

**PREMIUM (10% COBALT) MICROGRAIN CARBIDE
SOLID CARBIDE 4 FLUTE END MILLS**

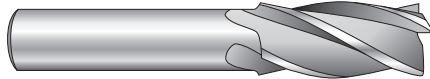
ICS USA

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.

4 Flute - Single End



REGULAR LENGTH

4 Flute Ball Nose Single End



REGULAR LENGTH

SIZE	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	PRICE EACH	
				SUPER COBALT	TIN COATED
				SCEM-4R	SCEM-4T
1/16	1/8	3/16	1-1/2	14.46	17.26
3/32	1/8	3/8	1-1/2	14.46	17.26
1/8	1/8	1/2	1-1/2	13.78	16.58
5/32	3/16	9/16	2	18.82	21.62
3/16	3/16	5/8	2	18.82	21.62
7/32	1/4	5/8	2-1/2	24.54	29.64
1/4	1/4	3/4	2-1/2	24.34	29.44
9/32	5/16	3/4	2-1/2	31.82	38.60
5/16	5/16	13/16	2-1/2	31.82	38.60
11/32	3/8	1	2-1/2	42.06	48.84
3/8	3/8	1	2-1/2	42.06	48.84
7/16	7/16	1	2-3/4	61.76	72.64
1/2	1/2	1	3	71.76	82.62
9/16	9/16	1-1/4	3-1/2	125.00	138.74
5/8	5/8	1-1/4	3-1/2	130.02	143.76
11/16	3/4	1-1/2	4	212.80	230.68
3/4	3/4	1-1/2	4	212.80	230.68
7/8	7/8	1-1/2	4	315.84	335.74
1	1	1-1/2	4	350.00	369.78

SIZE	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	PRICE EACH	
				SUPER COBALT	TIN COATED
				SCEM-4B	SCEM-4BT
1/16	1/8	3/16	1-1/2	17.62	20.42
3/32	1/8	3/8	1-1/2	17.62	20.42
1/8	1/8	1/2	1-1/2	17.62	20.42
5/32	3/16	9/16	2	23.78	26.58
3/16	3/16	5/8	2	23.78	26.58
7/32	1/4	5/8	2-1/2	28.36	33.48
1/4	1/4	3/4	2-1/2	31.58	36.68
9/32	5/16	3/4	2-1/2	39.82	46.60
5/16	5/16	13/16	2-1/2	39.82	46.60
3/8	3/8	1	2-1/2	51.06	57.84
7/16	7/16	1	2-1/2	66.42	77.28
1/2	1/2	1	2-3/4	86.12	96.98
9/16	9/16	1-1/4	3	142.02	155.76
5/8	5/8	1-1/4	3-1/2	158.54	172.26
11/16	3/4	1-1/2	3-1/2	263.06	280.92
3/4	3/4	1-1/2	4	228.64	246.52
7/8	7/8	1-1/2	4	377.30	397.08
1	1	1-1/2	4	406.42	426.20

4 Flute - Double End



REGULAR LENGTH

4 Flute Ball Nose Double End



REGULAR LENGTH

SIZE	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	PRICE EACH	
				SUPER COBALT	TIN COATED
				SDCEM-4R	SDCEM-4T
1/8	3/8	3/8	3-1/16	34.72	45.24
5/32	3/8	7/16	3-1/8	49.50	60.00
3/16	3/8	1/2	3-1/4	49.50	60.00
7/32	3/8	9/16	3-3/8	54.32	64.84
1/4	3/8	5/8	3-3/8	54.88	65.40
9/32	3/8	11/16	3-1/2	73.86	84.36
5/16	3/8	3/4	3-1/2	65.52	76.04
3/8	3/8	3/4	3-1/2	84.78	95.28
7/16	1/2	7/8	4	120.08	137.22
1/2	1/2	1	4	135.36	153.00

SIZE	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	PRICE EACH	
				SUPER COBALT	TIN COATED
				SDCEM-4B	SDCEM-4BT
1/8	3/8	3/8	3-1/16	42.26	52.76
5/32	3/8	7/16	3-1/8	60.16	70.66
3/16	3/8	1/2	3-1/4	60.16	70.66
7/32	3/8	9/16	3-3/8	66.04	76.56
1/4	3/8	5/8	3-3/8	66.76	77.26
9/32	3/8	11/16	3-1/2	93.08	103.58
5/16	3/8	3/4	3-1/2	75.82	86.32
3/8	3/8	3/4	3-1/2	98.12	108.62
7/16	1/2	7/8	4	139.34	156.98
1/2	1/2	1	4	156.60	174.26

TOLERANCES
 1/32" - 1/4" Flute Dia.: + .000 - .002"
 17/64" - 1" Flute Dia.: + .000 - .003"
 All Sizes Shank Dia.: + .000 - .005"