

Solid Carbide End Mills

Four Flute End Mills: Produce finer finishes, recommend for finishing operation.
Two Flute End Mills: Allow maximum chip ejection compare to four flute, recommend for roughing operation.

- Made of micro-grain tungsten carbide material.
- Suitable for general purpose of machining cast Iron, alloy steel, stainless steel, non-ferrous and non-metals material.
- Center cutting allows for three axis profile milling and plunge cutting.
- 30° Helix Flutes for both nonferrous and ferrous materials.
- Better surface finish on work piece.
- Higher feed rates and long tool life.

Tolerance

Shank Diameter :..... -0.0000"/-0.0005"
Cutter Diameter:
 1/32" thru 1/4".....+0.000"/-0.002"
 9/32" thru 1"+0.000"/-0.003"

Single End Mills



Size	Shank Dia.	Flute Length	Overall Length	2 Flute Order No.	4 Flute Order No.
1/16"	1/8"	3/16"	1-1/2"	244-2204	244-2404
3/32	1/8	3/8	1-1/2	244-2210	244-2410
1/8	1/8	1/2	1-1/2	244-2216	244-2416
5/32	3/16	9/16	2	244-2222	244-2422
3/16	3/16	5/8	2	244-2228	244-2428
7/32	1/4	5/8	2-1/2	244-2234	244-2434
1/4	1/4	3/4	2-1/2	244-2240	244-2440
9/32	5/16	7/8	2-1/2	244-2246	244-2446
5/16	5/16	3/4	2-1/2	244-2252	244-2452
3/8	3/8	7/8	2-1/2	244-2258	244-2458
7/16	7/16	7/8	2-1/2	244-2264	244-2464
1/2	1/2	1	3	244-2270	244-2470
9/16	9/16	1-3/8	3	244-2276	244-2476
5/8	5/8	1-3/8	3-1/2	244-2282	244-2482
11/16	3/4	1-1/2	4	244-2288	244-2488
3/4	3/4	1-1/2	4	244-2294	244-2494
7/8	7/8	1-1/2	4	244-2300	244-2500
1	1	1-1/2	4	244-2306	244-2506

Double End Mills



Size	Shank Dia.	Flute Length	Overall Length	2 Flute Order No.	4 Flute Order No.
1/16"	1/8"	1/8"	1-1/2"	244-2604	244-2804
3/32	1/8	3/16	1-1/2	244-2610	244-2810
1/8	1/8	1/4	1-1/2	244-2616	244-2816
5/32	3/16	5/16	2	244-2622	244-2822
3/16	3/16	3/8	2	244-2628	244-2828
7/32	1/4	1/2	2-1/2	244-2634	244-2834
1/4	1/4	1/2	2-1/2	244-2640	244-2840
5/16	5/16	1/2	2-1/2	244-2652	244-2852
3/8	3/8	9/16	2-1/2	244-2658	244-2858
7/16	7/16	5/8	3	244-2664	244-2864
1/2	1/2	5/8	3	244-2670	244-2870

Single End Mills For Mild Steel

**Carbide Tipped ,
Spiral Flute, Right Hand,
Straight Shank**



Size	Shank Dia.	Flute Length	Overall Length	No. of Flutes	Order No.
1/4"	3/8"	1/2"	2-1/2"	2	243-0020
5/16	3/8	5/8	2-1/2	2	243-0040
3/8	3/8	5/8	2-1/2	2	243-0060
7/16	3/8	1	2-11/16	2	243-0080
1/2	1/2	1	3-1/4	2	243-0100
9/16	1/2	1	3-3/8	2	243-0120
5/8	1/2	1	3-3/8	4	243-0140
5/8	5/8	1-1/4	3-5/8	3	243-0145
3/4	5/8	1	3-5/8	4	243-0160
3/4	3/4	1-1/2	4-1/8	3	243-0165
7/8	5/8	1-1/4	4	4	243-0180
1	7/8	1-1/4	4	4	243-0200
1	1	1-3/4	4-3/4	4	243-0205
1-1/8	1	1-1/4	4-1/4	4	243-0220
1-1/8	1	1-3/4	4-3/4	4	243-0225
1-1/4	1	1-1/4	4-1/4	4	243-0240
1-1/4	1-1/4	2-1/8	5-1/4	4	243-0245
1-3/8	1-1/4	2-1/8	5-1/4	4	243-0250
1-1/2	1-1/4	1-1/2	4-1/2	4	243-0260
1-1/2	1-1/2	2-1/2	6-1/8	4	243-0265
1-3/4	1-1/2	2-1/2	6-1/8	4	243-0270
2	1-1/4	1-1/2	4-1/2	6	243-0300
2	2	3	7	6	243-0305

Carbide Tipped Single End Mills For Cast Iron

**Spiral Flute, Right Hand,
Straight Shank**



Size	Shank Dia.	Flute L	OAL	No. of Flutes	Order No.
1/4"	3/8"	1/2"	2-1/2"	4	243-1020
5/16	3/8	5/8	2-1/2	4	243-1040
3/8	3/8	5/8	2-1/2	4	243-1060
7/16	3/8	1	2-11/16	4	243-1080
1/2	1/2	1	3-1/4	4	243-1100
9/16	1/2	1	3-3/8	4	243-1120
5/8	1/2	1	3-3/8	4	243-1140
3/4	5/8	1	3-5/8	4	243-1160
7/8	5/8	1-1/4	4	4	243-1180
1	7/8	1-1/4	4	4	243-1200
1-1/8	1	1-1/4	4-1/4	4	243-1220
1-1/4	1	1-1/4	4-1/4	4	243-1240
1-1/2	1-1/4	1-1/2	4-1/2	4	243-1260
1-3/4	1-1/4	1-1/2	4-1/2	6	243-1280
2	1-1/4	1-1/2	4-1/2	6	243-1300

Carbide Tipped 2 Flute Single End Mills

Straight Flute, Positive Rake, 90° Square Shoulder

- Used for N.C. machines and standard millers.
- Ideal for use in key-way slotting, slab milling, 90° shoulder milling.



Size	Shank Dia.	Flute Length	Overall Length	No. of Flutes	Order No.
5/16"	3/8"	1/2"	2-3/8"	2	243-0312
3/8	3/8	5/8	2-5/8	2	243-0375
1/2	1/2	5/8	2-3/4	2	243-0500
9/16"	5/8"	3/4"	2-7/8"	2	243-0562
5/8	5/8	3/4	2-7/8	2	243-0625
3/4	3/4	1	3-5/32	2	243-0750