



# PRODUCTION STONES

## Using Microhone® Technology

### The Legacy of Bates Technologies

Bates Technologies and its honing products are built on a long legacy of innovative technology and technical expertise. Today's Bates includes the Micromatic line of tooling and abrasive products, including the Microhone® and Microsize® tooling and processes, size controls, and machine parts. At work in manufacturing processes worldwide, Bates products are the leading choice for forward-thinking companies—from specialized machine shops to the largest manufacturers in precision metalworking, including aircraft, automotive, transportation, packaging, and petroleum industries.

### Products

The Bates family of products represents a complete line of bore finishing solutions for all industries. Products include:

- Conventional Microabrasives (Vitrified- and Resin-Bonded)
- Superabrasives (CBN and Diamond in Vitrified-, Resin-, and Metal-Bonds)
- Microhone®, Microsize®, Micro-Mold® Bonded and Electro-Plated Mandrels and Tooling
- CBN and Diamond Electro-Plated Products
- Micro-Precision Gaging and Size Control Systems
- Microhone®, CNC Tooling and Abrasive Systems

### Products are created for all honing machines:

- Micromatic
- Sunnen
- Barnes
- Gehring
- Nagel
- Toyo
- Kadia
- Delapena
- Engis
- Jones and Shipman
- Accu-Cut
- Fuji
- Others

### Services

- Applications Technology Center (ATC)
- Test Drive Trial Program
- Electronic Ordering of Stock (EDI)
- Process Application Analysis
- Service Department

### Facilities

- Indianapolis, IN
- Berne, IN
- Angola, IN

### Superabrasives, Unique Bonding Process Yield Industry's Longest Life Products

Engineered to specification for all types of honing machines, Bates Technologies' Microhone® stones and tooling have produced startling results machining production parts in cast iron, steel, alloys, cermaic, and nearly every other type of material.

Created of diamond or cubic boron nitride (CBN), Bates' superabrasive stones are regarded for their superior cutting action, fast stock removal, and more superior finishes. The result of a unique bonding process, Bates stones and tooling yield tremendous accuracy and consistency, and are capable of finishing thousands of parts with few rejections.

Bates' engineers and technicians assist customers on production processes from beginning to end, from planning the initial application to fine-tuning production. Technicians ensure consistency, quality control, and overall cost efficiency.





**BATES**  
TECHNOLOGIES, INC.  
HONING SPECIALISTS

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### Engine Block and Connecting Rod Stones

Stones of every size and variety are designed for both original engine manufactures and remanufactured engine blocks. These include small gas engines, large diesel engines, large diesel truck engines, and car automotive engines.



### Tube Honing Stones

Tube hones are created by Bates for large production and remanufacturing operations. The tube hones are utilized for hundreds of parts, including hydraulic tubes, mud pump liners and petroleum tubes.



### Stones for Use in Sunnen Honing Machines

Stones for Sunnen honing machines are created in nearly every size for nearly every type of application. Many stones for Sunnen machines are available from stock in a matter of days.

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Contact our representative:



**BATES**  
TECHNOLOGIES, INC.  
HONING SPECIALISTS



**Micromatic®**  
Honing Tools & Abrasives



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