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

		QUANTITIES				
TOOL TYPE	FLUTES	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/Dowr	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

		QUANTITIES				
TOOL TYPE	FLUTES	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



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	Carbide Tipped or HSS			
1 notch005 to .010 undersize	1 notch .005 to .015 undersize			
2 notches .011 to .015 undersize	2 notches .016 to .025 undersize			
3 notches .016 to .020 undersize	3 notches .026 to .035 undersize			
4 notches .021 to .025 undersize	4 notches .036 to .045 undersize			

Follow these simple steps to get your tools resharpened today

- 1. Minimum order is three pieces
- 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.
- Call your Onsrud Cutter distributor for a purchase order number before shipment.
- 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.



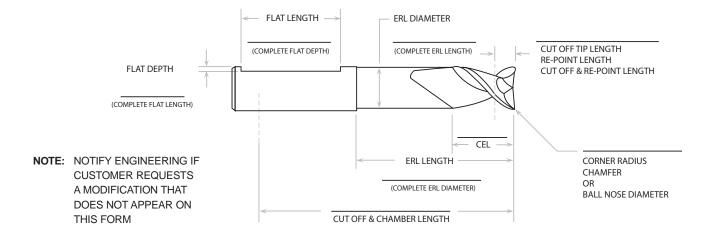
ONSRUD CUTTER LP 800 Liberty Drive Libertyville, IL60048, USA Phone 800.234.1560 Fax 847.362.5028 www.onsrud.com



Leitz Metalworking Technology Group

RESHARPENING & MODIFICATIONS

 DATE	DISTRIBUTOR
TOOL TO BE MODIFIED (PART NUMBER)	DISTRIBUTOR NUMBER
QUANTITY	DISTRIBUTOR PO NUMBER
SALES ORDER NUMBER	



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