

End Mills



Micrograin Solid Carbide – Uncoated & TiAlN-Futura Coated – 2 Flute – Ball Nose



- Suitable for cutting hardened and high alloy steels, steel casting, chill casting, malleable cast iron, CrNi-steels, brass, copper, aluminum with a high percentage of silicon and abrasive plastics

Tolerance: 0/-0.0012

Long Length



Extra Long Length



| Cutter Diameter (Inch) | Shank Diameter (Inch) | Length of Cut (Inch) | Overall Length (Inch) | Uncoated | TiAlN-Futura Coated |
|------------------------|-----------------------|----------------------|-----------------------|----------|---------------------|
| | | | | Code | Code |
| 1/8 | 1/8 | 3/4 | 2-1/4 | 932633 | 934903 |
| 3/16 | 3/16 | 3/4 | 2-1/4 | 932636 | 934591 |
| 1/4 | 1/4 | 1-1/8 | 3 | 932639 | 934592 |
| 5/16 | 5/16 | 1-1/8 | 3 | 932642 | - |
| 3/8 | 3/8 | 1-1/8 | 3 | 932645 | 934594 |
| 7/16 | 7/16 | 2 | 4 | 932648 | 934595 |
| 1/2 | 1/2 | 2 | 4 | 932651 | 934905 |
| 5/8 | 5/8 | 2-1/4 | 5 | 932654 | 934597 |
| 3/4 | 3/4 | 2-1/4 | 5 | 932657 | 934598 |
| 1 | 1 | 2-1/4 | 5 | 932660 | 934906 |

| Cutter Diameter (Inch) | Shank Diameter (Inch) | Length of Cut (Inch) | Overall Length (Inch) | Uncoated | TiAlN-Futura Coated |
|------------------------|-----------------------|----------------------|-----------------------|----------|---------------------|
| | | | | Code | Code |
| 1/8 | 1/8 | 1 | 3 | 932781 | 934914 |
| 3/16 | 3/16 | 1-1/8 | 3 | 932784 | 934631 |
| 3/16 | 3/16 | 1 | 4 | - | 935426 |
| 1/4 | 1/4 | 1-1/2 | 4 | 932787 | 934632 |
| 1/4 | 1/4 | 1-1/2 | 6 | - | 935417 |
| 5/16 | 5/16 | 1-5/8 | 4 | 932790 | 934915 |
| 3/8 | 3/8 | 1-3/4 | 4 | 932793 | 934634 |
| 3/8 | 3/8 | 1-1/2 | 6 | - | 935420 |
| 7/16 | 7/16 | 3 | 6 | 932796 | 934635 |
| 1/2 | 1/2 | 1-1/2 | 6 | - | 935423 |
| 1/2 | 1/2 | 3 | 6 | 932799 | 934636 |
| 5/8 | 5/8 | 3 | 6 | 932802 | 934637 |
| 3/4 | 3/4 | 3 | 6 | 932805 | 934638 |
| 1 | 1 | 3 | 6 | 932808 | 934639 |

End Mills



Micrograin Solid Carbide – Uncoated & TiAlN-Futura Coated – 3 & 5 Flute – 45° Helix



Tolerance: 0/-0.0012

3 Flute – Regular Length



5 Flute – Regular Length



- Designed to machine stainless steel, inconel, titanium and other hard to machine materials
- The 3 flute design gives high stability and allows good chip removal in plunging and slotting operations
- The normal rake angle and 45° medium helix allows an extremely wide range of application

- Designed to machine stainless steels, inconels, and other alloys
- 5 flute and 45° medium helix allow harmonic balance and smooth cutting

| Cutter Diameter (Inch) | Shank Diameter (Inch) | Shank Style | Length of Cut (Inch) | Overall Length (Inch) | Uncoated | TiAlN-Futura Coated |
|------------------------|-----------------------|-------------|----------------------|-----------------------|----------|---------------------|
| | | | | | Code | Code |
| 1/8 | 1/8 | Plain | 3/8 | 1-1/2 | 935237 | 935864 |
| 3/16 | 3/16 | Plain | 9/16 | 2 | 935240 | 935867 |
| 1/4 | 1/4 | Plain | 3/4 | 2-1/2 | 935243 | 935870 |
| 5/16 | 5/16 | Plain | 13/16 | 2-1/2 | 935246 | 935873 |
| 3/8 | 3/8 | Weldon | 7/8 | 2-1/2 | 935249 | 935876 |
| 1/2 | 1/2 | Weldon | 1 | 3 | 935252 | 935879 |
| 9/16 | 9/16 | Weldon | 1-1/4 | 3-1/2 | 935255 | 935882 |
| 5/8 | 5/8 | Weldon | 1-1/4 | 3-1/2 | 935258 | 935885 |
| 3/4 | 3/4 | Weldon | 1-1/2 | 4 | 935261 | 935888 |
| 1 | 1 | Weldon | 1-1/2 | 4 | 935264 | 935891 |

| Cutter Diameter (Inch) | Shank Diameter (Inch) | Shank Style | Length of Cut (Inch) | Overall Length (Inch) | Uncoated | TiAlN-Futura Coated |
|------------------------|-----------------------|-------------|----------------------|-----------------------|----------|---------------------|
| | | | | | Code | Code |
| 1/8 | 1/8 | Plain | 1/2 | 1-1/2 | 935081 | 935708 |
| 5/32 | 3/16 | Plain | 9/16 | 2 | 935084 | 935711 |
| 3/16 | 3/16 | Plain | 9/16 | 2 | 935087 | 935714 |
| 7/32 | 1/4 | Plain | 3/4 | 2-1/2 | 935090 | 935717 |
| 1/4 | 1/4 | Plain | 3/4 | 2-1/2 | 935093 | 935720 |
| 5/16 | 5/16 | Plain | 13/16 | 2-1/2 | 935096 | 935723 |
| 3/8 | 3/8 | Plain | 1 | 2-1/2 | 935099 | 935726 |
| 7/16 | 7/16 | Plain | 1 | 2-3/4 | 935102 | 935729 |
| 1/2 | 1/2 | Plain | 1-1/4 | 3 | 935105 | 935732 |
| 5/8 | 5/8 | Plain | 1-5/8 | 3-1/2 | 935108 | 935735 |
| 3/4 | 3/4 | Plain | 1-5/8 | 4 | 935111 | 935738 |
| 7/8 | 7/8 | Plain | 2 | 4 | 935114 | 935741 |
| 1 | 1 | Plain | 2 | 4 | 935117 | 935744 |

END MILLS & ROUGHERS