



Better Edge Reconditioning Services

Restore LIKE-NEW Performance, Guaranteed!

High-Performance Carbide Drills, End Mills & Special Cutting Tools



Reconditioning Services, PVD Coating Services, Tool Modifications & Geometry Optimization


BetterEdge
Reconditioning Services

www.better-edge.com

Reconditioning Services

Better Edge Reconditioning Services is a business with its primary purpose being to restore used and worn cutting tools in a way that enables them to provide the same performance and productivity as they were when they were brand new. Typically, companies providing regrinding services do so as a supplement to higher priority things they do. Some are primarily tool & cutter grinders, set up to do small runs of special tools and component parts. Others are cutting tool manufacturers, whose focus and priorities are on manufacturing new tools. Better Edge was built to provide reconditioning services.

- > **Standard Reconditioning** – restores the tool to its original manufactured specifications and includes re-coating the tool with the appropriate PVD coating.
- > **Enhanced Reconditioning** – in addition to basic restoration, we modify the geometry to improve the tool's performance within a specific application. To do this we will need to know the material being machined, the type of operation and the desired improvement (higher metal removal rate, longer tool life, better surface finish). We would then advise the changes we'd recommend before proceeding.
- > **Tool Modification** – adding a corner radius, a shank flat, or neck clearance relief, reworking an end gash, or reducing the cutting diameter or length of cut. This kind of work can be done to new or used tools.

Carbide Tool Styles Serviced

- > Drills
- > End Mills
- > Reamers
- > Countersinks
- > Trepanning Tools
- > Porting Tools
- > Form Tools
- > Spade Drills
- > Counterbores
- > Insert Blades
- > Special Cutting Tool:
- > Large Diameter HSS Tools
(1,000" & larger)



Equipment

CNC 5 Axis Grinders

- > 1 - Schneberger Norma 75
- > 2 - Schneberger Norma CFG
- > 1 - Star PTG6
- > 1 - Star PTG4
- > 1 - True Tech O.D. Grinder
- > 1 - Harig Centerless Grinder
- > 1 - Okamoto Surface Grinder



Wheel Dresser (General)

- > Diamond and CBN Grinding
- > Wheel Truing and Dressing Capabilities

Edge Preparation

- > Proprietary Design Special Honing Machine
(Patent Pending)

In-house PVD Coating Center

- > Cemecon Unit - Model CC800 / 9ML

Inspection

- > 1 - Scherr Tumico 20"
- > 2 - 14" J&L
- > 1 - Mitutoyo Toolmakers Scope
- > 1 - Leiss Toolmakers Scope
- > 1 - Zeiss Contour Graph

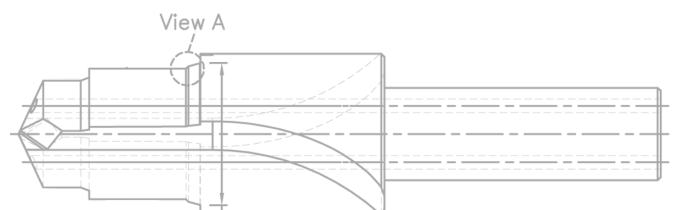


Filtration

- > 1 - Transor Filtration System

Other

- > CADD tool drawing



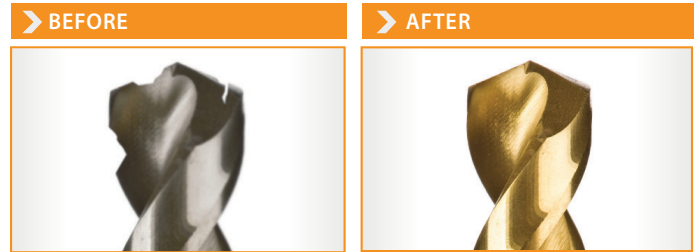
PVD Coating Capabilities

When providing standard reconditioning services, we re-coat the tool with the same type of coating the tool came to us with. We provide toll coating services for the following PVD coatings:

- > TiN
- > AlTiN
- > TiAlN
- > TiB2
- > Kabrlyn Advantage & Kabryln Plus

Most regrinding houses use independent toll coaters, who use generic recipes for particular coatings, regardless of the type of tool or part that is in their chamber. At Better Edge, our coatings are optimized for drills and end mills. Controlled processes and capabilities for both standard and proprietary codings provide better performance, increased flexibility and faster deliveries in our service from having our own in-house PVD coating center.

Authorized Reconditioning Service Center for

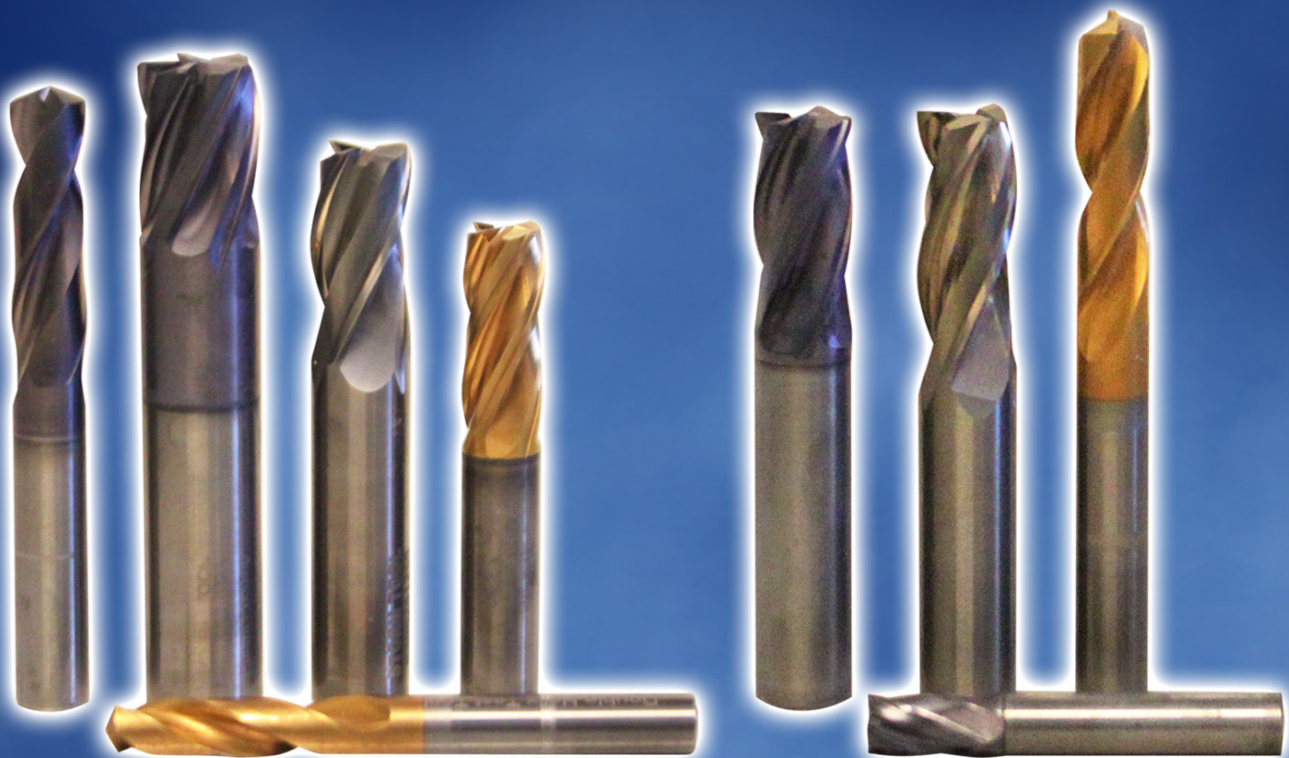


Better Edge will restore drill points to original specifications all top brands of solid carbide high performance drills, including Kennametal, Widia, ATI-Stellram, Mitsubishi, Sumitomo, Sandvik, OSG, Titex and Hanita

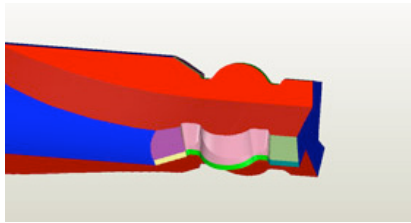
No matter the degree of wear, Better Edge will restore like-new performance - GUARANTEED

For fastest service, submit your order online at www.better-edge.com

We will even send you a prepaid UPS ARS (Authorized Return Service) to send your tool order for free.



Geometry Optimization Capabilities >>>

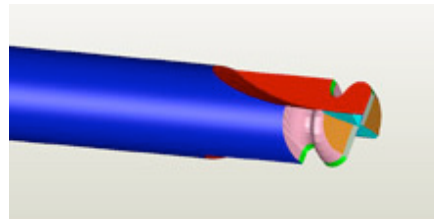


Ever ask yourself, "How can I get more performance from my cutting tool?"

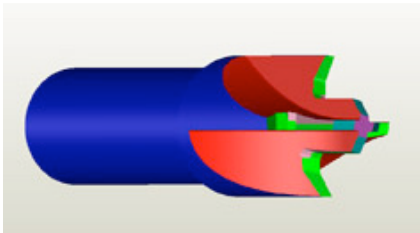
Sometimes it's by moving to a particular high performance geometry, offered as a standard by one of the cutting tool manufacturers. Sometimes, it's by using a different coating. But more often than not, performance can be significantly improved by tweaking the geometry to suit the particular application.

At Better Edge, we call that "optimizing the geometry." If we know:

- > the kind of cut your taking (blind or through hole, a roughing cut, a finishing pass, etc.)
- > what depth of cut you're taking
- > the specific material and condition of workpiece (if it's stainless, what kind? If it's 4140, what hardness..... be specific)
- > and what is most important to you in the outcome (maximum metal removal rate, higher surface finish, OR longest tool life) (keep in mind you can have more of one... but at the expense of the other two.....)



we can make appropriate changes to the geometry of your tool and / or use a different coating to deliver the performance improvement you seek.



When you use Better Edge to recondition your tools, you have an option of having us fine tune the geometry for your specific application. Just include a comment on the form you send with your tools that you want Enhanced Reconditioning Services and give us some details about the operation you want the cutter to perform. We'll call you back and ask you the rest of what we'll need and provide you a quote to do it.

Try us out. Our customers tell us they've been getting better than 30% improvement on productivity, when they use this unique service.

Can you use 30% improvement in performance from your tools?


BetterEdge
Reconditioning Services

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