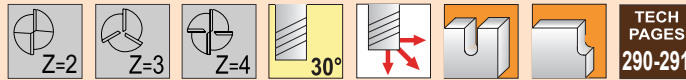


TOLERANCES

| | |
|--------------------|-----------------------------------|
| <i>d1</i> | +0.000" -0.002" (+0.000 -0.050mm) |
| <i>d2</i> | h6 |
| <i>ball radius</i> | +0.000" -0.001" (+0.000 -0.025mm) |

Series 320MC, 323MC, 330MC

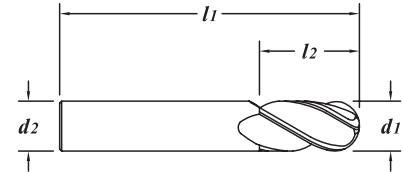


GENERAL PURPOSE
END MILLS

Standard Length - Ball End

TiCN Coating

- Solid submicron grain carbide end mill - center cutting
- Improved abrasion resistance and lubricity
- Extremely versatile
- Bright Finish - page 240
- TiN Coating - page 242
- TiALN Coating - page 244
- Extended length - page 261



| (320MC) 2 Flute EDP# | (323MC) 3 Flute EDP# | (330MC) 4 Flute EDP# | <i>d1</i> † | | <i>d2</i> Shank Diameter | <i>l1</i> Overall Length | <i>l2</i> Flute Length | LIST PRICE | |
|----------------------------|----------------------------|----------------------------|-------------|--------|--------------------------------|--------------------------------|------------------------------|------------|--------|
| | | | Decimal | Metric | | | | | |
| 16014 | 17014 | 18014 | .0312 | 1/32" | 0.792 | 1/8" | 1-1/2" | 3/32" | 15.70 |
| 16024 | 17024 | 18024 | .0469 | 3/64" | 1.191 | 1/8" | 1-1/2" | 1/8" | 15.70 |
| 16034 | 17034 | 18034 | .0625 | 1/16" | 1.588 | 1/8" | 1-1/2" | 1/4" | 14.95 |
| 16044 | 17044 | 18044 | .0781 | 5/64" | 1.984 | 1/8" | 1-1/2" | 1/4" | 14.95 |
| 16054 | 17054 | 18054 | .0938 | 3/32" | 2.383 | 1/8" | 1-1/2" | 3/8" | 14.39 |
| 16064 | 17064 | 18064 | .1094 | 7/64" | 2.779 | 1/8" | 1-1/2" | 3/8" | 14.39 |
| 16074 | 17074 | 18074 | .1250 | 1/8" | 3.175 | 1/8" | 1-1/2" | 1/2" | 13.27 |
| 16084 | 17084 | 18084 | .1406 | 9/64" | 3.571 | 3/16" | 2" | 9/16" | 18.43 |
| 16094 | 17094 | 18094 | .1562 | 5/32" | 3.967 | 3/16" | 2" | 9/16" | 18.43 |
| 16104 | - | 18104 | .1719 | 11/64" | 4.366 | 3/16" | 2" | 9/16" | 18.43 |
| 16114 | 17114 | 18114 | .1875 | 3/16" | 4.763 | 3/16" | 2" | 5/8" | 16.76 |
| 16124 | 17124 | 18124 | .2031 | 13/64" | 5.159 | 1/4" | 2-1/2" | 5/8" | 23.36 |
| 16134 | 17134 | 18134 | .2188 | 7/32" | 5.558 | 1/4" | 2-1/2" | 5/8" | 23.36 |
| 16144 | 17144 | 18144 | .2344 | 15/64" | 5.954 | 1/4" | 2-1/2" | 3/4" | 23.36 |
| 16154 | 17154 | 18154 | .2500 | 1/4" | 6.350 | 1/4" | 2-1/2" | 3/4" | 22.60 |
| - | 17164 | 18164 | .2656 | 17/64" | 6.746 | 5/16" | 2-1/2" | 7/8" | 34.32 |
| 16174 | 17174 | 18174 | .2812 | 9/32" | 7.142 | 5/16" | 2-1/2" | 7/8" | 34.32 |
| - | - | 18184 | .2969 | 19/64" | 7.541 | 5/16" | 2-1/2" | 7/8" | 34.32 |
| 16194 | 17194 | 18194 | .3125 | 5/16" | 7.938 | 5/16" | 2-1/2" | 7/8" | 29.78 |
| 16204 | - | - | .3281 | 21/64" | 8.334 | 3/8" | 2-1/2" | 7/8" | 39.90 |
| - | - | 18214 | .3438 | 11/32" | 8.733 | 3/8" | 2-1/2" | 7/8" | 39.90 |
| - | - | 18224 | .3594 | 23/64" | 9.129 | 3/8" | 2-1/2" | 7/8" | 39.90 |
| 16234 | 17234 | 18234 | .3750 | 3/8" | 9.525 | 3/8" | 2-1/2" | 7/8" | 35.04 |
| 16244 | - | - | .3906 | 25/64" | 9.921 | 7/16" | 2-3/4" | 7/8" | 48.88 |
| 16254 | 17254 | 18254 | .4062 | 13/32" | 10.317 | 7/16" | 2-3/4" | 7/8" | 48.88 |
| 16274 | 17274 | 18274 | .4375 | 7/16" | 11.113 | 7/16" | 2-3/4" | 1" | 42.95 |
| - | - | 18284 | .4531 | 29/64" | 11.509 | 1/2" | 3" | 1" | 66.89 |
| - | 17294 | 18294 | .4688 | 15/32" | 11.908 | 1/2" | 3" | 1" | 66.89 |
| 16304 | - | 18304 | .4844 | 31/64" | 12.304 | 1/2" | 3" | 1" | 66.89 |
| 16314 | 17314 | 18314 | .5000 | 1/2" | 12.700 | 1/2" | 3" | 1" | 61.21 |
| 16324 | 17324 | 18324 | .5625 | 9/16" | 14.288 | 9/16" | 3-1/2" | 1-1/4" | 89.85 |
| 16334 | 17334 | 18334 | .6250 | 5/8" | 15.875 | 5/8" | 3-1/2" | 1-1/4" | 98.55 |
| 16354 | 17354 | 18354 | .7500 | 3/4" | 19.050 | 3/4" | 4" | 1-1/2" | 141.25 |
| 16364 | 17364 | 18364 | .8750 | 7/8" | 22.225 | 7/8" | 4" | 1-1/2" | 225.01 |
| 16374 | - | 18374 | 1.000 | 1" | 25.400 | 1" | 4" | 1-1/2" | 242.01 |

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MATERIAL HARDNESS (Rc)

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