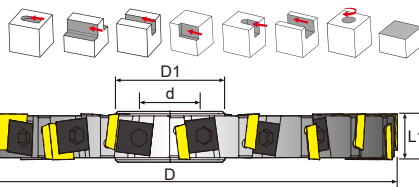
- Standard Stocks
- ◆ Grade Ref. Page-D
- ◆ Chipbreaker Ref. Page-F-H
- ◆ Cutting condition Ref. Page-I

Carbide Coated

Shape	Model No	R	P			K		
			ECP100	ECP200	ECP300	ECK100	ECK200	ECK300
	SPUN120308	0.8	●	●	●			

T S B E E M i / S t e m i n g C u t t e r

# SC

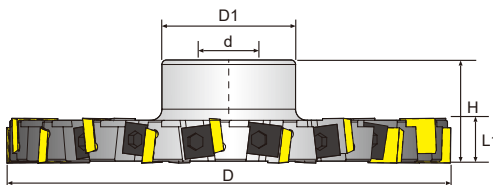
 Side Milling Cutter


Model No	Stock	D	D1	d	L1	INO	Insert	Clamp	Clamp	Screw	Wrench	Price
SC100-16-25.4	●	100	42	25.4	16	10	SP□□1203□□	SCR	SCL	SC8	LW040	
SC125-16-25.4	●	125	42	25.4	16	14						
SC160-16-25.4	●	160	42	25.4	16	16						
SC200-20-31.75	●	200	48	31.75	20	20						SP□□1504□□

● Insert Detail : SP□□1203□□ → Ref. Page-278

# SCT

 Side Milling Cutter

New Specification Arrival


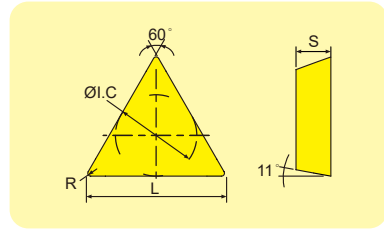
Model No	Stock	D	D1	d	L1	H	INO	Insert	Clamp	Clamp	Screw	Wrench	Price
<span style="color: red; font-weight: bold;">NEW</span> SCT100-16-25.4	●	100	42	25.4	16	45	10	SP□□1203□□	SCR	SCL	SC8	LW040	
<span style="color: red; font-weight: bold;">NEW</span> SCT125-16-25.4	●	125	42	25.4	16	45	14						
SCT160-16-31.75	●	160	70	31.75	16	45	16						
SCT200-20-31.75	●	200	70	31.75	20	45	20						SP□□1504□□

● Insert Detail : SP□□1204□□ → Ref. Page-278



# TPUN TPUN INSERT

Dimension	
L : 16.5	S : 4.76
IC : 9.525	

- Standard Stocks
- ◆ Grade Ref. Page-D
- ◆ Chipbreaker Ref. Page-F-H
- ◆ Cutting condition Ref. Page-I



Carbide Coated

Shape	Model No	R	P				K			
			ECP100	ECP200	ECP300	ECM100	ECM200	ECK100	ECK200	ECK300
	TPUN160308	0.8					●			
	TPUN220408	0.8				●				
	TPUN220412	1.2					●			

CHAIN Endmill Cutters

Shoulder Face Milling

Surface Milling

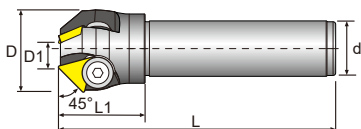
Morstising

Multi Function Milling

Profile Milling

**I**  
END MILL CUTTER

## TM45° TM Countersink

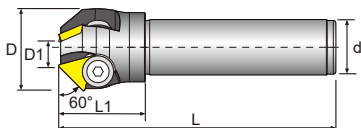


Model No	Stock	D	D1	d	L	L1	INO	Insert	Screw	Wrench	Price
TM5-20-45	●	20	7	20	120	40	1	TP□□1603	TP-W1/4	LW040	
TM10-31-45	●	31	14	20	120	40	2				
TM20-50-45	●	50	23	32	160	50	3	TP□□2204	TP-W5/16	LW050	
TM35-63-45	●	63	36	32	160	50	3				

●Insert Detail : TP□□1603□□、TP□□2204□□→Ref.Page-279

TM Countersink

## TM60° TM Countersink



Model No	Stock	D	D1	d	L	L1	INO	Insert	Screw	Wrench	Price
TM5-20-60	●	20	8	20	120	40	1	TP□□1603	TP-W1/4	LW040	
TM10-31-60	●	31	19	20	120	40	2				
TM20-50-60	●	50	32	32	160	50	3	TP□□2204	TP-W5/16	LW050	
TM35-63-60	●	63	45	32	160	50	3				

●Insert Detail : TP□□1603□□、TP□□2204□□→Ref.Page-279

Shoulder  
Face  
Milling

Surface  
Milling

Morstising

Multi  
Function  
Milling

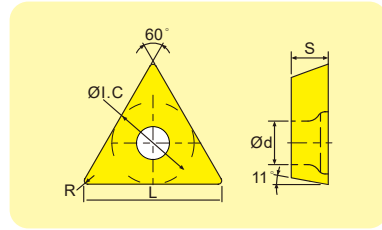
Profile  
Milling


**I**  
END MILL  
CUTTER

# TC TC INSERT

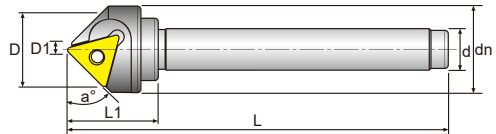
Dimension (mm)	
L : 16.5	S : 3.97
IC : 9.525	




- Standard Stocks
- ◆ Grade Ref. Page-D
- ◆ Chipbreaker Ref. Page-F-H
- ◆ Cutting condition Ref. Page-I



Shape	Model No	R	d	Carbide Coated										
				P				K						
				ECP100	ECP200	ECP300	ECM100	ECM200	ECK100	ECK200	ECK300			
GO Medium 	TCMT16T304-GO	0.4	4.4		●	●	●	●						
	TCMT16T308-GO	0.8	4.34		●	●	●	●			●			

# TC45° TC Countersink



Model No	Stock	D	D1	d	dn	L	L1	a°	INO	Insert	Screw	Wrench	Price
													
TC10-30	●	30	6	10	30	74	29	30	1	TC□□16T3	CH40	T-15	
TC10-45	●	25	5	10	26	67	22	45	1				
TC12	●	22	5	12	25	110	26	45	1				
TC40	●	38	19	12	38.5	100	40	45	1				

● Insert Detail : TC□□16T3□□→Ref. Page-281

TC45°

Shoulder Face Milling

Surface Milling

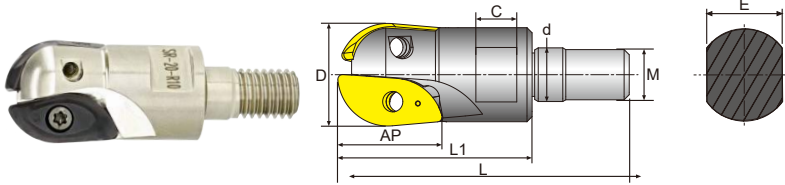
Morsisting







Multi Function Milling

Profile Milling

**I**  
END MILL CUTTER

**SR** SR Exchangeable Ball Nose End Mill

 **New Arrival**


Model No	Stock	D	d	AP	L1	L	M	C	E	INO	Insert	Screw	Wrench	Price
<b>NEW</b> SR-16-R8	●	16	8.5	16	31	49	8	18	10	2	 XPHT16R0803	 CS25	 T-8	
<b>NEW</b> SR-20R-R10	●	20	10.5	20	37	57	10	18	15	2	 XPHT20R10T3	 CS35W	 T-10	

● Arbor Refer Page-285

## SR Exchangeable Ball Nose End Mill



SR-16-R8

SR-20R-R10

- Exchangeable ball nose type end mill.
- change tool quickly to saves tool replacement time.
- With tungsten steel shank, inhibit processing vibration.
- Improve processing efficiency and good surface finish.



SR Exchangeable Ball Nose End Mill

 Shoulder  
Face  
Milling

 Surface  
Milling

Morstising

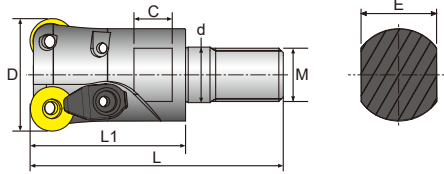
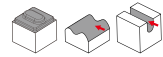
 Multi  
Function  
Milling

 Profile  
Milling

**I**  
END MILL  
CUTTER



## EDRDH00 RD Exchangeable Head End Mill



Model No	Stock	D	d	L	L1	M	C	E	INO	Insert	Screw	Screw	Wrench	Price
EDRDH08-D16	●	16	8.5	47	30	8	8	10	2	RD□□0802□□	CS25	TP-W3/16	T-10	
EDRDH08-D17	●	17	8.5	47	30	8	8	10	2					
EDRDH08-D20	●	20	10.5	49	30	10	8	15	2					
EDRDH08-D21	●	21	10.5	49	30	10	8	15	2					
EDRDH10-D25	●	25	12.5	57	35	12	8	17	2	RD□□10T3□□	CH40	T-15		
EDRDH10-D26	●	26	12.5	57	35	12	8	17	2					
EDRDH10-D30	●	30	17	63	40	16	11	26	2					
EDRDH10-D32	●	32	17	63	40	16	11	26	3					
EDRDH10-D35	●	35	17	63	40	16	11	26	3					

●Insert Detail : RD□□0802□□、RD□□10T3□□→Ref.Page-284

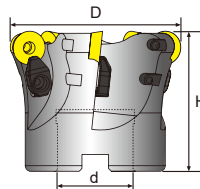
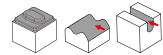
RD Exchangeable Head End Mill

Shoulder Face Milling

Surface Milling

Morsisting

## ERDH ERDH High Speed Shoulder Face Milling Cutter Right Hand Show



Model No	Stock		D	d	H	INO	Insert	Screw	Screw	Screw	Wrench	Price
	R	L										
ERDHA5R50	●		50	22	50	4	RD□□10T3□□	CS40	TP-W3/16	CS35115	T-15	
ERDHA5R63A	●		63	25.4	50	5						

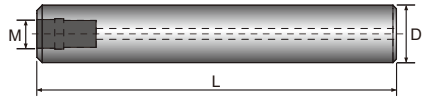
●Insert Detail : RD□□10T3□□→Ref.Page-284

Profile Milling

I  
END MILL CUTTER



# EC00M00000 Carbide Arbors



Model No	Stock	D	L	M	Price
EC08M4100	●	8	100	4	
EC10M5100	●	10	100	5	
EC10M5150	●	10	150	5	
EC12M6100	●	12	100	6	
EC12M6150	●	12	150	6	
EC12M6200	●	12	200	6	
EC16M8100	●	16	100	8	
EC16M8150	●	16	150	8	
EC16M8200	●	16	200	8	
EC16M8250	●	16	250	8	
EC20M10100	●	20	100	10	
EC20M10150	●	20	150	10	
EC20M10200	●	20	200	10	
EC20M10250	●	20	250	10	
EC20M10300	●	20	300	10	
EC25M12100	●	25	100	12	
EC25M12150	●	25	150	12	
EC25M2200	●	25	200	12	
EC25M12250	●	25	250	12	
EC25M12300	●	25	300	12	
EC32M16150	●	32	150	16	
EC32M16200	●	32	200	16	
EC32M16250	●	32	250	16	
EC32M16300	●	32	300	16	
EC32M16350	●	32	350	16	
EC32M16400	●	32	400	16	

These Exchangeable head end mills can be researched as below

## EAPMC ▶ P258



## ED90AP00 ▶ P264



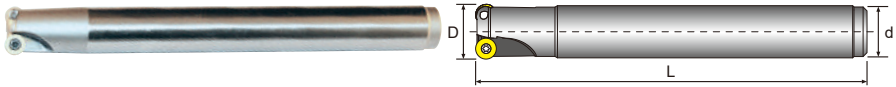
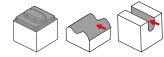
## SR ▶ P282



## EDRDH00 ▶ P283



- EAPMC End Mill Refer Page-258
- ED Exchangeable Head End Mill Refer Page-264
- SR Exchangeable Head End Mill Refer Page-282
- RD Exchangeable Head End Mill Refer Page-283

**ERDHA0R0** RD Round Insert End Mill


Model No	Stock	D	d	L	INO	Insert	Screw	Clamp	Screw	Wrench	Price
ERDHA2.5R10-100	●	10	10	100	2	RD□□0501□□	CS18			T-6	
ERDHA2.5R10-120	●	10	10	120	2						
ERDHA2.5R11-100	●	11	10	100	2						
ERDHA2.5R12-100	●	12	12	100	2						
ERDHA2.5R12-130	●	12	12	130	2						
ERDHA2.5R13-100	●	13	12	100	2	RD□□0702□□	CS25	-	-	T-8	
ERDHA3.5R16-150	●	16	16	150	2						
ERDHA3.5R17-150	●	17	16	150	2						
ERDHA3.5R20-150	●	20	20	150	3						
ERDHA3.5R20-200	●	20	20	200	3						
ERDHA3.5R21-150	●	21	20	150	3	RD□□0802□□	CCH3.5	CS35115		T-8 T-15	
ERDHA3.5R21-200	●	21	20	200	3						
ERDHA4R16-150	●	16	16	150	2						
ERDHA4R17-150	●	17	16	150	2						
ERDHA4R20-150	●	20	20	150	2						
ERDHA4R21-150	●	21	20	150	2	RD□□10T3□□	CH40			T-15	
ERDHA4R21-200	●	21	20	200	2						
ERDHA5R25-150	●	25	25	150	2						
ERDHA5R25-200	●	25	25	200	2						
ERDHA5R25-250	●	25	25	250	2						
ERDHA5R26-150	●	26	25	150	2	RD□□10T3□□	CH40			T-15	
ERDHA5R26-200	●	26	25	200	2						
ERDHA5R26-250	●	26	25	250	2						
ERDHA5R30-150	●	30	25	150	2						
ERDHA5R30-200	●	30	25	200	2						
ERDHA5R32-150	●	32	32	150	3						
ERDHA5R32-200	●	32	32	200	3						
ERDHA5R35-150	●	35	32	150	3						
ERDHA5R35-200	●	35	32	200	3						
ERDHA5R35-250	●	35	32	250	3						
ERDHA5R35-300	●	35	32	300	3						

●Insert Detail : RD□□0802□□、RD□□10T3□□→Ref.Page-284

RD Round Insert End Mill

 Shoulder  
Face  
Milling

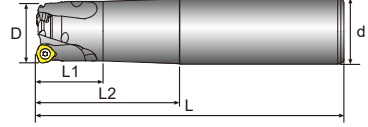
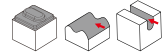
 Surface  
Milling

Morstising

 Multi  
Function  
Milling

 Profile  
Milling

**I**  
END MILL  
CUTTER



Model No	Stock	D	d	L1	L2	L	INO	Insert	Screw	Clamp	Screw	Wrench	Price
EZC06016ES-110	●	16	16	30	80	110	2	ZCMT06	CS25			T-8	
EZC06016EM-150	●	16	16	70	80	150	2						
EZC06017EM-150	●	17	16	20	130	150	2						
EZC06018EM-150	●	18	16	20	130	150	2						
EZC06020ES-130	●	20	20	50	80	130	3						
EZC06020EM-180	●	20	20	100	80	180	3						
EZC06022EM-180	●	22	20	30	150	180	3						
EZC06025ES-140	●	25	25	60	80	140	3						
EZC06025EM-250	●	25	25	120	130	250	3						
EZC08020ES-130	●	20	20	50	80	130	2	ZCMT08	CS30			T-10	
EZC08020EM-180	●	20	20	100	80	180	2						
EZC08022EM-180	●	22	20	30	150	180	2						
EZC08025ES-140	●	25	25	60	80	140	2						
EZC08025EM-250	●	25	25	120	130	250	2						
EZC08028EM-250	●	28	25	40	210	250	2						
EZC08032ES-150	●	32	32	70	80	150	3						
EZC08032EM-250	●	32	32	120	130	250	3						
EZC08035EM-250	●	35	32	50	200	250	3						
EZC12032ES-150	●	32	32	70	80	150	2	ZCMT12	CS40	CCH3.5	CS35115		
EZC12032EM-250	●	32	32	120	130	250	2						
EZC12035EM-250	●	35	32	50	200	250	2						
EZC12040-ES-150	●	40	32	50	100	150	3						
EZC12040EM-250	●	40	32	50	200	250	3						
EZC12050EM-250	●	50	42	50	200	250	4						
EZC14040ES-150	●	40	32	50	100	150	2						
EZC14040EM-250	●	40	32	50	200	250	2						
EZC14050ES-150	●	50	42	50	100	150	3	ZCMT14	CS45	CCH4.5	CS45		
EZC14050EM-250	●	50	42	50	200	250	3						
EZC14063ES-150	●	63	42	50	100	150	4						
EZC14063EM-250	●	63	42	50	200	250	4						

Shoulder Face Milling

Surface Milling

Morsisting

Profile Milling

I END MILL CUTTER



**U Drill**

**RAPID DRILL  
SERIES**

**High torsion resistance  
strong drill body**



SPGX series



EDX series



WCMX series

