

SOLID CARBIDE 2 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.

2 Flute Single End



| SIZE mm | SHANK DIA. mm | FLUTE LENGTH mm | OVERALL LENGTH mm | PRICE EACH | |
|------------|---------------------|-----------------------|-------------------------|------------------|---------------|
| | | | | SOLID CARBIDE | TiN COATED |
| | | | | SCEMM-2R | SCEMM-2T |
| 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 |

2 Flute Ball Nose Single End



| SIZE mm | SHANK DIA. mm | FLUTE LENGTH mm | OVERALL LENGTH mm | PRICE EACH | |
|------------|---------------------|-----------------------|-------------------------|------------------|---------------|
| | | | | SOLID CARBIDE | TiN COATED |
| | | | | SCEMM-2B | SCEMM-2BT |
| 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 |

2 Flute - Double End (Stub)



| SIZE mm | SHANK DIA. mm | FLUTE LENGTH mm | OVERALL LENGTH mm | PRICE EACH | |
|------------|---------------------|-----------------------|-------------------------|------------------|---------------|
| | | | | SOLID CARBIDE | TiN COATED |
| | | | | SCDEMM-2S | SCDEMM-2ST |
| 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 |

2 Flute Ball Nose Double End (Stub)



| SIZE mm | SHANK DIA. mm | FLUTE LENGTH mm | OVERALL LENGTH mm | PRICE EACH | |
|------------|---------------------|-----------------------|-------------------------|------------------|----------------|
| | | | | SOLID CARBIDE | TiN COATED |
| | | | | SCDEMM-2SB | SCDEMM-2SBT |
| 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 | - |
| 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"