



UNT PRECISION CUTTING TOOLS CO., LTD

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

EME+EMF+EMS

Carbide End Mills

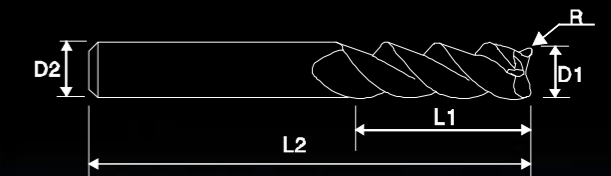
For Aluminum Alloys + Copper Alloys
For Graphite+Carbon Fibre+Fibre Glass.
For Acrylic and PVC



Roughing end mills with fine teeth end milling cutter for aluminium wave cutters

EME08 3 FLUTE ROUGH CUTTING FOR ALUMINUM, COPPER

- Ultra-micrograin carbide supplies the rigidity to keep the chips flying.
- Highly polished 3-flute design ensures they'll keep flying – cut after cut.
- Unique 3-flute, 45-degree helix design can operate at lower speeds with higher efficiency.



EDP #	Mill Diameter	Shank Dia	Flute length	O.A.L		Flutes
	D1	D2	L1	L2		
EME0805050	5.0	6	13	50	3	
EME0806050	6.0	6	16	50	3	
EME0808060	8.0	8	20	60	3	
EME0810075	10.0	10	25	75	3	
EME0812075	12.0	12	30	75	3	
EME0814100	14.0	14	40	100	3	
EME0816100	16.0	16	40	100	3	
EME0820100	20.0	20	40	100	3	

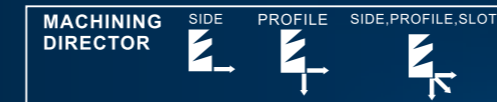
*Non-standard size or product parameters not listed above, can be customized according to customer needs.

EME

HIGH PERFORMANCE CUTTING END MILLS FOR ALUMINUM ALLOYS

3 FLUTE DESIGN "TO THE CENTER"- CUTTING TOOLS

- EME series End Mills for Aluminum and non-Ferrous Material.
- Well-designed for the plunge cutting, pocketing and general purpose
- Large rake angle and unique flute design improve sharpness and chip evacuation.
- Corner edge with gash land improves cutting edge strength.
- These are designed for slotting, drilling, pocketing and general-purpose operation.



Application	Radius Milling		Copy Milling		Pocket Milling	
	Roughing	Finishing	Roughing	Finishing	Roughing	Finishing
Ballnose type	⊙	⊙	⊙	⊙	⊙	⊙

NO:1



High-speed end milling cutter for aluminium slot drills

EME series for Aluminum, Aluminum Die Cast, Non-ferrous Alloy and Plastic.
SPEED, STRENGTH & SHARPNESS

EME TYPE	SIZE RANGE	
	INCH	METRIC
2 Flute Square	Φ1/8~1	Φ3~25mm
2 Flute Square with Neck	Φ1/4~1	Φ6~25mm
3 Flute Square	Φ1/8~1	Φ3~25mm
3 Flute Square with Neck	Φ1/4~1	Φ6~25mm
3 Flute Corner Radius	Φ1/8~1(R0.01~R.25)	Φ6~20mm(R0.3~4mm)
3 Flute Corner Radius with Neck	Φ1/4~1(R0.01~R.25)	Φ6~20mm(R0.3~4mm)



Product Parameters

Coating	TAC/DLC/Diamond
Helix Angle	35/36/37
Material	IMC Carbide Rod
HRC	HRC40/45
Shank	Cylindrical
Mill Dia Tolerance	0-0.030
Shank Dia Tolerance	H6

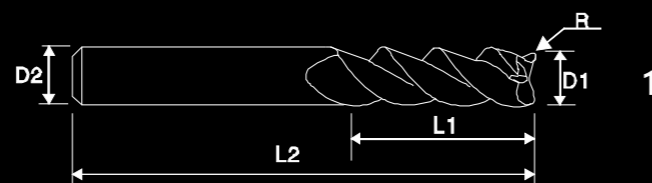
NO:2



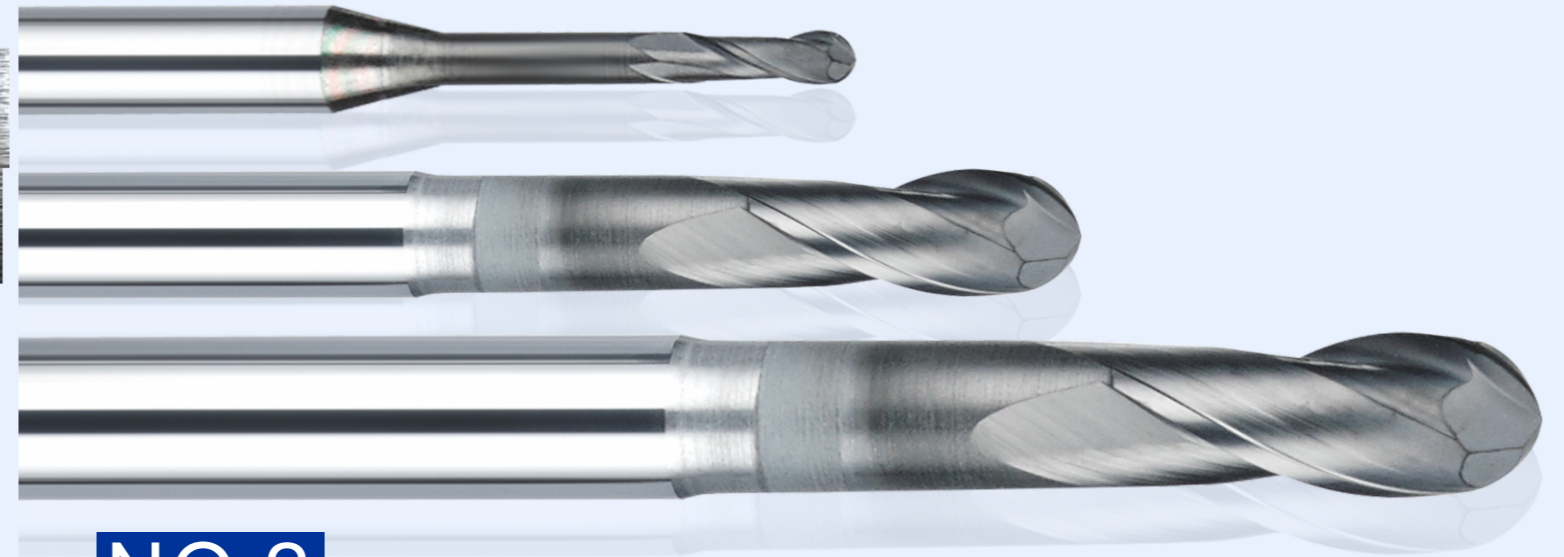
Roughing end mills with fine teeth end milling cutter for aluminium wave cutters

Keep Your Edge: SPEED, STRENGTH & SHARPNESS.

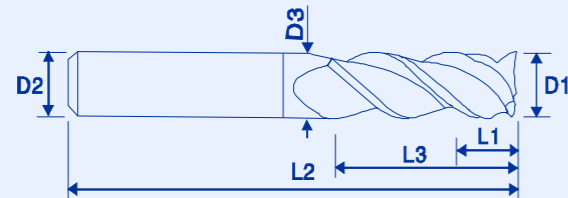
- 2 & 3 Flute
- Square End & Corner Radius
- Standard and Extended Length



DIAMOND COATED SOLID MILLING CUTTER GRAPHITE MILLING CUTTERS



NO:1



Application	Radius Milling		Copy Milling		Pocket Milling	
	Roughing	Finishing	Roughing	Finishing	Roughing	Finishing
Ballnose type	☉	☉	☉	☉	☉	☉

Premium Diamond Coated Carbide Milling Cutters for Graphite, Carbon Fibre and Fibre Glass

Specialist range for milling of highly abrasive metals, plastics & composites

Special geometries to prevent delamination of composites

Lapped flutes and double helix to prevent built up edge

Single polished flutes for good chip control

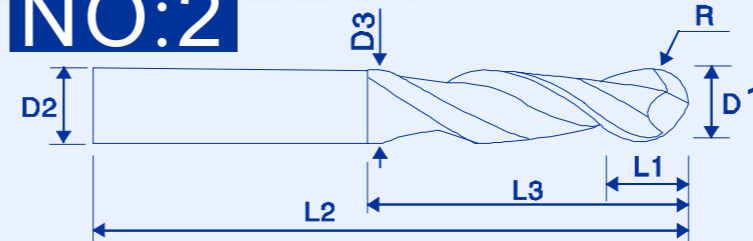
Down cut tools available for vacuum clamping

Application: Graphite, Carbon Fibre and Fibre Glass.

EDP #	Mill Diameter	Shank Dia	Flute length	Effective Length	O.A.L	Flutes	Graphite electrode processing	3D glass mold processing
	D1	D2	L1	L3	L2			
EMFC.01.00505003	0.5	4	1.5	3	50	4	★	★
EMFC.01.00505004	0.5	4	1.5	4	50	2	★	★
EMFC.01.00505006	0.5	4	1.5	6	50	2	★	★
EMFC.01.00505008	0.5	4	1.5	8	50	2	★	★
EMFC.01.00605010	0.6	4	1.8	10	50	2	★	★
EMFC.01.00805016	0.8	4	2.5	16	50	2	★	★
EMFC.01.01007515	1.0	4	3	15	75	2	★	★
EMFC.01.01505020	1.5	4	5	20	75	2	★	★
EMFC.02.02010040	2.0	4	6	40	100	4	★	★
EMFC.02.030075253	3.0	3	12	25	75	4	★	★
EMFC.02.03010030	3.0	4	12	30	100	4	★	★
EMFC.02.04010030	4.0	4	20	30	100	4	★	★
EMFC.02.06007520	6.0	6	20	20	75	4	★	★
EMFC.02.06015060	6.0	6	25	60	150	4	★	★
EMFC.02.08015060	8.0	8	30	60	150	4	★	★
EMFC.02.10015060	10.0	10	35	60	150	4	★	★
EMFC.02.12015060	12.0	12	40	60	150	4	★	★
EMFC.02.160180100	16.0	16	40	100	180	4	★	★

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NO:2



Application: Graphite electrode processing + 3D glass mold processing

EDP #	Radius	Shank Dia	Flute length	Effective Length	O.A.L	Flutes	Graphite electrode processing	Graphite electrode processing
	R	D2	L1	L3	L2			
EMFC.03.00605004	R0.3	4	1.2	4	50	2	★	★
EMFC.03.00605006	R0.3	4	1.2	6	50	2	★	★
EMFC.03.00605008	R0.3	4	1.2	8	50	2	★	★
EMFC.03.00805006	R0.4	4	1.6	6	50	2	★	★
EMFC.03.00805008	R0.4	4	1.6	8	50	2	★	★
EMFC.03.00805010	R0.4	4	1.6	10	50	2	★	★
EMFC.03.01005008	R0.5	4	2	8	50	2	★	★
EMFC.03.01005010	R0.5	4	2	10	50	2	★	★
EMFC.03.01005012	R0.5	4	2	12	50	2	★	★
EMFC.03.01006015	R0.5	4	2	15	60	2	★	★
EMFC.03.01006020	R0.5	4	2	20	60	2	★	★
EMFC.03.01505010	R0.75	4	3	10	50	2	★	★
EMFC.03.01505015	R0.75	4	3	15	50	2	★	★
EMFC.03.01507520	R0.75	4	3	20	75	2	★	★
EMFC.03.01507525	R0.75	4	3	25	75	2	★	★
EMFC.03.02005010	R1	4	4	10	50	2	★	★
EMFC.03.02005015	R1	4	4	15	50	2	★	★
EMFC.03.02007520	R1	4	4	20	75	2	★	★
EMFC.03.02007525	R1	4	4	25	75	2	★	★
EMFC.03.02007530	R1	4	4	30	75	2	★	★
EMFC.03.02010040	R1	4	4	40	100	2	★	★
EMFC.03.03005015	R1.5	4	6	15	50	2	★	★
EMFC.03.03006015	R1.5	4	6	15	60	2	★	★
EMFC.03.030060153	R1.5	3	6	15	60	2	★	★
EMFC.03.03007525	R1.5	4	6	25	75	2	★	★
EMFC.03.030075253	R1.5	3	6	25	75	2	★	★

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CARBIDE END MILLS FOR PLASTICS

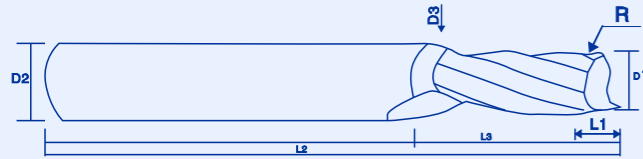
SQUARE UPCUT - SINGLE FLUTE



Application	Radius Milling		Copy Milling		Pocket Milling	
	Roughing	Finishing	Roughing	Finishing	Roughing	Finishing
Ballnose type						

End Mill for Acrylic, Plastic, Aluminum etc

- (1) MDF, particle board, board with lagging, log, affixed to the skin panels;
- (2) Acrylic, PVC, resin, plastic, chipboard, composite board, melamine board;
- (3) Solid wood, native wood, plywood, lotus plate;



- These tools are especially suitable to produce a high surface quality.
- The symmetrical arrangement of the flutes and the resulting high concentricity, make these tools also suitable for the production of fits.
- In addition, coated micro tools with an extremely short flute for steel machining are also available.

EMS

SIZES RANGING FROM 0.118" TO 0.625"

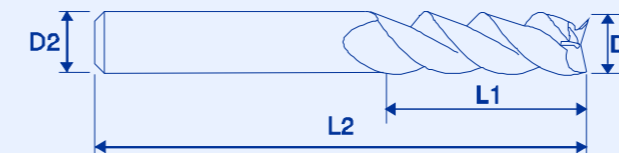
EDP #	Mill Diameter	Shank Dia	Flute length	O.A.L	Flutes	Coating or Non
	D1	D2	L1	L2		
EMS.01.005/D	0.5	4	2	50	Single Flute	Non/Coated
EMS.01.008/D	0.8	4	3	50	Single Flute	Non/Coated
EMS.01.010/D	1.0	4	3	50	Single Flute	Non/Coated
EMS.01.012/D	1.2	4	3	75	Single Flute	Non/Coated
EMS.01.015/D	1.5	4	4	50	Single Flute	Non/Coated
EMS.01.020/D	2.0	4	6	50	Single Flute	Non/Coated
EMS.01.025/D	2.5	4	6	50	Single Flute	Non/Coated
EMS.01.030/D	3.0	4	8	50	Single Flute	Non/Coated
EMS.01.040/D	4.0	4	11	50	Single Flute	Non/Coated
EMS.01.050/D	5.0	6	13	50	Single Flute	Non/Coated
EMS.01.060/D	6.0	6	16	50	Single Flute	Non/Coated
EMS.01.080/D	8.0	8	20	60	Single Flute	Non/Coated
EMS.01.100/D	10.0	4	25	75	Single Flute	Non/Coated
EMS.01.120/D	12.0	12	30	75	Single Flute	Non/Coated
EMS.01.3005/D	0.5	3	2	38	Single Flute	Non/Coated
EMS.01.3010/D	1.0	3	3	38	Single Flute	Non/Coated
EMS.01.3015/D	1.5	3	4	38	Single Flute	Non/Coated
EMS.01.3020/D	2.0	3	6	38	Single Flute	Non/Coated

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ALU- HIGH PERFORMANCE CUTTING END MILLS FOR ALUMINUM ALLOYS, COPPER

- Designed for Aluminum Alloys used in Aerospace industries.
- Special geometries applied to control weight balance for quality performance on higher RPM making an excellent surface finish through stable machining
- High corner protection made from special shape and rake angle inside the radius
- Excellent performance with high feed, high RPM, high chip removal (heavy cutting)

2/3 Flute Square
 2/3 Flute Square with Neck
 2/3 Flute Corner Radius
 2/3 Flute Corner Radius with Neck
 Size: Φ 3~25mm



EDP #	Mill Diameter	Shank Dia	Flute length	O.A.L	Flutes
	D1	D2	L1	L2	
EME03010	1.0	4	3	50	3
EME03015	1.5	4	4	50	3
EME03020	2.0	4	6	50	3
EME03025	2.5	4	6	50	3
EME03030	3.0	4	8	50	3
EME03040	4.0	4	11	50	3
EME030505	5.0	5	13	50	3
EME03050	5.0	6	13	50	3
EME03060	6.0	6	16	50	3
EME03070	7.0	8	20	60	3
EME03080	8.0	8	20	60	3
EME03090	9.0	10	25	75	3
EME03100	10.0	10	25	75	3
EME03120	12.0	12	30	75	3
EME03140	14.0	14	40	100	3
EME03160	16.0	16	40	100	3
EME03200	20.0	20	40	100	3

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