

# SOLID CARBIDE 3 TAPERED FLUTE END MILLS

ICS USA

SPECIAL PURPOSE

NON-CENTER CUTTING

Solid Carbide Tapered End Mills are designed with a constant spiral to prevent chatter during use and to resist side thrusts and deflection. They are used primarily for milling die and mold cavities and are sometimes referred to as Taper Degree End Mills or Tapered Milling Cutters.

## 3 Flute Single End



## 3 Flute Ball Nose Single End



RIGHT HAND CUTTING

| SHANK DIA. | TAPER ANGLE | FLUTE RADIUS | FLUTE LENGTH | OVERALL LENGTH | PRICE EACH    |            |
|------------|-------------|--------------|--------------|----------------|---------------|------------|
|            |             |              |              |                | SOLID CARBIDE | TiN COATED |
|            |             |              |              |                | SCTEM         | SCTEMT     |
| 1/4        | 1°          | 1/8          | 1-1/2        | 3              | 56.62         | 60.20      |
|            | 1-1/2°      | 1/8          | 1-1/2        | 3              | 50.90         | 54.48      |
|            | 2°          | 1/8          | 1-1/4        | 3              | 56.62         | 60.20      |
|            | 3°          | 1/8          | 1            | 3              | 50.90         | 54.48      |
|            | 5°          | 1/8          | 3/4          | 3              | 50.90         | 54.48      |
|            | 7°          | 1/8          | 1/2          | 3              | 50.90         | 54.48      |
|            | 10°         | 3/32         | 1/2          | 3              | 56.62         | 60.20      |
| 3/8        | 1°          | 3/16         | 1-3/4        | 3-1/2          | 77.76         | 83.36      |
|            | 1-1/2°      | 3/16         | 1-3/4        | 3-1/2          | 77.76         | 83.36      |
|            | 2°          | 3/16         | 1-3/4        | 3-1/2          | 77.76         | 83.36      |
|            | 3°          | 5/32         | 1-3/4        | 3-1/2          | 77.76         | 83.36      |
|            | 5°          | 1/8          | 1-1/2        | 3-1/2          | 77.76         | 83.36      |
|            | 7°          | 1/8          | 1            | 3-1/2          | 77.76         | 83.36      |
|            | 10°         | 1/8          | 3/4          | 3-1/2          | 77.76         | 83.36      |
| 1/2        | 1°          | 1/4          | 2            | 4              | 118.14        | 127.22     |
|            | 2°          | 1/4          | 2            | 4              | 118.14        | 127.22     |
|            | 3°          | 1/4          | 2            | 4              | 118.14        | 127.22     |
|            | 5°          | 1/4          | 1-1/4        | 4              | 118.14        | 127.22     |
|            | 7°          | 3/16         | 1-1/4        | 4              | 118.14        | 127.22     |
|            | 10°         | 1/8          | 1            | 4              | 118.14        | 127.22     |

| SHANK DIA. | TAPER ANGLE | FLUTE RADIUS | FLUTE LENGTH | OVERALL LENGTH | PRICE EACH    |            |
|------------|-------------|--------------|--------------|----------------|---------------|------------|
|            |             |              |              |                | SOLID CARBIDE | TiN COATED |
|            |             |              |              |                | SCTEMB        | SCTEMBT    |
| 1/4        | 1°          | .062         | 1-1/2        | 3              | 62.90         | 66.50      |
|            | 1-1/2°      | .062         | 1-1/2        | 3              | 56.54         | 60.14      |
|            | 2°          | .062         | 1-1/4        | 3              | 60.20         | 66.50      |
|            | 3°          | .062         | 1            | 3              | 56.40         | 60.14      |
|            | 5°          | .062         | 3/4          | 3              | 56.40         | 60.14      |
|            | 7°          | .062         | 1/2          | 3              | 56.40         | 60.14      |
|            | 10°         | .047         | 1/2          | 3              | 62.90         | 66.50      |
| 3/8        | 1°          | .093         | 1-3/4        | 3-1/2          | 86.42         | 92.02      |
|            | 1-1/2°      | .093         | 1-3/4        | 3-1/2          | 86.42         | 92.02      |
|            | 2°          | .093         | 1-3/4        | 3-1/2          | 86.42         | 92.02      |
|            | 3°          | .078         | 1-3/4        | 3-1/2          | 86.42         | 92.02      |
|            | 5°          | .062         | 1-1/2        | 3-1/2          | 86.42         | 92.02      |
|            | 7°          | .062         | 1            | 3-1/2          | 86.42         | 92.02      |
|            | 10°         | .062         | 3/4          | 3-1/2          | 86.42         | 92.02      |
| 1/2        | 1°          | .125         | 2            | 4              | 131.28        | 140.34     |
|            | 2°          | .125         | 2            | 4              | 131.28        | 140.34     |
|            | 3°          | .125         | 2            | 4              | 131.28        | 140.34     |
|            | 5°          | .125         | 1-1/4        | 4              | 131.28        | 140.34     |
|            | 7°          | .093         | 1-1/4        | 4              | 131.28        | 140.34     |
|            | 10°         | .062         | 1            | 4              | 131.28        | 140.34     |

TOLERANCES  
 Flute Dia.: - .001 - .002"  
 Shank Dia.: - .0001 - .0004"