



4fl Rougher/ Finisher



- Roughing/Finishing End Mills are used for removing large amounts of material quickly but leaving behind a finish that's almost as smooth as a traditional end mill
- Offers exceptional performance in high temperature resistance in a wide range of ferrous materials, including cast iron, tool steels and low and medium alloy steels
- Saves time over a traditional two-step roughing and finishing process
- Alcrona coating offers high resistance to materials over 42 Rc, which can help increase speeds and feeds as well as tool life
- Talon coating is formulated for super alloys, such as nickel, inconel and waspaloy
- All Tools 1/2" & Under get a .020" x 45° Chamfer
- All Tools 5/8" & Over get a .030" x 45° Chamfer
- For Weldon Flat – Add W to the part number and add \$6.00 to cost

Cutting Diameter	Flute Length	Overall Length	Shank Diameter	Alcrona		Talon		AlTiN	
				Part No.	Cost	Part No.	Cost	Part No.	Cost
3/8"	3/4"	2.5"	3/8"	416049	\$105.25	417047	\$117.46	419049	\$98.33
3/8"	1.0"	3.0"	3/8"	416059	\$123.06	417057	\$135.27	419059	\$116.14
3/8"	1.25"	3.0"	3/8"	416069	\$123.06	417067	\$135.27	419069	\$116.14
3/8"	2.0"	4.0"	3/8"	416079	\$144.78	417077	\$160.51	419079	\$135.95
1/2"	1.0"	3.0"	1/2"	416089	\$157.01	417087	\$172.56	419089	\$148.88
1/2"	1.25"	3.0"	1/2"	416099	\$157.01	417097	\$172.56	419099	\$148.88
1/2"	1.625"	4.0"	1/2"	416109	\$185.69	417107	\$205.86	419109	\$175.06
5/8"	1.25"	3.5"	5/8"	416129	\$262.21	417127	\$284.66	419129	\$250.43
5/8"	1.625"	4.0"	5/8"	416139	\$276.95	417137	\$299.40	419139	\$265.17
3/4"	1.0"	4.0"	3/4"	416169	\$394.24	417167	\$420.82	419169	\$380.30
3/4"	1.625"	4.0"	3/4"	416179	\$421.98	417177	\$448.57	419179	\$408.04
3/4"	2.25"	5.0"	3/4"	416189	\$490.14	417187	\$522.70	419189	\$473.07