

SOLID CARBIDE 4 FLUTE END MILLS - METRIC

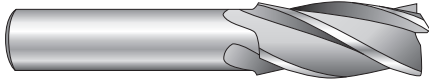
ICS USA

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	
				SUPER COBALT	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 Ball Nose Single End



SIZE mm	SHANK DIA. mm	FLUTE LENGTH mm	OVERALL LENGTH mm	PRICE EACH	
				SUPER COBALT	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	79.88	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	
				SUPER COBALT	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	30.38
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	49.58	56.68
9.0	9.0	14.0	75.0	61.92	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 Ball Nose Double End (Stub)



SIZE mm	SHANK DIA. mm	FLUTE LENGTH mm	OVERALL LENGTH mm	PRICE	
				SUPER COBALT	TiN COATED
				SCDEMM-4SB	SCDEMM-4S
1.0	3.0	2.0	38.0	29.48	29.48
1.5	3.0	3.0	38.0	29.48	29.48
2.0	3.0	4.0	38.0	24.76	24.76
2.5	3.0	5.0	38.0	24.76	24.76
3.0	3.0	6.0	38.0	23.08	23.08
3.5	4.0	7.0	50.0	32.92	32.92
4.0	4.0	8.0	50.0	32.92	32.92
4.5	4.5	9.5	63.0	37.94	37.94
5.0	5.0	10.0	63.0	37.94	37.94
6.0	6.0	12.0	63.0	43.04	43.04
7.0	8.0	12.0	63.0	51.10	51.10
8.0	8.0	12.0	63.0	59.20	59.20
9.0	9.0	14.0	75.0	74.36	74.36
10.0	10.0	14.0	75.0	89.50	89.50
11.0	12.0	14.0	75.0	98.56	98.56
12.0	12.0	16.0	75.0	107.56	107.56

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