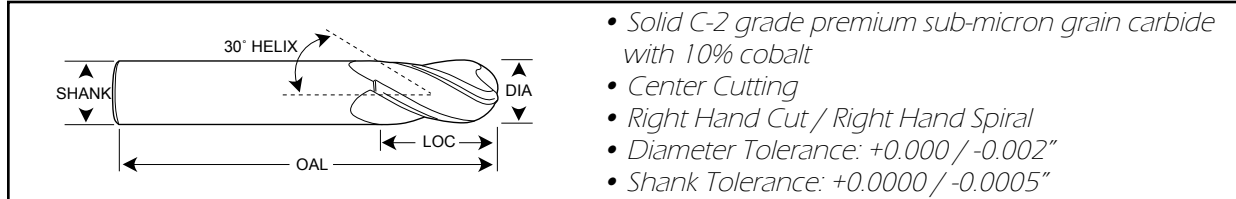


STANDARD ENDMILLS 4 FLUTE BALLNOSE



4 flute geometry offers increased core strength



Applications:

- Profiling, slotting, production milling and finishing applications
- Ball end allows for three axis contour slotting and contour finishing

Materials:

- A wide range of ferrous metals, including stainless steels and high temperature alloys

STUB LENGTH: Reduces tool deflection and promotes rigidity - Maintains excellent surface finishes

REGULAR LENGTH: Standard flute lengths for general all purpose milling

LONG, XLONG & EXTENDED LENGTHS: For deep pocket milling and long reach applications

4 FLUTE BALLNOSE

DIA	Decimal Inches	LOC	SHANK	OAL	LENGTH	UNCOATED	TiN Coated	TiCN Coated	TiAlN Coated
1/64	0.0156	3/64	1/8	1-1/2	Regular	223-000998	223-000995	223-020998	223-001007
1/32	0.0312	1/16	1/8	1-1/2	Stub	220-001001	220-001002	220-001003	220-001004
1/32	0.0312	1/8	1/8	1-1/2	Regular	223-000999	223-001003	223-000996	223-001009
1.0 mm	0.0394	4.0 mm	3.0 mm	39.0 mm	Regular	223-001400	—	—	223-001400B
1.0 mm	0.0394	5.5 mm	3.0 mm	39.0 mm	Regular	223-001401	—	—	—
3/64	0.0469	3/32	1/8	1-1/2	Stub	220-001010	220-001011	220-001012	220-001013
3/64	0.0469	1/8	1/8	1-1/2	Regular	223-001000	223-001004	223-021000	223-001014
1.5 mm	0.0591	5.0 mm	3.0 mm	39.0 mm	Regular	223-001405	—	—	223-001410B
1.5 mm	0.0591	6.5 mm	3.0 mm	39.0 mm	Regular	223-001410	—	—	—
1/16	0.0625	1/8	1/8	1-1/2	Stub	220-001020	220-001022	220-001021	220-001023
1/16	0.0625	1/4	1/8	1-1/2	Regular	223-001001	223-001002	223-001015	223-001016
5/64	0.0781	5/32	1/8	1-1/2	Stub	220-001025	220-011025	220-021025	220-031025
5/64	0.0781	1/4	1/8	1-1/2	Regular	223-001005	223-001006	223-001008	223-001019
2.0 mm	0.0787	8.0 mm	3.0 mm	39.0 mm	Regular	223-001421	—	—	223-001420B
3/32	0.0938	3/16	1/8	1-1/2	Stub	220-001030	220-001032	220-001031	220-001033
3/32	0.0938	3/8	1/8	1-1/2	Regular	223-001010	223-001011	223-001012	223-001013
2.5 mm	0.0984	9.5 mm	3.0 mm	39.0 mm	Regular	223-001425	—	—	223-001425B
7/64	0.1094	7/32	1/8	1-1/2	Stub	220-001035	220-011035	220-021035	220-031035
7/64	0.1094	3/8	1/8	1-1/2	Regular	223-001017	223-001052	223-021051	223-001039
3.0 mm	0.1181	12.0 mm	3.0 mm	39.0 mm	Regular	223-001430	—	—	223-001430B
1/8	0.1250	1/4	1/8	1-1/2	Stub	220-001040	220-001042	220-001041	220-001043
1/8	0.1250	1/2	1/8	1-1/2	Regular	223-001020	223-001021	223-001023	223-001028
1/8	0.1250	3/4	1/8	2-1/4	Long	226-001001	226-001002	226-001003	226-001004
1/8	0.1250	1	1/8	3	XL	229-001001	229-001002	229-001003	229-001004
3.5 mm	0.1378	12.0 mm	4.0 mm	51.0 mm	Regular	223-001435	—	—	223-001435B

MILL MONSTER