

### The Legacy of Bates Technologies

Bates Technologies LLC, a division of Lapmaster International, is built upon an 80+ year legacy of innovative honing and bore sizing technology and technical expertise. Included in this legacy are the world class manufacturing expertise of the Micromatic and Barnes companies which continue to produce state of the art honing machines, precision stroke and single-pass bore sizing tools, abrasives and air gage systems. Bates products are the preferred choice for forward-thinking companies — from specialized machine shops to the largest manufacturers in the precision metalworking industry, including automotive, aircraft, energy, compressor, and petroleum industries.

### Products

Our honing products represent a complete line of bore finishing solutions for all industries.

- Precision hone tooling engineered to fit and function on all styles of hone machines
- Advanced hone machinery from the Barnes Bore Honing and Finishing Systems group
- Agile and Flexible Honing and Air Gage Systems for use on CNC Machining Centers
- Single Pass Bore Size tooling using electroplated or sintered diamond abrasives
- PAG's Precision Air Gaging and Size Control Systems
- Honing stones: CBN and diamond (metal-bond) – SiC/AIO x (vitrified and resin bond)
- Microsize® and Micro-Mold® metal-bonded and jacketed abrasives

### Products are created for all honing machines:

- |              |            |              |
|--------------|------------|--------------|
| ■ Micromatic | ■ Engis    | ■ Kadia      |
| ■ Gehring    | ■ Toyo     | ■ Accu-Cut   |
| ■ Sunnen     | ■ Delepena | ■ Fuji       |
| ■ Barnes     | ■ Nagle    | ■ And Others |

### Services

- Hone-Tech Center
- Machine and Tooling Upgrades
- Hone Process Analysis
- Service Department

### Facilities

- Noblesville, IN
- Mount Prospect, IL



## Bates Technologies' Mandrels and Tooling Products Provide Flexibility for all High Production Honing Applications

Bates' production honing mandrels and tooling are designed to meet all of your high production application needs. The Bates products are successfully utilized in the manufacture of pinion gears, engine blocks, connecting rods, power steering and diesel injector housings, small two-cycle engine blocks, and many other non-automotive parts.

Mandrels and tooling from Bates are designed to fit and function in any style honing machine using hydraulic, stepper, and servo feed systems. On-board air gaging is available on most tool designs. Bates tooling is specifically designed to promote manufacturing efficiencies, and to provide longer life, better bore geometry, and better finishes.

Production honing mandrels are available in single-stone and multi-stone designs from 4mm to over 700mm in diameter.