

# SOLID CARBIDE END MILLS

## 2 Flute Inches Ball Nose - Regular Length



### Features

- Manufactured from premium micrograin 10% cobalt carbide.
- Center Cutting
- Designed with a full radius for maximum chip clearance at higher feed rates
- For milling cast iron, non-ferrous metals and other easy to machine materials.
- Tolerances Dia, +.000/-.002. Shank +.0/-0.0005

Mill Dia.	Shank Dia.	Length Of Cut	Overall Length	Uncoated Order #	List Price	TiN Order #	List Price	TiAlN Order #	List Price
1/8"	1/8"	1/2"	1-1/2"	21232	770	21236	886	21240	924
5/32"	3/16"	9/16"	2"	21304	1012	21308	1164	21312	1214
3/16"	3/16"	5/8"	2"	21352	1012	21356	1164	21360	1214
7/32"	1/4"	5/8"	2 - 1/2"	21424	1333	21428	1533	21432	1600
1/4"	1/4"	3/4"	2 - 1/2"	21460	1333	21464	1533	21468	1600
9/32"	5/16"	3/4"	2 - 1/2"	21508	1502	21512	1727	21516	1802
5/16"	5/16"	13/16"	2 - 1/2"	21532	1502	21536	1727	21540	1802
3/8"	3/8"	1"	2 - 1/2"	21604	2798	21608	3218	21612	3358
7/16"	7/16"	1"	2- 3/4"	21676	3251	21680	3739	21684	3901
1/2"	1/2"	1"	3"	21724	3251	21728	3739	21732	3901
5/8"	5/8"	1- 1/4"	3 - 1/2"	21784	6168	21788	7093	21792	7402
3/4"	3/4"	1- 1/2"	4"	21832	13115	21836	15082	21840	15738
1"	1"	1- 1/2"	4"	21892	17171	21896	19747	21900	20605

## 4 Flute Inches Ball Nose - Regular Length



### Features

- Manufactured from premium micrograin 10% cobalt carbide.
- Center Cutting
- 4 flute ball end mills are manufactured with a full radius for slotting, profile and contour milling.
- The 4 flute design increases tool strength and helps reduce deflection.
- Tolerances Dia, +.000/-.002. Shank +.0/-0.0005

Mill Dia.	Shank Dia.	Length Of Cut	Overall Length	Uncoated Order #	List Price	TiN Order #	List Price	TiAlN Order #	List Price
1/8"	1/8"	1/2"	1-1/2"	23162	770	23166	886	23170	924
5/32"	3/16"	9/16"	2"	23246	1012	23250	1164	23254	1214
3/16"	3/16"	5/8"	2"	23282	1012	23286	1164	23290	1214
7/32"	1/4"	5/8"	2-1/2"	23342	1333	23346	1533	23350	1600
1/4"	1/4"	3/4"	2-1/2"	23378	1333	23382	1533	23386	1600
9/32"	5/16"	3/4"	2-1/2"	23438	1502	23442	1727	23446	1802
5/16"	5/16"	13/16"	2-1/2"	23474	1502	23478	1727	23482	1802
3/8"	3/8"	1"	2-1/2"	23534	2798	23538	3218	23542	3358
7/16"	7/16"	1"	2-3/4"	23582	3251	23586	3739	23590	3901
1/2"	1/2"	1"	3"	23630	3251	23634	3739	23638	3901
5/8"	5/8"	1-1/4"	3-1/2"	23714	6168	23718	7093	23722	7402
3/4"	3/4"	1-1/2"	4"	23786	13115	23790	15082	23794	15738
1"	1"	1-1/2"	4"	23846	17171	23850	19747	23854	20605