



CARBIDE

Being the best through innovation



X-POWER END MILLS

- Medium Steels to High Hardened Steels up to HRc70

CARBIDE

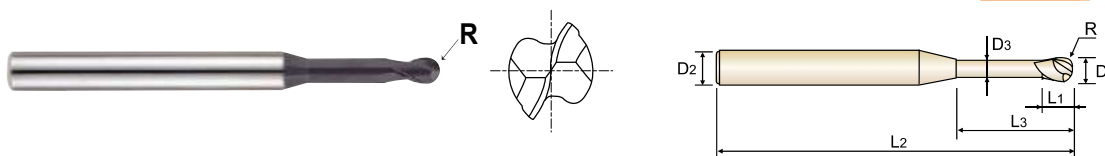
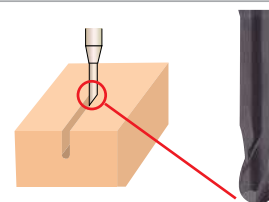
HSS


**X-POWER
END MILLS**
EM967 SERIES

PLAIN SHANK

CARBIDE, 2 FLUTE BALL NOSE for RIB PROCESSING

- ▶ For 3-D milling, deep slotting and pocketing.
- ▶ For depths of 6 to 10X cutting diameter.
- ▶ Machine carbon steel, alloy steel, tool steel, die and mold steels.
- ▶ Suitable for high speed cutting and high precision machining.
- ▶ Designed with reinforced shank for higher stability and rigidity.
- ▶ Long neck design for deep machining near walls.


MG
2
30°
R
±.0005

PLAIN
P.931
◆ U.S.A Stock

Unit : Inch

EDP No.	Radius of Ball Nose	Mill Diameter	Shank Diameter	Length of Cut	Length Below Shank	Overall Length	Neck Diameter
	R (±.0005)	D1	D2	L1	L3	L2	D3
93563	R1/64	1/32	1/8	3/64	7/32	2	.029
93564	R1/64	1/32	1/8	3/64	5/16	2	.029
93565	R.0234	3/64	1/8	1/16	7/32	2	.045
93566	R.0234	3/64	1/8	1/16	9/32	2	.045
93567	R.0234	3/64	1/8	1/16	1/2	2	.045
93568	R1/32	1/16	1/8	3/32	5/16	2	.060
93569	R1/32	1/16	1/8	3/32	1/2	2	.060
93570	R1/32	1/16	1/8	3/32	5/8	2	.060
93571	R.0391	5/64	1/8	1/8	5/16	2	.076
93572	R.0391	5/64	1/8	1/8	5/8	2	.076
93573	R.0391	5/64	1/8	1/8	3/4	2	.076
93574	R3/64	3/32	1/8	9/64	5/8	2	.090
93575	R3/64	3/32	1/8	9/64	3/4	2	.090
93576	R1/16	1/8	1/4	3/16	5/8	2-1/4	.120
93577	R1/16	1/8	1/4	3/16	3/4	2-1/4	.120

Mill Dia. Tolerance(inch)	Shank Dia. Tolerance
0~-.0006	0~-.0003

◎ : Excellent ○ : Good

P					H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HRC20	HRC20~30	HRC30~40	HRC40~45	HRC45~55	HRC55~70									
○	◎	◎	◎	○			○							

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CBN
END MILLSi-Xmill
END MILLSi-SMART
MODULAR
TYPE END MILLSX5070
END MILLS4G MILL
END MILLSX-POWER
END MILLSJET-POWER
END MILLSTitaNox
-POWER
END MILLSV7 PLUS A
END MILLSV7 MILL INOX
END MILLSALU-POWER
HPC
END MILLSALU-POWER
END MILLSD-POWER
GRAPHITE
END MILLSD-POWER
CFRP
END MILLSROUTERS
CFRPSTANDARD
CARBIDE
END MILLSONLY ONE
COATED PM60
END MILLSSINE -POWER
END MILLSTANK-POWER
END MILLSSTANDARD
COBALT & HSS
END MILLSTECHNICAL
DATA

CARBIDE, 2 FLUTE BALL NOSE for RIB PROCESSING

 CBN
END MILLS

 i-Xmill
END MILLS

 i-SMART
MODULAR
TYPE END MILLS

 X5070
END MILLS

 4G MILL
END MILLS

**X-POWER
END MILLS**

 JET-POWER
END MILLS

 TitaNox
-POWER
END MILLS

 V7 PLUS A
END MILLS

 V7 MILL INOX
END MILLS

 ALU-POWER
HPC
END MILLS

 ALU-POWER
END MILLS

 D-POWER
GRAPHITE
END MILLS

 D-POWER
CFRP
END MILLS

 ROUTERS
CFRP

 STANDARD
CARBIDE
END MILLS

 ONLY ONE
COATED PM60
END MILLS

 SINE -POWER
END MILLS

 TANK-POWER
END MILLS

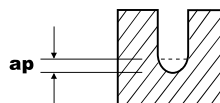
 STANDARD
COBALT & HSS
END MILLS

 TECHNICAL
DATA

EM967, EM886 SERIES

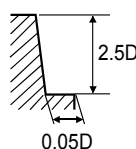
MATERIAL	P								
	NON-ALLOYED STEELS ALLOY STEELS CAST IRON			ALLOY STEELS HEAT RESISTANT STEELS			HARDENED STEELS		
HARDNESS	~ HRC30			HRC30 ~ HRC45			HRC45 ~ HRC55		
STRENGTH	~ 1000N/mm ²			1000 ~ 1500N/mm ²			1500 ~ 2000N/mm ²		
DIAMETER	RPM	FEED	ap	RPM	FEED	ap	RPM	FEED	ap
R1/64 × 1/32	27000~35000	7.5~16.5	.0006~.0014	19500~24500	2.4~9.5	.0006~.0014	12500~14800	1.4~3.7	.0003~.0006
R.0234 × 3/64	18500~23500	7.5~23.6	.0022~.0039	13000~16500	3.7~11.8	.0022~.0039	8300~10500	2.0~3.9	.0004~.0009
R1/32 × 1/16	14000~18000	7.5~23.6	.0030~.0057	10200~12800	3.7~11.8	.0030~.0057	6400~8000	2.0~3.9	.0006~.0012
R.0391 × 5/64	12000~14500	7.5~23.6	.0035~.0071	8300~10500	3.7~11.8	.0035~.0071	5300~6600	2.0~3.9	.0007~.0014
R3/64 × 3/32	9500~12000	7.5~23.6	.0044~.0093	6700~8500	3.7~11.8	.0044~.0093	4300~5300	2.0~3.9	.0009~.0018
R1/16 × 1/8	8000~10000	7.5~23.6	.0053~.0106	5500~7000	3.7~11.8	.0053~.0106	3500~4400	2.0~3.9	.0011~.0022

(Depth of Cut per one pass)


 RPM = rev./min.
FEED = inch/min.

CARBIDE, 2 FLUTE TAPER - SIDE CUTTING
EM837 SERIES

MATERIAL	P			
	NON-ALLOYED STEELS ALLOY STEELS		ALLOY STEELS HEAT RESISTANT STEELS	
HARDNESS	~ HRC30		HRC30 ~ HRC45	
STRENGTH	~ 1000N/mm ²		1000 ~ 1500N/mm ²	
DIAMETER	RPM	FEED	RPM	FEED
2.0	8400	6.7	6300	4.9
3.0	4410	4.7	3570	3.9
4.0	3570	5.5	2840	4.5
5.0	3050	7.1	2410	5.7
6.0	2630	8.3	2100	6.7
8.0	2000	9.8	1580	7.1


 RPM = rev./min.
FEED = inch/min.