

THINK RESHARPENING & MODIFICATIONS

Think ONSRUD when you need your tools serviced back to their original condition. We use state of the art equipment to regrind and inspect your tools to make sure they were reground properly.

Onsrud can flute grind or OD grind your tools depending on your needs. These two methods can be substituted to increase the number of times a tool can be resharpened. We are capable of resharpening High Speed Steel, Carbide Tipped, and Solid Carbide tools.

Onsrud also offers a 24 hour turn around on modifications to standard products. Please complete the form on the back and fax it into Onsrud with your purchase order.

Service Cell Sharpening Pricing

CNC OD SHARPENING

TOOL TYPE	FLUTES	QUANTITIES				
		3 - 5	6 - 12	12 - 24	25 - 49	50+
HSS	1 or 2	\$5.00	\$4.50	\$4.28	\$4.06	\$3.86
CT	1 or 2	\$7.50	\$6.75	\$6.41	\$6.09	\$5.79
SC Standard/ End Mill	1 of 2	\$9.00	\$8.10	\$7.70	\$7.31	\$6.94
	3 or 4	\$10.80	\$9.72	\$9.23	\$8.77	\$8.33
	5 or 6	\$13.30	\$12.22	\$11.73	\$11.27	\$10.83
Ball - SC Standard/ End Mill	1 of 2	\$12.00	\$11.10	\$10.70	\$10.31	\$9.94
	3 or 4	\$15.80	\$14.72	\$14.23	\$13.77	\$13.33
Compression Up/Down	1 or 2	\$15.00	\$13.50	\$12.83	\$12.18	\$11.57
	3 or 4	\$19.50	\$17.55	\$16.67	\$15.84	\$15.05

CNC REFLUTING

TOOL TYPE	FLUTES	QUANTITIES				
		3 - 5	6 - 12	12 - 24	25 - 49	50+
HSS	1 or 2	n/a	n/a	n/a	n/a	n/a
CT	1 or 2	n/a	n/a	n/a	n/a	n/a
SC Standard	1 of 2	\$16.70	\$15.00	\$14.25	\$13.50	\$12.75
	3 or 4	\$20.00	\$18.00	\$17.00	\$16.25	\$15.50
Compression Up/Down	1 of 2	\$27.75	\$25.00	\$23.75	\$22.50	\$21.40
	3 or 4	\$36.00	\$32.50	\$30.75	\$29.30	\$27.75
Roughers/Hoggers*	2, 3 or 4	\$20.00	\$18.00	\$17.00	\$16.25	\$15.50
HVRB (60-600 & 60-700)*	3 or 4	\$25.00	\$22.50	\$21.50	\$20.25	\$19.25

*Can Only be Refluted and not OD serviced



Call for resharpening pricing on:

Non Standard or Custom Tools
High Performance Drills
G-Drills & Step Tools



Lead Times

The average turn around time is five working days from when we receive the tools. Resharpened router bits will be returned with a notch at the end of the shank to identify new diameter range:

Solid Carbide Tools

1 notch .005 to .010 undersize
2 notches .011 to .015 undersize
3 notches .016 to .020 undersize
4 notches .021 to .025 undersize

Carbide Tipped or HSS

1 notch .005 to .015 undersize
2 notches .016 to .025 undersize
3 notches .026 to .035 undersize
4 notches .036 to .045 undersize

Follow these simple steps to get your tools resharpened today

1. Minimum order is three pieces
2. Contact your distributor for pricing on resharpening of Onsrud Cutter products
3. Tools can not be resharpened if they are damaged, chipped beyond repair, or under a minimum diameter.
4. Tools must be received in protective tubes or packaging to be resharpened.
5. Call your Onsrud Cutter distributor for a purchase order number before shipment.
6. Send to: Onsrud Cutter Resharpening, 800 Liberty Drive, Libertyville, IL 60048. Include return address, name of your Onsrud Cutter distributor and distributor P.O. number.

THINK ONSRUD

ONSRUD CUTTER LP
800 Liberty Drive
Libertyville, IL60048, USA
Phone 800.234.1560
Fax 847.362.5028
www.onsrud.com
www.plasticrouting.com



Leitz Metalworking Technology Group

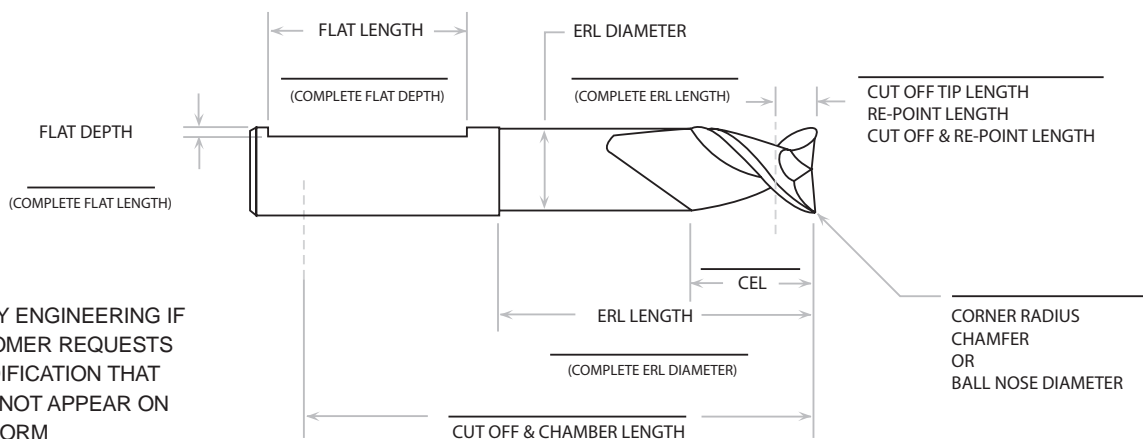
THINK RESHARPENING & MODIFICATIONS

DISTRIBUTOR _____ DATE _____

DISTRIBUTOR NUMBER _____ TOOL TO BE MODIFIED (PART NUMBER) _____

DISTRIBUTOR PO NUMBER _____ QUANTITY _____

SALES ORDER NUMBER _____



NOTE: NOTIFY ENGINEERING IF CUSTOMER REQUESTS A MODIFICATION THAT DOES NOT APPEAR ON THIS FORM

NOTES: _____

INSIDE SALES SIGNATURE _____ DATE & TIME _____

OPERATOR SIGNATURE _____ DATE & TIME _____

INSPECTION SIGNATURE _____ DATE & TIME _____

Tool Modification Instructions

- Complete form
- Establish tool cost: Net price of tool plus modification cost from chart.
- Fax to Onsrud with purchase order number.
- Orders must be received before 2:30 PM (Central time) in order to ship the following day.
- You will receive a confirmation fax

TOOL MODIFICATION		PRICING	
Part Number	Description	1-3	4-6
BALLNOSE	RADIUS: _____	\$15.00	13.00
RADIUS	DIAMETER: _____	13.00	11.00
CHAMFER	CUT OFF AND CHAMFER	6.50	5.00
CUT-REPOINT	CUT OFF TIP AND REPOINT	10.00	8.00
CUT-TIP	CUT OFF TIP UNDER 1/8	6.50	5.00
*ERL/SPNBCK	CEL RQD: _____ DIA: _____	8.00	6.00
FLAT	FLATS ON SHANK	8.00	6.00
REPOINT-1/8	REPOINT LESS THAN 1/8"	6.50	5.00

• Note: ERL price is based on one inch length.
Actual ERL length = ERL length - CEL
i.e. a 2" ERL costs \$16.00