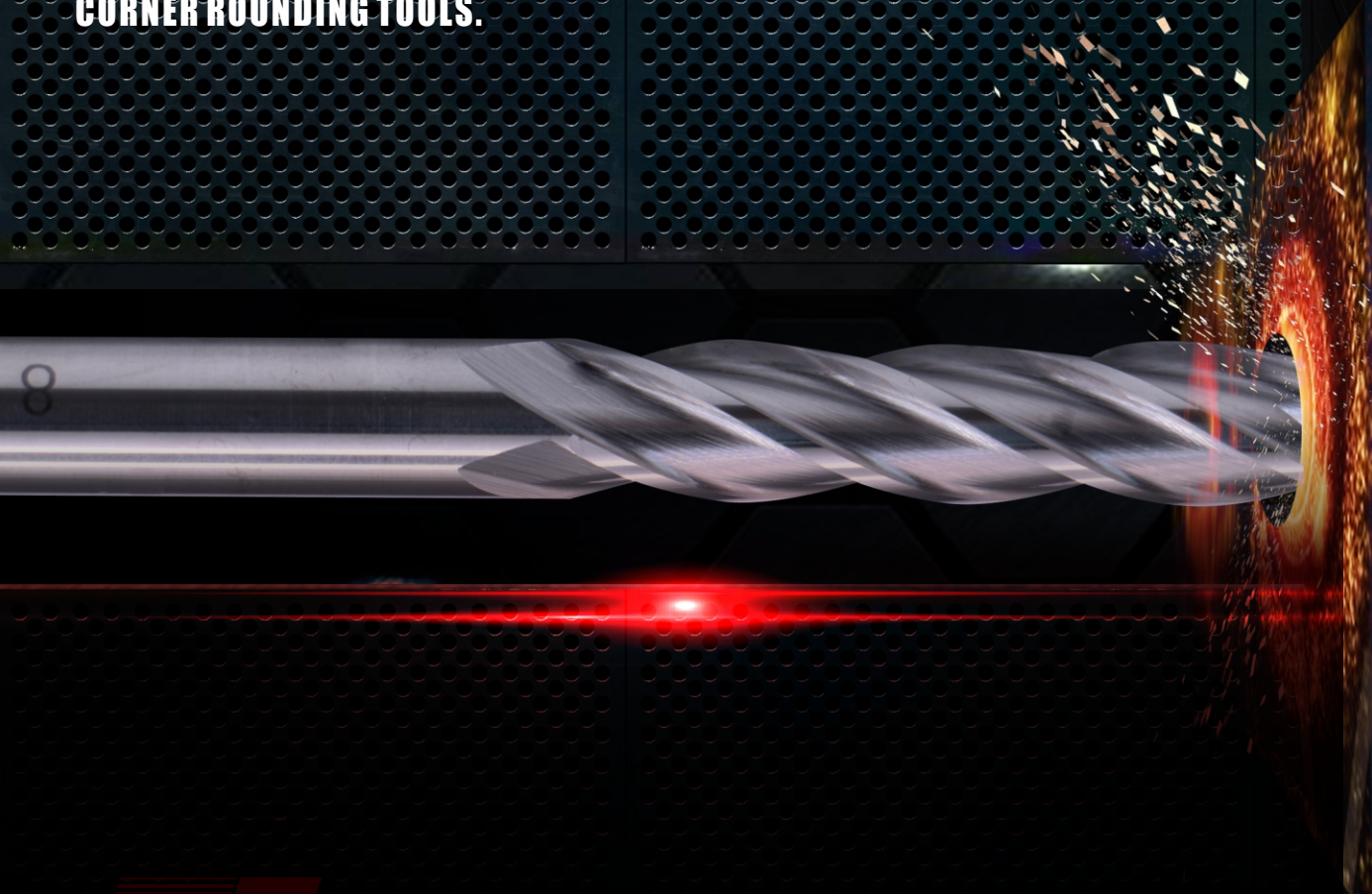


EMG SERIES

HSS END MILLS

Available are various endmill configurations including
**FINISHERS, ROUGHERS, BALL NOSE, REAMER
DOVETAIL, CHAMFERING, T-SLOT,
COUNTERBORERS AND
CORNER ROUNDING TOOLS.**



UNT PRECISION CUTTING TOOLS CO., LTD



HSS DRILL TOOLS



UNT PRECISION CUTTING TOOLS CO., LTD

TEL: +86-769-8210 0281 <http://www.unt-tools.com> sales@unt-tools.com

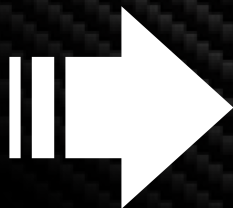


EMG SERIES

HSS end mills 2/3/4/6 flute, Drill bit, Taper, Roughers, Reamer etc

FOR ALUMINUM, ALUMINUM DIE CAST, NON-FERROUS ALLOYS AND PLASTICS

- ▶Surface treatment : Steam Tempered (Black Oxide Finish)
- ▶Applications : Excellent tool performance in steels, cast iron, alloy steels and malleable cast iron.
- ▶Special HSS improves toughness, wear resistance as well as extends dramatically the tool life.
- ▶All applications regardless of machine condition: Good or Poor.



Coating	Un-coated/TiCN/TiAlN
Helix Angle	35/36/37
Material	M2/M42 HSS
HRC	HRC 25/32
Shank	Cylindrical
Mill Dia Tolerance	0-0.030
Shank Dia Tolerance	H6

COATING					
ALTIN	TIAIN	TICN	TISICN	DIAMONO	NACO-B

NUMBER OF FLUTES			

SHANK TOLERANCE	

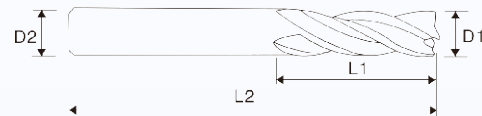
BALL RADIUS TOLERANCE		

MACHINING DIRECTOR	SIDE	PROFILE	SIDE, PROFILE, SLOT



HSS Co8, 4 Flute Roughing End Mills

- Mill Cutter, usually used to be assembled on milling machine;
- Suitable for CNC data processing center, carved, high-speed machines;
- Can milling of copper, aluminum, tool steel, cast iron, etc.
- High toughness, abrasion resistance, high-speed cutting for the high E9;
- Can processing directly or fine processing to the heat treatment mold;



Unit: Metric

EDP #	Mill Diameter	Shank Dia	Flute length	O.A.L	Flutes
	D1	D2	L1	L2	
EMG02010	1	6	2.5	55	4
EMG02020	2	6	6	55	4
EMG02030	3	6	10	55	4
EMG02040	4	6	12	55	4
EMG02050	5	6	15	60	4
EMG02080	8	8	20	70	4
EMG02100	10	10	25	80	4
EMG02120	12	12	30	90	4
EMG02140	14	12	35	95	4
EMG02160	16	16	40	105	4
EMG02200	20	20	45	115	4
EMG02250	25	20	50	120	4
EMG02320	32	32	60	145	4

Unit: UK

EDP #	Mill Diameter	Shank Dia	Flute length	O.A.L	Flutes
	D1	D2	L1	L2	
EMG031601	1/16"	1/4"	3/16"	2"	4
EMG033203	3/32"	1/4"	9/32"	2-7/64"	4
EMG030801	1/8"	1/4"	3/8"	2-3/16"	4
EMG033205	5/32"	1/4"	7/16"	2-1/4"	4
EMG031603	3/16"	1/4"	1/2"	2-1/4"	4
EMG030401	1/4"	1/4"	5/8"	2-7/16"	4
EMG031605	5/16"	3/8"	3/4"	2-1/2"	4
EMG030803	3/8"	3/8"	3/4"	2-1/2"	4
EMG031607	7/16"	1/2"	1-1/4"	3-1/4"	4
EMG030201	1/2"	1/2"	1-1/4"	3-1/4"	4
EMG031609	9/16"	1/2"	1-3/8"	3-3/8"	4
EMG030805	5/8"	5/8"	1-5/8"	3-3/4"	4
EMG030403	3/4"	3/4"	1-5/8"	3-7/8"	4
EMG030143	1"	3/4"	1-7/8"	4-1/8"	4
EMG030101	1"	1"	2"	4-1/2"	4
EMG030141	1-1/4"	1-1/4"	2"	4-1/2"	4
EMG030121	1-1/2"	1-1/4"	2"	4-1/2"	4

*Non-standard size or product parameters not listed above, can be customized according to customer needs

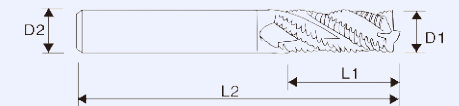


HSS MULTI FLUTE END MILLS ROUGHING CUTTERS



The General purpose rougher is designed for high production metal removal in wide range of work piece material.

- ◆ Can milling of copper, aluminum, tool steel, cast iron, and cutting steel grade, etc.
- ◆ Available with Coarse Pitch or Fine Pitch.
- ◆ Available with 3 flute/4 flute /5 flute cutting
- ◆ Available with Non-coated or TiCN Coated.



EMG-08

Unit: Metric

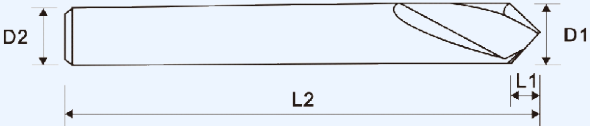
EDP #	Mill Diameter	Shank Dia	Flute length	O.A.L	Flutes
	D1	D2	L1	L2	
EMG08060	6	8	15	60	4
EMG08080	8	10	20	65	4
EMG08100	10	12	25	75	4
EMG08120	12	12	30	80	4
EMG08140	14	16	35	90	4
EMG08160	16	14	40	105	4
EMG08180	18	20	40	110	4
EMG08200	20	20	45	120	4
EMG08220	22	20	45	145	4
EMG08250	25	25	50	125	4
EMG08280	28	25	55	125	4
EMG08300	30	25	55	125	4
EMG08320	32	32	60	145	4

EMG-09

Unit: UK

EDP #	Mill Diameter	Shank Dia	Flute length	O.A.L
	D1	D2	L1	L2
EMG090401	1/4"	3/8"	5/8"	2-7/16"
EMG091605	5/16"	3/8"	3/4"	2-1/2"
EMG090803	3/8"	3/8"	3/4"	2-1/2"
EMG090201	1/2"	1/2"	1-1/4"	3-1/4"
EMG090805	5/8"	5/8"	1-5/8"	3-3/4"
EMG090403	3/4"	3/4"	1-5/8"	3-3/4"
EMG090143	1"	3/4"	2"	4-1/4"
EMG090101	1"	1"	2"	4-1/2"
EMG090141	1-1/4"	1-1/4"	2"	4-1/2"

*Non-standard size or product parameters not listed above, can be customized according to customer needs



NC-SPOTTING. DRILLS.Chamfer drills - HSS(8% COBALT).

UNCOATED OR TIN COATING

90° and 120° NC Spot / Chamfer drills can be used as a spotting tool for 118°, 120°, 130° or 135° high speed steel drills. They are also used as chamfering tools for tap drill holes.

EDP NO.	EDP.NO	Mill diameter	Shank Dia	Flute length	O.A.L
Non-coated	Titanium coating	D1	D2	L1	L2
EMG20030	EMG21030	3.0	3	12	46
EMG20040	EMG21040	4.0	4	12	55
EMG20050	EMG21050	5.0	5	15	60
EMG20060	EMG21060	6.0	6	20	66
EMG20080	EMG21080	8.0	8	25	79
EMG20100	EMG21100	10.0	10	25	89
EMG20120	EMG21120	12.0	12	30	102
EMG20140	EMG21140	14.0	14	35	110
EMG20160	EMG21160	16.0	16	35	115
EMG20180	EMG21180	18.0	18	40	125
EMG20200	EMG21200	20.0	20	40	131
EMG20250	EMG21250	25.0	25	65	150

EDP NO.	EDP.NO	Mill diameter	Shank Dia	Flute length	O.A.L
Non-coated	Titanium coating	D1	D2	L1	L2
EMG22030	EMG23030	3.0	3	17	120
EMG22040	EMG23040	4.0	4	20	120
EMG22050	EMG23050	5.0	5	23	120
EMG22060	EMG23060	6.0	6	25	150
EMG22080	EMG23080	8.0	8	28	150
EMG22100	EMG23100	10.0	10	35	150
EMG22120	EMG23120	12.0	12	40	150
EMG22160	EMG23160	16.0	16	45	200
EMG22200	EMG23200	20.0	20	55	250

*Non-standard size or product parameters not listed above,can be customized according to customer needs



MACHINE REAMERS, CHUCKING REAMERS, HAND REAMERS, TAPER SHANK REAMERS

■HSS Spiral Flute Straight Shank Machine Chucking Reamer - EMG24/25 Series



Design for use in turret lathes, screw machines, drill presses and all type of machine tool equipment

- ◆ Ground with a 45° chamfer, suitable for reaming most materials
- ◆ Use for difficult to ream materials
- ◆ Material Made of High Speed Steel: HSS M2, M35 Grade
- ◆ Finish Sand Blast of Steamed Black
- ◆ Square End on Straight Shank Allows Reamer can be used by Operated Hand Wrench
- ◆ Tolerance H7
- ◆ Helix Angle 7°
- ◆ Size Range: Metric: 2mm to 75mm Imperial : 1/16" to 3" inches
- ◆ Shank Type: Straight/Parallel Shank

EDP #	Mill Diameter	Flute length	O.AL
	D1	L1	L2
EMG.24.025	2.5	29	58
EMG.24.030	3.0	31	62
EMG.24.035	3.5	35	70
EMG.24.040	4.0	38	76
EMG.24.045	4.5	40	80
EMG.24.050	5.0	43	86
EMG.24.055	5.5	45	90
EMG.24.060	6.0	45	90
EMG.24.070	7.0	50	100
EMG.24.080	8.0	58	115
EMG.24.090	9.0	60	120
EMG.24.100	10.0	65	130
EMG.24.120	12.0	70	140
EMG.24.140	14.0	80	160
EMG.24.160	16.0	85	170
EMG.24.6405	5/64	25	50
EMG.24.6407	7/64	31	62
EMG.24.0801	1/8	33	66
EMG.24.6409	9/64	35	70
EMG.24.3205	5/32	38	76
EMG.24.1603	3/16	44	88
EMG.24.3207	7/32	45	90
EMG.24.0401	1/4	50	100
EMG.24.1605	5/16	58	115
EMG.24.0803	3/8	66	132
EMG.24.0201	1/2	75	150
EMG.24.0805	5/8	85	170

*Non-standard size or product parameters not listed above,can be customized according to customer needs