

General Application End Mills

Single End Finishers


Style HGC-2B • Cobalt, Single End, 2-Flute, Center Cutting, Ball Nose
formerly style 559

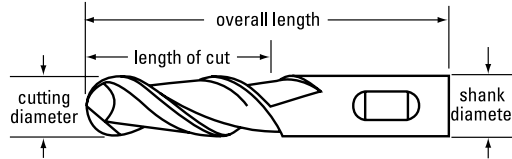
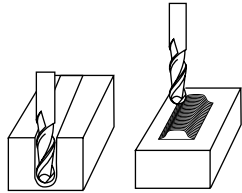
FEATURES

| | |
|-----------------|----------------------|
| ANSI SIZES | M42 COBALT SUBSTRATE |
| GENERAL PURPOSE | BRIGHT |
| 2 FLUTE BALL CC | TiN |
| 30° | TiCN |

APPLICATIONS

| |
|-----------------|
| TITANIUM ALLOYS |
| NICKEL ALLOYS |
| COBALT ALLOYS |
| STAINLESS STEEL |

 High red hardness for high heat conditions.



Style HGC-2B Bright

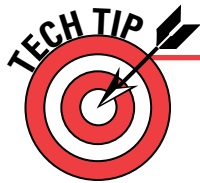


Style HGC-2B TiN-coated



Style HGC-2B 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 |
| 1/8 | .1250 | 3.18 | .375 | 9.53 | .375 | 9.53 | 2.313 | 58.74 | 2 | C42643 | C32737 | C32749 |
| 3/16 | .1875 | 4.76 | .375 | 9.53 | .500 | 12.70 | 2.375 | 60.33 | 2 | C42645 | C32738 | C32750 |
| 1/4 | .2500 | 6.35 | .375 | 9.53 | .625 | 15.88 | 2.438 | 61.91 | 2 | C42648 | C32739 | C32751 |
| 5/16 | .3125 | 7.94 | .375 | 9.53 | .750 | 19.05 | 2.500 | 63.50 | 2 | C42650 | C32740 | C32752 |
| 3/8 | .3750 | 9.53 | .375 | 9.53 | .750 | 19.05 | 2.500 | 63.50 | 2 | C42653 | C32741 | C32753 |
| 1/2 | .5000 | 12.70 | .500 | 12.70 | 1.000 | 25.40 | 3.250 | 82.55 | 2 | C42657 | C32742 | C32754 |
| 5/8 | .6250 | 15.88 | .625 | 15.88 | 1.375 | 34.93 | 3.250 | 82.55 | 2 | C42660 | C32743 | C32755 |
| 3/4 | .7500 | 19.05 | .750 | 19.05 | 1.625 | 41.28 | 3.875 | 98.43 | 2 | C42663 | C32744 | C32756 |
| 7/8 | .8750 | 22.23 | .875 | 22.23 | 2.000 | 50.80 | 4.250 | 107.95 | 2 | C32736 | C32745 | C32757 |
| 1 | 1.0000 | 25.40 | 1.000 | 25.40 | 2.250 | 57.15 | 4.500 | 114.30 | 2 | C42670 | C32746 | C32758 |
| 1-1/4 | 1.2500 | 31.75 | 1.250 | 31.75 | 2.500 | 63.50 | 4.500 | 114.30 | 2 | C42674 | C32747 | C32759 |
| 1-1/2 | 1.5000 | 38.10 | 1.250 | 31.75 | 2.500 | 63.50 | 5.000 | 127.00 | 2 | C42680 | C32748 | C32760 |



Two-Flute versus Multi-Flute End Mills

- Two-flute end mills
 - have greater chip ejection capacity
 - are ideal for slotting
- Multi-flute end mills
 - deliver a smoother finish
 - are better for peripheral cuts
 - have a heavy-duty cross section for better rigidity