

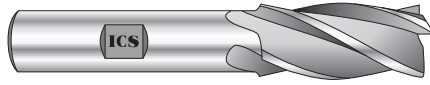
HIGH SPEED STEEL 4 FLUTE SINGLE END MILLS

ICS USA

GENERAL PURPOSE

CENTER CUTTING

WELDON SHANK



REGULAR LENGTH

**RIGHT HAND CUT
RIGHT HAND HELIX**

| SIZE | SHANK DIA. | FLUTE LENGTH | OVERALL LENGTH | PRICE EACH | |
|-------|------------|--------------|----------------|------------|------------|
| | | | | HSS | TIN COATED |
| | | | | EM-4C | EM-4CT |
| 1/8 | 3/8 | 3/8 | 2-5/16 | \$10.38 | \$16.72 |
| 3/16 | 3/8 | 1/2 | 2-3/8 | 10.38 | 16.72 |
| 1/4 | 3/8 | 5/8 | 2-7/16 | 10.38 | 16.72 |
| 5/16 | 3/8 | 3/4 | 2-1/2 | 11.32 | 17.66 |
| 3/8 | 3/8 | 3/4 | 2-1/2 | 11.32 | 17.66 |
| 7/16 | 3/8 | 1 | 2-11/16 | 13.06 | 19.40 |
| 1/2 | 3/8 | 1 | 2-11/16 | 13.06 | 19.40 |
| 1/2 | 1/2 | 1-1/4 | 3-1/4 | 13.06 | 22.96 |
| 9/16 | 1/2 | 1-3/8 | 3-3/8 | 19.58 | 29.48 |
| 5/8 | 1/2 | 1-3/8 | 3-3/8 | 21.70 | 31.60 |
| 5/8 | 5/8 | 1-5/8 | 3-3/4 | 21.70 | 32.90 |
| 11/16 | 1/2 | 1-5/8 | 3-3/4 | 23.94 | 33.84 |
| 11/16 | 5/8 | 1-5/8 | 3-5/8 | 23.94 | 35.14 |

| SIZE | SHANK DIA. | FLUTE LENGTH | OVERALL LENGTH | PRICE EACH | |
|-------|------------|--------------|----------------|------------|------------|
| | | | | HSS | TIN COATED |
| | | | | EM-4C | EM-4CT |
| 3/4 | 1/2 | 1-5/8 | 3-5/8 | \$24.88 | \$34.78 |
| 3/4 | 5/8 | 1-5/8 | 3-3/4 | 24.88 | 36.08 |
| 3/4 | 3/4 | 1-5/8 | 3-3/4 | 24.88 | 38.14 |
| 13/16 | 5/8 | 1-7/8 | 4 | 30.80 | 42.00 |
| 13/16 | 3/4 | 1-7/8 | 4-1/8 | 30.80 | 44.08 |
| 7/8 | 1/2 | 1-7/8 | 4 | 33.04 | 44.24 |
| 7/8 | 3/4 | 1-7/8 | 4-1/8 | 33.04 | 48.72 |
| 7/8 | 7/8 | 1-7/8 | 4-1/8 | 34.02 | 57.36 |
| 15/16 | 3/4 | 1-7/8 | 4-1/8 | 37.98 | 53.66 |
| 15/16 | 7/8 | 1-7/8 | 4-1/8 | 37.98 | 61.32 |
| 1 | 1/2 | 1-7/8 | 4 | 38.94 | 55.56 |
| 1 | 5/8 | 1-7/8 | 4 | 38.94 | 55.56 |
| 1 | 3/4 | 1-7/8 | 4-1/8 | 38.94 | 54.62 |
| 1 | 1 | 2 | 4-1/2 | 42.12 | 65.46 |

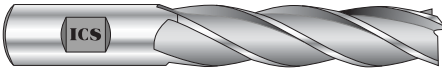
HIGH SPEED STEEL 4 FLUTE SINGLE END (LONG FLUTE) MILLS

ICS USA

GENERAL PURPOSE

CENTER CUTTING

WELDON SHANK



LONG LENGTH

**RIGHT HAND CUT
RIGHT HAND HELIX**

| SIZE | SHANK DIA. | FLUTE LENGTH | OVERALL LENGTH | PRICE EACH | |
|------|------------|--------------|----------------|------------|------------|
| | | | | HSS | TIN COATED |
| | | | | EM-4CL | EM-4CLT |
| 1/4 | 3/8 | 1-1/4 | 3-1/16 | \$12.74 | \$20.96 |
| 5/16 | 3/8 | 1-3/8 | 3-1/8 | 12.74 | 20.96 |
| 3/8 | 3/8 | 1-1/2 | 3-1/4 | 12.74 | 20.96 |
| 7/16 | 1/2 | 1-3/4 | 3-3/4 | 18.40 | 28.30 |
| 1/2 | 1/2 | 2 | 4 | 19.46 | 29.36 |
| 5/8 | 5/8 | 2-1/2 | 4-5/8 | 35.26 | 48.70 |

| SIZE | SHANK DIA. | FLUTE LENGTH | OVERALL LENGTH | PRICE EACH | |
|------|------------|--------------|----------------|------------|------------|
| | | | | HSS | TIN COATED |
| | | | | EM-4CL | EM-4CLT |
| 3/4 | 1/2 | 3 | 5-1/4 | \$35.26 | \$47.20 |
| 3/4 | 3/4 | 3 | 5-1/4 | 35.26 | 50.94 |
| 7/8 | 3/4 | 3-1/2 | 5-3/4 | 44.56 | 72.34 |
| 7/8 | 7/8 | 3-1/2 | 5-3/4 | 44.56 | 72.34 |
| 1 | 1 | 4 | 6-1/2 | 56.84 | 84.84 |

HIGH SPEED STEEL 4 FLUTE SINGLE END (EXTRA LONG FLUTE) MILLS

ICS USA

GENERAL PURPOSE

CENTER CUTTING

WELDON SHANK



EXTRA LONG LENGTH

**RIGHT HAND CUT
RIGHT HAND HELIX**

| SIZE | SHANK DIA. | FLUTE LENGTH | OVERALL LENGTH | PRICE EACH | |
|------|------------|--------------|----------------|------------|------------|
| | | | | HSS | TIN COATED |
| | | | | EM-4CX | EM-4CXT |
| 1/4 | 3/8 | 1-3/4 | 3-9/16 | \$16.24 | \$24.48 |
| 5/16 | 3/8 | 2 | 3-3/4 | 18.00 | 26.22 |
| 3/8 | 3/8 | 2-1/2 | 4-1/4 | 18.48 | 27.84 |
| 1/2 | 1/2 | 3 | 5 | 25.16 | 37.10 |
| 5/8 | 1/2 | 4 | 6-1/8 | 35.18 | 51.42 |

| SIZE | SHANK DIA. | FLUTE LENGTH | OVERALL LENGTH | PRICE EACH | |
|------|------------|--------------|----------------|------------|------------|
| | | | | HSS | TIN COATED |
| | | | | EM-4CX | EM-4CXT |
| 5/8 | 5/8 | 4 | 6-1/8 | \$35.18 | \$54.60 |
| 3/4 | 3/4 | 4 | 6-1/4 | 44.60 | 66.82 |
| 7/8 | 7/8 | 5 | 7-1/4 | 56.46 | 89.12 |
| 1 | 1 | 6 | 8-1/2 | 68.78 | 101.44 |

TOLERANCES
Flute Dia.: +.003 -.000"
Shank Dia.: +.0005 -.0005"