

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

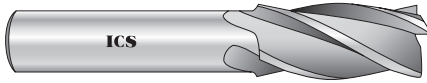
ICS USA

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



SIZE (mm)	SHANK DIA. (mm)	FLUTE LENGTH (mm)	OVERALL LENGTH (mm)	PRICE EACH	
				SOLID CARBIDE	TIN COATED
				SCDEMM-4R	SCDEMM-4T
1.0	3.0	4.0	38.0	\$16.58	\$18.82
1.5	3.0	4.5	38.0	16.58	18.82
2.0	3.0	6.3	38.0	16.58	18.82
2.5	3.0	9.5	38.0	16.58	18.82
3.0	3.0	12.0	38.0	15.80	18.04
3.5	4.0	12.0	50.0	21.76	24.00
4.0	4.0	14.0	50.0	21.76	24.00
4.5	6.0	16.0	50.0	27.36	30.50
5.0	6.0	16.0	50.0	27.36	30.50
6.0	6.0	19.0	50.0	28.66	31.80
7.0	8.0	19.0	63.0	31.10	36.02
8.0	8.0	20.0	63.0	32.36	37.28
9.0	10.0	22.0	75.0	48.32	57.28
10.0	10.0	22.0	75.0	60.18	69.14
11.0	12.0	25.0	75.0	66.26	75.22
12.0	12.0	25.0	75.0	69.88	78.84
14.0	14.0	32.0	89.0	118.56	129.76
16.0	16.0	32.0	89.0	132.66	147.22
18.0	18.0	38.0	100.0	195.80	210.36
20.0	20.0	38.0	100.0	282.10	298.10
25.0	25.0	38.0	100.0	369.32	385.34

4 FLUTE SINGLE END (BALL NOSE)



SIZE (mm)	SHANK DIA. (mm)	FLUTE LENGTH (mm)	OVERALL LENGTH (mm)	PRICE EACH	
				SOLID CARBIDE	TIN COATED
				SCDEMM-4B	SCDEMM-4BT
1.0	3.0	4.0	38.0	\$20.88	\$ 23.12
1.5	3.0	4.5	38.0	20.88	23.12
2.0	3.0	6.3	38.0	20.88	23.12
2.5	3.0	9.5	38.0	20.88	23.12
3.0	3.0	12.0	38.0	18.98	21.22
3.5	4.0	12.0	50.0	26.10	28.34
4.0	4.0	14.0	50.0	26.10	28.34
4.5	6.0	16.0	50.0	32.90	36.02
5.0	6.0	16.0	50.0	32.90	36.02
6.0	6.0	19.0	50.0	34.42	37.56
7.0	8.0	19.0	63.0	37.32	42.26
8.0	8.0	20.0	63.0	38.78	43.72
9.0	10.0	22.0	75.0	57.96	66.92
10.0	10.0	22.0	75.0	72.22	81.18
11.0	12.0	25.0	75.0	79.58	88.54
12.0	12.0	25.0	75.0	83.92	92.88
14.0	14.0	32.0	89.0	142.22	153.42
16.0	16.0	32.0	89.0	159.18	173.74
18.0	18.0	38.0	100.0	235.00	249.56
20.0	20.0	38.0	100.0	338.52	354.54
25.0	25.0	38.0	100.0	443.22	459.24

4 FLUTE DOUBLE END (STUB)



SIZE (mm)	SHANK DIA. (mm)	FLUTE LENGTH (mm)	OVERALL LENGTH (mm)	PRICE EACH	
				SOLID CARBIDE	TIN COATED
				SCDEMM-4S	SCDEMM-4ST
1.0	3.0	2.0	38.0	\$ 24.54	\$ 27.34
1.5	3.0	3.0	38.0	24.54	27.34
2.0	3.0	4.0	38.0	20.58	23.38
2.5	3.0	5.0	38.0	20.58	23.38
3.0	3.0	6.0	38.0	19.20	22.00
3.5	4.0	7.0	50.0	27.36	30.08
4.0	4.0	8.0	50.0	27.36	30.38
4.5	4.5	9.5	63.0	31.62	36.32
5.0	5.0	10.0	63.0	31.62	37.22
6.0	6.0	12.0	63.0	35.88	41.48
7.0	8.0	12.0	63.0	42.60	49.98
8.0	8.0	12.0	63.0	49.28	56.68
9.0	9.0	14.0	75.0	61.90	69.32
10.0	10.0	14.0	75.0	74.58	88.02
11.0	12.0	14.0	75.0	82.12	95.56
12.0	12.0	16.0	75.0	89.58	103.02

4 FLUTE DOUBLE END (STUB-BALL END)



SIZE (mm)	SHANK DIA. (mm)	FLUTE LENGTH (mm)	OVERALL LENGTH (mm)	PRICE EACH	
				SOLID CARBIDE	TIN COATED
				SCDEMM-4SB	SCDEMM-4SBT
1.0	3.0	2.0	38.0	\$ 29.48	CALL FOR PRICE
1.5	3.0	3.0	38.0	29.48	
2.0	3.0	4.0	38.0	24.76	
2.5	3.0	5.0	38.0	24.76	
3.0	3.0	6.0	38.0	23.08	
3.5	4.0	7.0	50.0	32.92	
4.0	4.0	8.0	50.0	32.92	
4.5	4.5	9.5	63.0	37.94	
5.0	5.0	10.0	63.0	37.94	
6.0	6.0	12.0	63.0	43.04	
7.0	8.0	12.0	63.0	51.10	
8.0	8.0	12.0	63.0	59.20	
9.0	9.0	14.0	75.0	74.36	
10.0	10.0	14.0	75.0	89.50	
11.0	12.0	14.0	75.0	98.56	
12.0	12.0	16.0	75.0	107.56	

TOLERANCES

Flute Dia.: + .000 - .005"
Shank Dia.: + .000 - .001"