

Carbide Finish End Mills			
Size	2-4 Flute	5-8 Flute	Excessive Damage
1/8 - 3/8	\$6.00	\$8.00	\$1.50
1/2	\$8.00	\$10.00	\$2.50
5/8	\$10.00	\$12.00	\$3.50
3/4	\$12.00	\$14.00	\$4.00
7/8	\$14.00	\$16.00	\$4.50
1	\$16.00	\$18.00	\$5.00

Carbide Rougher End Mills			
Size	2-4 Flute	5-8 Flute	Excessive Damage
1/8 - 3/8	\$6.75	\$8.25	\$1.50
1/2	\$9.00	\$11.00	\$2.50
5/8	\$11.25	\$13.75	\$3.50
3/4	\$13.50	\$16.50	\$4.00
7/8	\$15.75	\$19.25	\$4.50
1	\$18.00	\$22.00	\$5.00

HSS / Cobalt Finish End Mills			
Size	2-4 Flute	5-8 Flute	Excessive Damage
1/8 - 1/2	\$4.00	\$5.00	\$1.00
5/8	\$5.00	\$6.25	\$1.50
3/4	\$6.00	\$7.50	\$2.00
7/8	\$7.00	\$8.75	\$3.00
1	\$8.00	\$10.00	\$5.00
1-1/4	\$10.00	\$12.50	\$7.00

HSS / Cobalt Rougher End Mills			
Size	2-4 Flute	5-8 Flute	Excessive Damage
1/8 - 1/2	\$5.00	\$7.00	\$1.00
5/8	\$6.25	\$8.75	\$1.50
3/4	\$7.50	\$10.50	\$2.00
7/8	\$8.75	\$12.25	\$3.00
1	\$10.00	\$14.00	\$5.00
1-1/4	\$12.50	\$17.50	\$7.00

OD Only x .75
End Only x .75

Long x 1.2
Extra Long x 1.4

Double End x 2
Over 8 Flute = Quote

Flute polish is included in standard regrind.

Radius, chamfer, and ball nose are quoted per application.

Coating is available upon request.

Excessive Damage Charge

This charge applies to tools that require the end face to be cut off due to damage and/or additional flute grinding, due to deep flute chips.

Carbide Drills		
Size	Sharpen	Cutoff
1/4	\$5.25	\$2.50
3/8	\$6.75	\$3.75
1/2	\$8.50	\$5.00
5/8	\$11.00	\$6.25
3/4	\$14.50	\$7.50
1	\$20.00	\$10.00

HSS / Cobalt Drills			
Size	Conven.	Split	Cutoff
3/8	\$1.25	\$1.50	---
1/2	\$1.50	\$2.00	\$1.00
3/4	\$3.50	\$4.50	\$2.00
1	\$5.75	\$7.00	\$3.00
1-1/4	\$7.50	\$9.00	\$7.50
1-1/2	\$9.00	\$10.75	\$9.00

All carbide drills are CNC sharpened. Drill sharpening capacity is up to 3-1/8 inch.
Coating is available upon request.

Countersinks				
Size	HSS		Carbide	
	Single	6 Flute	Single	6 Flute
1/2	\$4.00	\$7.00	\$8.00	\$12.00
3/4	\$5.25	\$8.25	\$10.50	\$15.00
1	\$6.50	\$9.75	\$13.00	\$18.00
1-1/2	\$9.00	\$12.50	\$18.00	\$24.00
2	\$11.50	\$15.00	\$23.00	\$27.00

Drill Mills		
Size	HSS	Carbide
1/4	\$3.00	\$3.50
3/8	\$3.00	\$6.00
1/2	\$4.75	\$9.50
5/8	\$5.25	\$12.00
3/4	\$6.50	\$14.50
1	\$10.00	\$15.00

HSS Spot Drills	
Size	Sharpen
3/8	\$3.00
1/2	\$4.25
5/8	\$6.00
3/4	\$8.50
1	\$14.50

Other Tool & Cutter Sharpening Services

Dovetail Cutters • Keyway Cutters • Milling Cutters
Dead Centers • Live Centers • Step Drills
Tapered End Mills • Shell Mills • Reamers
Scribe Tools • Slitting Saws • Taps

Quoting Available Upon Request

Other Information

Standard turn-around time is two weeks.

Rush service available.

Gruschow Grinding, LLC reserves the right to alter or change pricing upon visual inspection of each tool.

Additional Services Available

Tool Coating

PVD coating has quickly become an industry standard and we are pleased to offer this service to our customers. Coating not only extends the life of a tool, but it also enhances performance. We offer the following coating options: TiN, TiCN, TiAlN, AlTiN, ZrN, and several other high performance coatings.

Custom Tooling

We welcome the opportunity to design and/or quote your custom tooling needs. We have the ability, knowledge, and expertise to create a custom "job-specific" tool, from carbide/HSS blank or by modifying a standard tool. The tool can be designed by your engineering staff or ours.

Manufacturing

Gruschow Grinding offers manufacturing of end mills, drills, and drill mills; carbide and HSS. New tools can be coated to suit your needs. Please contact our office for pricing details and further information.