



**L. T. D. CUTTING INNOVATIONS, LLC**  
 2821 S. 35<sup>TH</sup> Street, Suite D3

PHONE:602-474-6063

FAX :602-437-0560

EMAIL: SALES@LTD CUTTING INNOVATIONS.COM

## CARBIDE TOOL SERVICE

### Single End Complete Sharpening

Tool Diameter	O.D. Grind 1-4 Flute	O.D. Grind 5+ Flute	Rougher Flute Grind 1- 4 Flute	Rougher Flute Grind 5+ Flute	Cut Off & Re-End 1-4 Flute	Cut Off & Re-End 5+ Flute
1/4- 1/2"	\$11.66	\$16.20	\$13.37	-	\$14.80	\$17.50
9/16" - 3/4"	\$16.32	\$20.60	\$16.47	\$22.13	\$18.25	\$21.50
13/16" x 1"	\$25.27	\$30.84	\$18.55	\$29.81	\$26.75	\$31.75
1-1/16" x 1-1/2"	\$35.52	\$39.85	\$38.66	\$60.50	\$36.95	\$40.35
1-9/16" - 2"	\$41.86	\$50.62	\$55.61	\$90.80	\$42.76	\$51.25

\* O.D. GRIND & ROUGHER COST INCLUDES TOUCHING OFF ENDS. ON RARE OCCASIONS WHEN NEW END IS NECESSARY ADDITION COST WILL BE INCLUDED

### End Only Sharpening

Tool Diameter	OD Grind 1-4 Flute	OD Grind 5+ Flute
1/4" x 1/2"	\$9.72	\$13.61
9/16" - 3/4"	\$12.96	\$17.75
13/16" - 1"	\$19.36	\$24.35
1-1/16" - 1-1/16"	\$25.20	\$32.08
1-9/16" - 2"	\$33.62	\$42.12

### Double End Complete Sharpening

Tool Diameter	OD Grind 1 - 4 Flute	OD Grind 5+ Flute
1/4" - 1/2"	\$21.30	\$29.10

**ASK ABOUT NEW TOOLING OR VISIT**

<http://www.ltdcuttinginnovations.com/new-tools.html>

### ADDITIONAL SERVICES AND COST:

Shank Reduction	\$5.35 per 1/4" increment
Radius	add \$2.30 per flute
Ball End	add \$2.50 per flute
Chamfer	add \$2.00 per flute
Over 3" LOC & 2" Shank	add 20% to base price
2" Shank Tools	Double base price

[www.ltdcuttinginnovations.com](http://www.ltdcuttinginnovations.com)