

# General Application End Mills

## Single End Finishers

**Style HGA-2 • HSS, Single End, 2-Flute, Center Cutting, High-Helix**  
formerly styles 665, 666, 667

### FEATURES

|                        |                      |
|------------------------|----------------------|
| <b>ANSI SIZES</b>      | <b>HSS SUBSTRATE</b> |
| <b>GENERAL PURPOSE</b> | <b>BRIGHT</b>        |
| <b>2 FLUTE CC</b>      | <b>TiN</b>           |
| <b>37°</b>             | <b>TiCN</b>          |

### APPLICATIONS

|                      |
|----------------------|
| <b>ALUMINUM</b>      |
| <b>COPPER ALLOYS</b> |
| <b>MAGNESIUM</b>     |
| <b>BRASS</b>         |



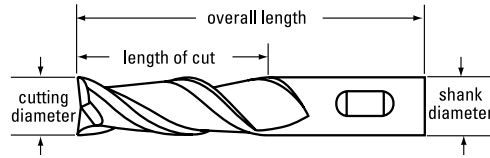
Style HGA-2 Bright



Style HGA-2 TiN-coated



Style HGA-2 TiCN-coated



| Cutting Diameter | Decimal Equiv. | Metric Equiv. | Shank Diameter |       | Length of Cut |        | Overall Length |        | No. of Flutes | Order Number |        |        |
|------------------|----------------|---------------|----------------|-------|---------------|--------|----------------|--------|---------------|--------------|--------|--------|
|                  |                |               | in             | mm    | in            | mm     | in             | mm     |               | Bright       | TiN    | TiCN   |
| 1/4              | .2500          | 6.35          | .375           | 9.53  | .625          | 15.88  | 2.437          | 61.89  | 2             | C41843       | C33476 | C33488 |
| 1/4              | .2500          | 6.35          | .375           | 9.53  | 1.250         | 31.75  | 3.063          | 77.79  | 2             | C41888       | C33500 | C33511 |
| 1/4              | .2500          | 6.35          | .375           | 9.53  | 1.750         | 44.45  | 3.563          | 90.49  | 2             | C41930       | C33524 | C33535 |
| 5/16             | .3125          | 7.94          | .375           | 9.53  | .750          | 19.05  | 2.500          | 63.50  | 2             | C41845       | C33477 | C33489 |
| 5/16             | .3125          | 7.94          | .375           | 9.53  | 1.375         | 34.93  | 3.125          | 79.38  | 2             | C41890       | C33501 | C33512 |
| 5/16             | .3125          | 7.94          | .375           | 9.53  | 2.000         | 50.80  | 3.250          | 82.55  | 2             | C41932       | C33525 | C33536 |
| 3/8              | .3750          | 9.53          | .375           | 9.53  | .750          | 19.05  | 2.500          | 63.50  | 2             | C41848       | C33478 | C33490 |
| 3/8              | .3750          | 9.53          | .375           | 9.53  | 1.500         | 38.10  | 3.250          | 82.55  | 2             | C41893       | C33502 | C33513 |
| 3/8              | .3750          | 9.53          | .375           | 9.53  | 2.500         | 63.50  | 4.250          | 107.95 | 2             | C41935       | C33526 | C33537 |
| 7/16             | .4375          | 11.11         | .375           | 9.53  | 1.000         | 25.40  | 2.688          | 68.26  | 2             | C41851       | C33479 | C33491 |
| 7/16             | .4375          | 11.11         | .500           | 12.70 | 1.750         | 44.45  | 3.250          | 82.55  | 2             | C41896       | C33503 | C33514 |
| 7/16             | .4375          | 11.11         | .375           | 9.53  | 2.750         | 69.85  | 4.500          | 114.30 | 2             | C33522       | C33527 | C33538 |
| 1/2              | .5000          | 12.70         | .500           | 12.70 | 1.250         | 31.75  | 3.250          | 82.55  | 2             | C41853       | C33480 | C33492 |
| 1/2              | .5000          | 12.70         | .500           | 12.70 | 2.000         | 50.80  | 4.000          | 101.60 | 2             | C41898       | C33504 | C33515 |
| 1/2              | .5000          | 12.70         | .500           | 12.70 | 3.000         | 76.20  | 5.000          | 127.00 | 2             | C41939       | C33528 | C33539 |
| 5/8              | .6250          | 15.88         | .875           | 22.23 | 1.625         | 41.28  | 3.250          | 82.55  | 2             | C41856       | C33481 | C33493 |
| 5/8              | .6250          | 15.88         | .875           | 22.23 | 2.500         | 63.50  | 4.625          | 117.48 | 2             | C41901       | C33505 | C33516 |
| 5/8              | .6250          | 15.88         | .875           | 22.23 | 4.000         | 101.60 | 6.125          | 155.58 | 2             | C41942       | C33529 | C33540 |
| 3/4              | .7500          | 19.05         | .750           | 19.05 | 1.625         | 41.28  | 3.875          | 98.43  | 2             | C41859       | C33482 | C33494 |
| 3/4              | .7500          | 19.05         | .750           | 19.05 | 3.000         | 76.20  | 5.250          | 133.35 | 2             | C41904       | C33506 | C33517 |
| 3/4              | .7500          | 19.05         | .750           | 19.05 | 4.000         | 101.60 | 6.250          | 158.75 | 2             | C41945       | C33530 | C33541 |
| 7/8              | .8750          | 22.23         | .875           | 22.23 | 1.875         | 47.63  | 4.125          | 104.78 | 2             | C41863       | C33483 | C33495 |
| 7/8              | .8750          | 22.23         | .875           | 22.23 | 3.500         | 88.90  | 5.750          | 146.05 | 2             | C32066       | C33507 | C33518 |
| 7/8              | .8750          | 22.23         | .875           | 22.23 | 5.000         | 127.00 | 7.250          | 184.15 | 2             | C33523       | C33531 | C33542 |
| 1                | 1.0000         | 25.40         | 1.000          | 25.40 | 2.000         | 50.80  | 4.500          | 114.30 | 2             | C41867       | C33484 | C33496 |
| 1                | 1.0000         | 25.40         | 1.000          | 25.40 | 4.000         | 101.60 | 6.500          | 165.10 | 2             | C41911       | C33508 | C33519 |
| 1                | 1.0000         | 25.40         | 1.000          | 25.40 | 6.000         | 152.40 | 8.500          | 215.90 | 2             | C41952       | C33532 | C33543 |
| 1-1/4            | 1.2500         | 31.75         | 1.250          | 31.75 | 2.000         | 50.80  | 4.500          | 114.30 | 2             | C41871       | C33485 | C33497 |
| 1-1/4            | 1.2500         | 31.75         | 1.250          | 31.75 | 4.000         | 101.60 | 6.500          | 165.10 | 2             | -            | C33509 | C33520 |
| 1-1/4            | 1.2500         | 31.75         | 1.250          | 31.75 | 6.000         | 152.40 | 8.500          | 215.90 | 2             | C41956       | C33533 | C33544 |
| 1-1/2            | 1.5000         | 38.10         | 1.250          | 31.75 | 2.000         | 50.80  | 4.500          | 114.30 | 2             | C41877       | C33486 | C33498 |
| 1-1/2            | 1.5000         | 38.10         | 1.250          | 31.75 | 4.000         | 101.60 | 6.500          | 165.10 | 2             | C41921       | C33510 | C33521 |
| 1-1/2            | 1.5000         | 38.10         | 1.250          | 31.75 | 8.000         | 203.20 | 10.500         | 266.70 | 2             | C41962       | C33534 | C33545 |
| 2                | 2.0000         | 50.80         | 1.250          | 31.75 | 2.000         | 50.80  | 4.500          | 114.30 | 2             | C41882       | C33487 | C33499 |
| 2                | 2.0000         | 50.80         | 1.250          | 31.75 | 4.000         | 101.60 | 6.500          | 165.10 | 2             | C41925       | C32067 | C32068 |

DRILLING

HOLE FINISHING

THREADING

MILLING

OTHER TOOLS