

# SOLID CARBIDE 4 FLUTE END MILLS - METRIC

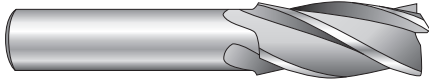
ICS USA

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	
				SOLID CARBIDE	TIN COATED
				SCEMM-4R	SCEMM-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	
				SOLID CARBIDE	TIN COATED
				SCEMM-4B	SCEMM-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	
				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	30.38
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 EACH	
				SOLID CARBIDE	TIN COATED
				SCDEMM-4SB	SCDEMM-4SBT
1.0	3.0	2.0	38.0	29.48	-
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	CALL FOR PRICE
5.0	5.0	10.0	63.0	37.94	CALL FOR PRICE
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"