

PREMIUM (10% COBALT) MICROGRAIN CARBIDE SOLID CARBIDE ROUGHING END MILLS

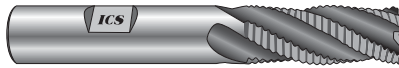
ICS

USA

HEAVY DUTY

NON-CENTER CUTTING

**WELDON SHANKS
3/8" TO 1" DIA.**



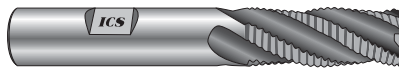
Type "A" for Aluminum Alloys

**RIGHT HAND CUT
RIGHT HAND HELIX**

Type "A" Solid Carbide Roughing End Mills are designed with a special tool geometry for maximum stock removal when milling aluminum, brass, and copper alloys. Corner radius design eliminates corner chipping.

SIZE	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	FLUTES	PRICE EACH		
					TiN COATED	TiCN COATED	TiAlN COATED
					SCREMAT	SCREMATC	SCREMATA
1/4	1/4	3/4	2-1/2	3	\$93.94	\$99.48	\$101.60
5/16	5/16	3/4	2-1/2	3	106.76	115.26	115.26
3/8	3/8	7/8	2-1/2	3	122.12	131.08	135.26
1/2	1/2	1	3	4	167.54	177.60	193.08
5/8	5/8	1-1/4	3-1/2	4	239.10	257.44	264.66
3/4	3/4	1-5/8	4	4	305.76	323.86	331.30
1	1	1-3/4	4	5	485.38	511.26	516.02

**WELDON SHANKS
3/8" TO 1" DIA.**



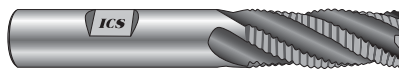
Type "N" for Nickel Alloys

**RIGHT HAND CUT
RIGHT HAND HELIX**

Type "N" Solid Carbide Roughing End Mills are designed with a special tool geometry for maximum stock removal when milling Titanium, Inconel, Rene, Waspaloy and high temperature nickel base alloys. Corner radius design eliminates corner chipping.

SIZE	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	FLUTES	PRICE EACH		
					TiN COATED	TiCN COATED	TiAlN COATED
					SCREMNT	SCREMNTC	SCREMNTA
1/4	1/4	3/4	2-1/2	3	\$93.94	\$99.48	\$101.60
5/16	5/16	3/4	2-1/2	3	106.76	115.26	115.26
3/8	3/8	7/8	2-1/2	3	122.12	131.08	135.26
1/2	1/2	1	3	4	167.54	177.60	193.08
5/8	5/8	1-1/4	3-1/2	4	239.10	257.44	264.66
3/4	3/4	1-5/8	4	4	305.76	323.86	331.30
1	1	1-3/4	4	5	485.38	511.26	516.02

**WELDON SHANKS
3/8" TO 1" DIA.**



Type "S" for Steel Alloys

**RIGHT HAND CUT
RIGHT HAND HELIX**

Type "S" Solid Carbide Roughing End Mills are designed with a special tool geometry for maximum stock removal when milling mild steel, steel alloys, stainless steel, and cast iron. Corner radius design eliminates corner chipping.

SIZE	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	FLUTES	PRICE EACH		
					TiN COATED	TiCN COATED	TiAlN COATED
					SCREMST	SCREMSTC	SCREMSTA
1/4	1/4	3/4	2-1/2	3	\$93.94	\$99.48	\$101.60
5/16	5/16	3/4	2-1/2	3	106.76	115.26	115.26
3/8	3/8	7/8	2-1/2	3	122.12	131.08	135.26
1/2	1/2	1	3	4	167.54	177.60	193.08
5/8	5/8	1-1/4	3-1/2	4	239.10	257.44	264.66
3/4	3/4	1-5/8	4	4	305.76	323.86	331.30
1	1	1-3/4	4	5	485.38	511.26	516.02

TOLERANCES
Flute Dia.: + .000 - .004"
Shank Dia.: + .0001 - .0004"

CORNER RADIUS
1/4 to 5/16 = .045
3/8 to 1 = .060