

**PREMIUM (10% COBALT) MICROGRAIN CARBIDE**  
**SOLID CARBIDE 3 FLUTE END MILLS**

ICS

USA

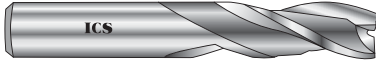
**HEAVY DUTY**

**CENTER CUTTING**

Micro-Grain Solid Carbide End Mills were developed for machining tough work hardening metals, stainless steel, titanium, monel, inconel, and super alloys. It is extremely shock resistant.

**3 FLUTE - SINGLE END**

**3 FLUTE SINGLE END (BALL NOSE)**



REGULAR LENGTH



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SIZE	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	PRICE EACH	
				SOLID CARBIDE SCEM-3R	TIN COATED SCEM-3T
1/64	1/8	1/32	1-1/2	\$34.90	\$37.92
1/32	1/8	5/64	1-1/2	20.32	23.30
3/64	1/8	7/64	1-1/2	20.32	23.30
1/16	1/8	3/16	1-1/2	16.56	19.56
5/64	1/8	3/16	1-1/2	16.56	19.56
3/32	1/8	9/32	1-1/2	16.56	19.56
7/64	1/8	3/8	1-1/2	16.56	19.56
1/8	1/8	1/2	1-1/2	15.80	18.78
9/64	3/16	1/2	2	21.70	25.70
5/32	3/16	1/2	2	21.70	25.70
11/64	3/16	5/8	2	22.28	26.28
3/16	3/16	5/8	2	22.28	26.28
13/64	1/4	5/8	2-1/2	27.32	34.88
7/32	1/4	5/8	2-1/2	27.32	34.88
15/64	1/4	3/4	2-1/2	28.60	36.16
1/4	1/4	3/4	2-1/2	28.60	36.16
17/64	5/16	3/4	2-1/2	30.92	38.92
9/32	5/16	3/4	2-1/2	30.92	38.92
19/64	5/16	13/16	2-1/2	32.18	40.18
5/16	5/16	13/16	2-1/2	32.18	40.18
21/64	3/8	1	2-1/2	40.76	52.34
11/32	3/8	1	2-1/2	40.76	52.34
23/64	3/8	1	2-1/2	40.76	52.34
3/8	3/8	1	2-1/2	40.76	52.34
25/64	7/16	1	2-3/4	59.88	73.86
13/32	7/16	1	2-3/4	59.88	73.86
27/64	7/16	1	2-3/4	59.88	73.86
7/16	7/16	1	2-3/4	59.88	73.86
29/64	1/2	1	3	59.88	83.56
15/32	1/2	1	3	69.58	83.56
31/64	1/2	1	3	69.58	83.56
1/2	1/2	1	3	69.58	83.56
9/16	9/16	1-1/8	3-1/2	117.92	137.84
5/8	5/8	1-1/4	3-1/2	117.92	155.90
11/16	3/4	1-3/8	4	132.00	218.76
3/4	3/4	1-1/2	4	194.86	218.76
7/8	7/8	1-1/2	4	337.40	372.36
1	1	1-1/2	4	345.14	380.10

SIZE	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	PRICE EACH	
				SOLID CARBIDE SCEM-3B	TIN COATED SCEM-3BT
1/64	1/8	1/32	1-1/2	\$43.94	\$46.92
1/32	1/8	5/64	1-1/2	25.54	28.54
3/64	1/8	7/64	1-1/2	25.54	28.54
1/16	1/8	3/16	1-1/2	20.84	23.84
5/64	1/8	3/16	1-1/2	20.84	23.84
3/32	1/8	9/32	1-1/2	20.84	23.84
7/64	1/8	3/8	1-1/2	20.84	23.84
1/8	1/8	1/2	1-1/2	18.94	21.92
9/64	3/16	1/2	2	26.02	30.02
5/32	3/16	1/2	2	26.02	30.02
11/64	3/16	5/8	2	26.82	30.84
3/16	3/16	5/8	2	26.82	30.84
13/64	1/4	5/8	2-1/2	32.64	40.24
7/32	1/4	5/8	2-1/2	32.64	40.24
15/64	1/4	3/4	2-1/2	34.32	41.92
1/4	1/4	3/4	2-1/2	34.32	41.92
17/64	5/16	3/4	2-1/2	37.12	45.14
9/32	5/16	3/4	2-1/2	37.12	45.14
19/64	5/16	13/16	2-1/2	37.12	46.66
5/16	5/16	13/16	2-1/2	39.80	46.66
21/64	3/8	1	2-1/2	48.90	60.48
11/32	3/8	1	2-1/2	48.90	60.48
23/64	3/8	1	2-1/2	48.90	60.48
3/8	3/8	1	2-1/2	48.90	60.48
25/64	7/16	1	2-3/4	71.92	85.90
13/32	7/16	1	2-3/4	71.92	85.90
27/64	7/16	1	2-3/4	71.92	85.90
7/16	7/16	1	2-3/4	71.92	85.90
29/64	1/2	1	3	83.48	97.44
15/32	1/2	1	3	83.48	97.44
31/64	1/2	1	3	83.48	97.44
1/2	1/2	1	3	83.48	97.44
9/16	9/16	1-1/8	3-1/2	141.56	161.44
5/8	5/8	1-1/4	3-1/2	158.40	182.30
11/16	3/4	1-3/8	4	233.86	257.76
3/4	3/4	1-1/2	4	233.86	257.76
7/8	7/8	1-1/2	4	404.94	439.90
1	1	1-1/2	4	414.16	449.12

**TOLERANCES**  
 All Sizes Cut Dia.: + .000 - .002"  
 All Sizes Shank Dia.: - .0001 - .0004"