

COBALT ROUGHING END MILLS

GROUND FROM SOLID • M42 8% COBALT • CENTER CUTTING



| Size (In) | Shank Dia. | Flute Length | OAL | Flute | Uncoated | | Tin Coated | |
|-----------|------------|--------------|--------|-------|------------|----------|------------|----------|
| | | | | | Item# | Price(F) | Item# | Price(F) |
| 1/4 | 3/8 | 5/8 | 2-7/16 | 3 | 8002-5708 | 8.86 | 8002-6708 | 11.96 |
| 1/4 | 3/8 | 5/8 | 2-7/16 | 4 | 8002-5710 | 13.28 | ----- | ----- |
| 5/16 | 3/8 | 3/4 | 2-1/2 | 4 | 8002-5716 | 8.78 | ----- | ----- |
| 3/8 | 3/8 | 3/4 | 2-1/2 | 4 | 8002-5721 | 10.40 | 8002-6721 | 13.52 |
| 3/8 | 3/8 | 1-1/2 | 3-1/4 | 4 | 8002-5727 | 17.25 | ----- | ----- |
| 1/2 | 1/2 | 1-1/4 | 3-1/4 | 4 | 8002-5733 | 18.49 | 8002-6733 | 20.78 |
| 1/2 | 1/2 | 2 | 4 | 4 | 8002-5736 | 22.76 | ----- | ----- |
| 5/8 | 5/8 | 1-5/8 | 3-3/4 | 4 | 8002-5748 | 25.55 | 8002-6748 | 28.86 |
| 5/8 | 5/8 | 2-1/2 | 4-5/8 | 4 | 8002-5754* | 29.64 | ----- | ----- |
| 3/4 | 3/4 | 1-5/8 | 3-3/4 | 4 | 8002-5766 | 30.11 | ----- | ----- |
| 3/4 | 3/4 | 1-5/8 | 3-7/8 | 4 | 8002-5770 | 31.15 | 8002-6770 | 34.84 |
| 3/4 | 3/4 | 3 | 5-1/4 | 4 | 8002-5775 | 36.40 | ----- | ----- |
| 1 | 3/4 | 1-1/2 | 3-3/8 | 5 | 8002-5794 | 44.77 | ----- | ----- |
| 1 | 1 | 2 | 4-1/2 | 5 | 8002-5802 | 51.11 | 8002-6802 | 56.42 |
| 1 | 1 | 3 | 5-1/2 | 5 | 8002-5805 | 61.06 | ----- | ----- |

M42 COBALT ROUGHING END MILLS-FINE PITCH

GROUND FROM SOLID • M42 8% COBALT • CENTER CUTTING

- Recommended for high production milling in difficult-to-machine materials such as inconel, hasteloy, titanium alloys and other materials up to RC 40
- The pressure of the cut is distributed over many teeth.



| Size (In) | Shank Dia. | Flute Length | OAL | Flute | Item# | Price (F) |
|-----------|------------|--------------|---------|-------|------------|-----------|
| 3/16 | 3/8" | 1/2 | 2-3/8 | 4 | 5823-0187 | 10.89 |
| 1/4 | 3/8 | 5/8 | 2-7/16 | 4 | 5823-0250 | 10.89 |
| 1/4 | 3/8 | 1-1/4 | 3-1/16 | 4 | 5823-0251 | 14.29 |
| 5/16 | 3/8 | 3/4 | 2-1/2 | 4 | 5823-0312 | 10.89 |
| 5/16 | 3/8 | 1-3/8 | 3-1/8 | 4 | 5823-0313 | 14.29 |
| 3/8 | 3/8 | 3/4 | 2-1/2" | 4 | 5823-0375 | 10.89 |
| 3/8 | 3/8 | 1-1/2 | 3-1/4 | 4 | 5823-0376 | 14.29 |
| 7/16 | 3/8 | 1 | 2-11/16 | 4 | 5823-0437 | 14.29 |
| 1/2 | 1/2 | 1-1/4 | 3-1/4 | 4 | 5823-0500 | 19.24 |
| 1/2 | 1/2 | 2 | 4 | 4 | 5823-0501 | 20.54 |
| 1/2 | 1/2 | 3 | 5 | 4 | 5823-0502 | 26.00 |
| 9/16 | 1/2 | 1-3/8 | 3-3/8 | 4 | 5823-0562 | 20.53 |
| 5/8 | 5/8 | 1-5/8 | 3-3/4 | 4 | 5823-0625 | 23.99 |
| 5/8 | 5/8 | 2-1/2 | 4-5/8 | 4 | 5823-0626 | 28.92 |
| 3/4 | 3/4 | 3/4 | 2/7/8 | 4 | 5823-0750 | 25.77 |
| 3/4 | 3/4 | 1-5/8 | 3-3/4 | 4 | 5823-0751 | 29.83 |
| 3/4 | 3/4 | 3 | 5-1/4 | 4 | 5823-0752 | 46.80 |
| 3/4 | 5/8 | 1-5/8 | 3-3/4 | 4 | 5823-0753 | 33.32 |
| 7/8 | 3/4 | 1-7/8 | 4-1/8 | 5 | 5823-0875 | 48.64 |
| 7/8 | 3/4 | 3-1/2 | 5-5/8 | 5 | 5823-0876 | 66.99 |
| 7/8 | 7/8 | 1-7/8 | 4-1/8 | 5 | 5823-0877* | 48.64 |
| 7/8 | 7/8 | 3-1/2 | 5-3/4 | 5 | 5823-0878 | 66.99 |
| 1 | 1 | 2 | 4-1/2 | 5 | 5823-1000 | 50.51 |
| 1 | 1 | 3 | 5-1/2 | 5 | 5823-1001 | 66.99 |
| 1 | 1 | 4 | 6-1/2 | 5 | 5823-1002 | 78.53 |
| 1-1/8 | 1 | 2 | 4-1/2 | 6 | 5823-1125* | 72.91 |
| 1-1/4 | 1-1/4 | 2 | 4-1/2 | 6 | 5823-1250 | 79.50 |
| 1-1/4 | 1-1/4 | 3 | 5-1/2 | 6 | 5823-1251 | 92.85 |
| 1-1/4 | 1-1/4 | 4 | 6-1/2 | 6 | 5823-1252 | 124.46 |
| 1-1/2 | 1-1/4 | 2 | 4-1/2 | 6 | 5823-1500 | 107.61 |
| 1-1/2 | 1-1/4 | 3 | 5-1/2 | 6 | 5823-1501 | 158.68 |
| 1-1/2 | 1-1/4 | 4 | 6-1/2 | 6 | 5823-1502* | 176.78 |
| 1-1/2 | 1-1/4 | 5 | 7-1/2 | 6 | 5823-1503 | 204.30 |
| 1-3/4 | 1-1/4 | 2 | 4-1/2 | 6 | 5823-1750* | 183.33 |
| 1-3/4 | 1-1/4 | 4 | 6-1/2 | 6 | 5823-1751* | 216.50 |
| 2 | 1-1/4 | 2 | 4-1/2 | 8 | 5823-2000 | 178.12 |
| 2 | 1-1/4 | 4 | 6-1/2 | 8 | 5823-2001* | 313.53 |
| 2 | 2 | 2 | 5-3/4 | 8 | 5823-2002 | 300.08 |
| 2 | 2 | 4 | 7-3/4 | 8 | 5823-2003 | 420.51 |

HSS T-SLOT CUTTERS

- High speed steel.
- Rugged design with free cutting features.
- Cutters have positive radial rake, right and left hand spiral with alternate side cutting teeth for maximum chip clearance.



HIGH SPEED STEEL

| Bolt Size | Cutter Dia. | Cutter Width | Neck Dia. | Shank Dia. | Undercut Length | OAL | Tooth | Item# | Price(F) |
|-----------|-------------|--------------|-----------|------------|-----------------|---------|-------|-----------|----------|
| 1/4 | 9/16 | 15/64 | 17/64 | 1/2 | 35/64 | 2-19/32 | 8 | 2006-0161 | 21.57 |
| 5/16 | 21/32 | 17/64 | 21/64 | 1/2 | 39/64 | 2-11/16 | 8 | 2006-0163 | 22.89 |
| 3/8 | 25/32 | 21/64 | 13/32 | 3/4 | 3/4 | 3-1/4 | 8 | 2006-0165 | 33.45 |
| 1/2 | 31/32 | 25/64 | 17/32 | 3/4 | 3/4 | 3-7/16 | 8 | 2006-0167 | 37.77 |
| 5/8 | 1-1/4 | 31/64 | 21/32 | 1 | 1-9/64 | 3-15/16 | 10 | 2006-0169 | 52.05 |
| 3/4 | 1-15/32 | 5/8 | 25/32 | 1 | 1-1/2 | 4-7/16 | 10 | 2006-0171 | 60.84 |
| 1 | 1-27/32 | 53/64 | 1-1/32 | 1-1/4 | 1-43/64 | 4-13/16 | 10 | 2006-0173 | 98.58 |
| 1-1/4 | 2-7/32 | 1-3/32 | 1-9/32 | 1-1/4 | 1-31/32 | 5-3/8 | 12 | 2006-0175 | 140.58 |
| 1-1/2 | 2-21/32 | 1-11/32 | 1-17/32 | 1-1/4 | 2-1/8 | 5-29/32 | 12 | 2006-0177 | 178.47 |

MULTI-USE SOLID CARBIDE SINGLE END DRILL POINT MILLS

2 OR 4 FLUTE • 90° POINT • SUBMICRON GRAIN CARBIDE



While Supplies Last!

5 TOOLS IN 1-for slotting, NC milling, profile milling and chamfering (internally & external)

- AlTiN coating is beneficial in wet, semi-dry to dry cutting of most steels and highly abrasive materials. Provides good thermal stability for increased speeds and feeds that offers excellent heat resistance, good lubricity, better finishes and prolongs tool life.

| Diameter (In) Mill | Shank | Flute (In) Length | OAL (In) | 2-Flute | | | | 4-Flute | | | |
|--------------------|-------|-------------------|----------|-----------|--------------------|------------------------|-------|--------------------|------------------------|-------|--------------------|
| | | | | Item# | Uncoated Price (E) | AlTiN Coated Price (E) | Item# | Uncoated Price (E) | AlTiN Coated Price (E) | Item# | Uncoated Price (E) |
| 1/8 | 1/8 | 1/2 | 1-1/2 | ----- | ----- | ----- | ----- | ----- | 5815-1250 | 10.60 | ----- |
| 3/16 | 3/16 | 5/8 | 2 | 5812-1875 | 12.29 | 5814-1875 | 14.84 | ----- | ----- | ----- | ----- |
| 1/4 | 1/4 | 3/4 | 2-1/2 | ----- | ----- | ----- | ----- | ----- | 5815-2500 | 20.41 | ----- |
| 5/16 | 5/16 | 13/16 | 2-1/2 | 5812-3125 | 19.61 | 5814-3125 | 26.50 | ----- | ----- | ----- | ----- |
| 3/8 | 3/8 | 1 | 2-1/2 | 5812-3750 | 24.38 | 5814-3750 | 29.50 | 5813-3750 | 23.00 | ----- | ----- |