

- ▲ Angle Cutters
- ▲ Ball Nose
- ▲ Center Drills
- ▲ Chamfer Cutters
- ▲ Concave Radius End Mills
- ▲ Corner Rounding End Mills
- ▲ Counterbores
- ▲ Countersinks
- ▲ **Custom Tools**
- ▲ Double Angle Cutters
- ▲ Dovetail Cutters
- ▲ Drills
- ▲ End Mills
- ▲ Engraving Tools
- ▲ Form Cutters
- ▲ Gear Shapers
- ▲ **High Performance Drills**
- ▲ **High Performance End Mills**
- ▲ Hobs
- ▲ Keyseat Cutters
- ▲ Plain Tooth Saws
- ▲ **Porting Tools**
- ▲ Punches & Dies

**We can sharpen virtually any cutting tool - even custom tools manufactured by our competitors.**

- ▲ Reamers
- ▲ Rotobroaches
- ▲ Roughers
- ▲ Routers
- ▲ Shell Mills
- ▲ Slitting Saws
- ▲ Spade Drills
- ▲ **Specials**
- ▲ Spot Drills
- ▲ Staggetooth Saws
- ▲ **Step Tools / Step Drills**
- ▲ T-Slots
- ▲ Tapered End Mills
- ▲ Taps
- ▲ **Variable Helix End Mills**
- ▲ Woodruffs
- ... and more

## CNC TOOL RECONDITIONING

# Restore All your **TOOLS** to **LIKE-NEW** Condition with our *Expert* **RECONDITIONING** **SERVICE**

### Valley Tool Sharpens **ALL BRANDS:**

- |                       |                   |
|-----------------------|-------------------|
| ▲ <b>Guhring</b>      | ▲ <b>DuraMill</b> |
| ▲ <b>Kennametal</b>   | ▲ <b>Garr</b>     |
| ▲ <b>M.A. Ford</b>    | ▲ <b>Gorilla</b>  |
| ▲ <b>Mitsubishi</b>   | ▲ <b>Hanita</b>   |
| ▲ <b>OSG</b>          | ▲ <b>Iscar</b>    |
| ▲ <b>Sandvik</b>      | ▲ <b>SGS</b>      |
| ▲ <b>Sumitomo</b>     | ... and more      |
| ▲ <b>Walter Titex</b> |                   |

Valley Tool **sharpens ALL BRANDS** of High Performance Carbide Drills and Variable Helix End Mills. Utilizing high precision CNC machines, drill point geometries and helix angles are duplicated and the most advanced edge preps and PCD coatings are applied, giving you **huge cost savings vs. buying new.**

Valley Tool offers a **full sharpening service that saves you money** by avoiding or postponing the purchase of new tools. Our **PROMPT DELIVERIES** reduce the amount of inventory needed. Our surgically sharp edges provide a longer lasting tool that results in a higher volume of parts per edge and significantly less downtime. **Emergency services** are available.

**ALL  
BRANDS  
prompt  
DELIVERIES  
COST  
SAVINGS**

## STATE-OF-THE-ART CNC MACHINERY

**Our advanced CNC Grinding machines give you the correct tool geometry, each and every time. We maximize your tools' sharpness** with the least amount of stock removal that will result in less down time and fewer tool changes. Tools are ground to the Original Manufacturer Specifications (OMS) and the exact cutter geometry is maintained to maximize tool life.



## INSPECTION REPORTS

**All tools serviced are inspected on our state of the art Zoller Genius 3.**

From rapid testing of individual criteria to complete, fully automatic, operator-independent checking of tools. Results can be printed for your inspection reporting.

## GETTING STARTED

Our reconditioning service is easy to implement. Send your dull, unsorted tools. Valley Tool will return your tools, repackaged with a label for easy inventory or vending machine allocation, reconditioned to perform as good as new!

**VT Valley Tool**

# Types of Reconditioning Services

High precision remanufacturing delivers longer reground tool life and often more regrinds per tool, resulting in significant cost savings in terms of both tooling and machining expenses.



## END AND OD

Work extends to all cutting edges. In addition to sharpening the cutting end and radius, we clean and sharpen the full length of each flute, repair the OD, and provide recoating.

### Resolved Issues

- Dull, worn cutting edges
- Chips and notches
- Worn flutes
- Material buildup
- OD inconsistent, unbalanced
- Damaged coating



## OD ONLY

We rework the OD and radius and restore geometries while maintaining the length of cut and overall length, and provide recoating.

### Resolved Issues

- Worn flutes
- OD inconsistent, unbalanced
- Damaged coating

For OD Only service, please mark the tools as OD Only.



## END ONLY

All work is focused at the end of the tool. We return the cutting end and radius to their original sharpness (which may require cutting off the original end to grind a new one), and provide recoating.

### Resolved Issues

- Dull cutting edges
- Chips and notches
- Damaged coating

For End Only service, please mark the tools as End Only.

## How does the process affect the tool?

Loss of Length will depend on the amount of wear:

	End and OD	OD Only	End Only
Flute Length	Shorter	Maintained	Shorter
OD	Smaller	Smaller	None
OAL	Shorter	Maintained	Shorter
Radius	Restored to same	Restored to same*	Restored to same*

\* If end wear is excessive, we may have to cut-off a minimal amount from the end to restore its proper geometries.

