

# SAVE 70%

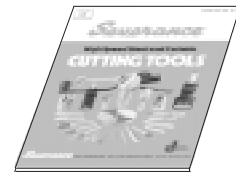
# OR MORE



*Have*  
**Severance**<sup>®</sup>  
*regrind your HSS  
or Carbide Tools.*



You're throwing money away when you discard worn cutting tools. Severance can restore them to like-new condition at a fraction of the cost of replacement. Any brand...any size (1/16" to 3")...any style, standard or special.



Inquire today for your **FREE** catalog and price list.

**Severance**<sup>®</sup> Tool Industries, Inc.

3790 ORANGE STREET  
P.O. BOX 1866  
SAGINAW, MI 48605

Phone: (989) 777-5500  
Fax: (989) 777-0602

# Severance<sup>®</sup> — Tool Regrinding Service

## **HISTORY...**

Severance Tool Industries, Inc. was founded in 1930, as a tool sharpening service for the automotive plants in the Saginaw area. Grinding techniques developed by Mr. Severance proved so successful that his reconditioned tools significantly outperformed the original cutters. Soon aircraft plants had Severance resharpener cutters to new tool tolerances. After seven decades, Severance has become a leading manufacturer of rotary cutting tools, but is still the nation's largest regrinding service.

## **EXPERIENCE PAYS ...**

The Severance Regrind Department is staffed by the company's most experienced personnel because restoration is a more exacting task than original manufacture. The first challenge is to correctly identify incoming tools as to their brand, size, shape and catalog number (or drawing number in the case of specials). Then, the degree of damage is evaluated for each tool to determine the processing steps needed to restore it to original specifications.

## **ATTENTION TO DETAIL ...**

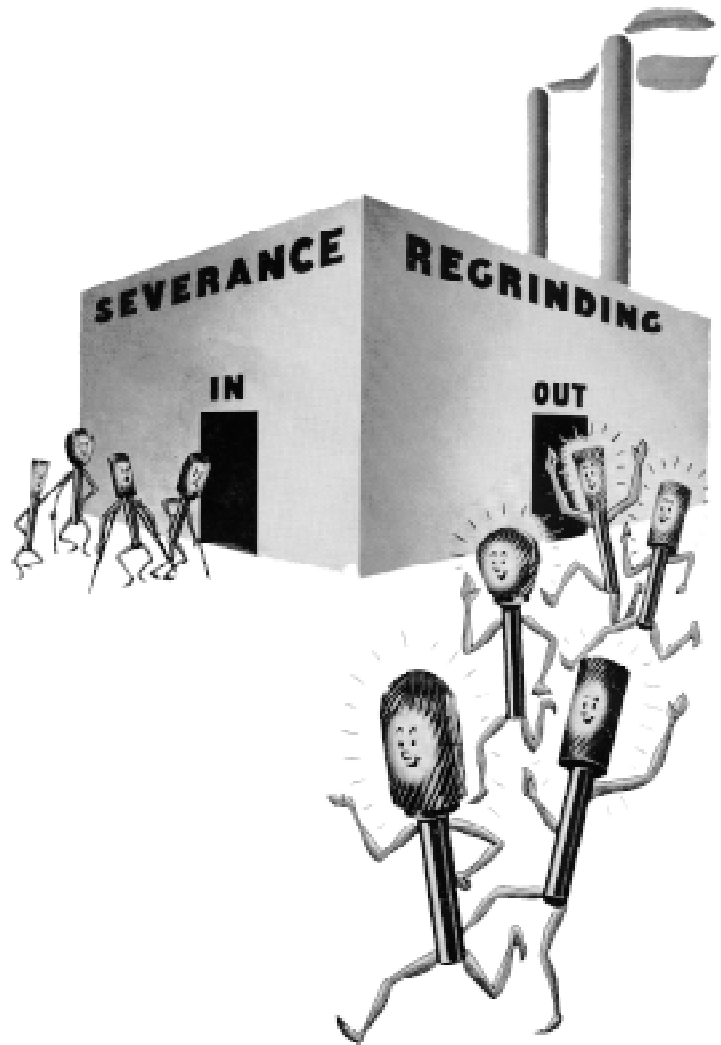
Severance receives many tools for regrinding that are neither cataloged items (ours or other brands) nor Severance-manufactured specials. If these tools are not accompanied by a description or drawing, they go to our inspection department. Engineering will either request a drawing from customer or prepare a drawing, based on identifiable dimensions and features of the tool. The customer may be called to resolve any remaining questions. A print is then retained in the incoming inspection file against future appearances of the tool.

## **ESTABLISHING SHAPE ...**

Tools that need anything more than a light sharpening cut go to the machine grinding department. Here, the basic shape of the tool is re-established by removing enough material to get rid of dull edges and chips. After repeated regrindings, or when major damage is involved, the tool may need re-fluting. This operation is also done in the machine regrinding department.

*For Assistance, Contact Your Local Dealer:*

Severance Tool Ind. Inc. reserves the right that all prices and tools are subject to change or correction without notice.



**THE CUTTING EDGE ...** The final step in the reconditioning of a cutting tool is "backing off" the cutting edge. This hand grinding operation removes material behind the edge at a specified angle, leaving a thin land to support the cutting edge. Final cutting tooth geometry determines the performance and durability of the tool, so our craftsmen adhere very closely to established specifications.

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# IT PAYS TO HAVE YOUR WORN CUTTERS REGROUND BY SEVERANCE!



**New Tools From Old At A Fraction Of Original Cost!**

## **HIGH SPEED AND CARBIDE**

Your dull rotary cutters, Reground by Severance, gives you new tool performance at LOWER COST.

New-Tool Craftsmen, using the same precise skill and care as they do in grinding new tools, regrind your cutters.

Being the originators of this type of Service, we believe the combined experience of our Engineers and Craftsmen is unsurpassed in this field.

Check up right now on the dull Rotary Files, Burrs, Midget Mills®, Countersinks, Tube End Forming Cutters, exc., in your plant, and arrange to have them Reground by Severance.

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