



## **Unmatched Precision**

for Superior Product Performance



# The most precise tolerances in the industry

Boston Centerless has been supplying AccuRod® precision ground bar materials and GrindAll grinding services to customers in a variety of industries worldwide since 1958. Whether the end product being manufactured is a spinal implant, fuel injection valve seat or fluid control component, ultra-precision is integral to the success of product performance. Boston Centerless is the industry leader in precision grinding technology ensuring that your product performance is at its best.

## AccuRod® Precision Ground Bar

Customers depend on the value that Boston Centerless delivers. Sourcing material and grinding with one vendor saves time and money, enabling you to get product to market faster. AccuRod® material will help you achieve the most efficient manufacturing results and decrease your manufacturing costs. We source material from only the highest quality mills. Add to that Boston Centerless' grinding expertise, and the end result is the most accurate and consistent bars in the industry, which translates to downstream savings for our customers.

## GrindAll Grinding Services

The GrindAll Division performs grinding services on customer-supplied bars or components. We can apply our ultra-precise bar straightening and grinding processes to your material. In addition, our ability to finish grind complex components to exceptionally close tolerances utilizing thru-feed centerless, in-feed centerless, cylindrical and/or internal grinding sets us apart and gives you more options with one vendor.

## PinGage Ultra-precise Gages

Working with such precise measurements every day, we understand the importance of verifying the accuracy of a finished part. The PinGage Division manufactures and distributes a line of gage pins. With in-house manufacturing capabilities, we can ensure process control and maintain the highest quality standards. Products manufactured include thread measuring wires, gear measuring wires and cylindrical plug gages.

## Unparalleled Customer Service

Boston Centerless strives to make the supplier—customer relationship a seamless one. Supplying a high quality product is only one part of that. Supply chain management is a service that we provide to help streamline the purchasing activity at your company. We will customize a stocking program to meet your exact needs, thus eliminating additional time and effort on your part to manage inventory.

Our dedication to lean management assures that you will benefit from our continuous efforts to improve processes, increase efficiency and drive waste out of daily activities.

## Northeast Shingo Prize

Boston Centerless is the recipient of the Northeast Shingo Prize silver medal. Our company won this award in recognition of our achievements in world-class manufacturing through the implementation and practice of lean manufacturing principles.



# AccuRod®

## Precision Ground Bar

AccuRod® supplies precision ground bar materials for close tolerance machining applications. With over 25 thru-feed centerless grinders, we are equipped to provide quick turnaround and have the capacity to handle large contracts.

We start with material that has superior machinability characteristics, sourced from only the highest quality mills, and apply our grinding expertise resulting in superior straightness and consistent dimensional tolerances from bar-end to bar-end and bar-to-bar. We consistently hold ultra-precise tolerances of .0001" on 12-foot lengths with .00005" roundness.

Our expertise and capacity along with our strong supplier relations enable Boston Centerless to effectively manage your inventory programs, giving you one point of contact for all your material and grinding requirements, thus saving you time and expense.

### Customer Benefits:

- Lights-out manufacturing
- Consistently higher quality finished components
- Less scrap / rework
- Improved material yields
- Less machine downtime
- Results: Material and labor cost savings

### Capabilities and Services:

- Diameters from .008" to 3"
- Tolerances to .000040"
- Lengths to 20 feet
- Finishes to 3 Ra
- Straightening
- Heat-treating
- Bar end chamfering
- Saw cutting
- Kan Ban, JIT stocking programs

### Materials:

- Stainless Steels
- Titanium
- Specialty Alloys
- Alloy Steel
- Aluminum
- Plastic
- Copper Alloys
- Tool Steel
- Pre-heat Treated Bar

### Other Forms Supplied:

- Boston Centerless can also procure and manage your inventory for:
- Precision Flats
  - Cannulated Bar



ISO 9001:2000 Certified



781.994.5000 | 800.343.4111  
781.994.5001 fax  
info@bostoncenterless.com  
www.bostoncenterless.com

# GrindAll

## Complete Grinding Services

GrindAll provides complete grinding services for bar material and round components supplied by the customer. Our centerless grinders handle pre-machine to finish grind operations, using the thru-feed, in feed or profile method. In addition to centerless grinding, we specialize in cylindrical and internal grinding of complex components to unusually close tolerances.

### Capabilities:

- Thru-feed centerless grinding
- In-feed centerless grinding
- Cylindrical (O.D.) grinding
- Internal (I.D.) grinding

### Experience

At Boston Centerless, our years of experience allow us to accurately recommend manufacturing processes that result in the most precise, cost-effective quality parts. Having a value stream dedicated to grinding customer supplied materials / components ensures quick turnaround.

### Partner with GrindAll

Consider GrindAll as an extension of the services that you can provide. We partner with contract manufacturers and material suppliers to augment their in-house capabilities, enabling them to increase the value they can offer to their customers. Many customers outsource their grinding operations to GrindAll because they have the utmost confidence that we will provide unmatched quality and reliability.



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# PinGage

## Ultra-Precise Gages

PinGage offers quality gage products to assist you with your measurement requirements. Manufactured in-house, PinGage plug gages enable you to validate the most precise measurements with confidence. Fast delivery times and exceptional quality distinguish PinGage from the competition. For superior thread measuring wires, gear measuring wires and cylindrical plug gages, PinGage is the solution.



### Thread Measuring Wires

Available Sizes:

- 60 Degree English: 2 pitch to 120 pitch
- 60 Degree Metric: .2mm pitch to 10.0mm pitch
- 29 Degree Acme: 1 pitch to 20 pitch

Additional Information:

- Certification of calibration traceable to NIST accompanies each set
- Thread wire holders and sets available upon request



### Gear Measuring Wires

Available Sizes:

- Sizes: 2 pitch to 200 pitch
- Series: 1.92", 1.728", 1.68", 1.44"

### Cylindrical Plug Gages

Specifications:

- Classes: X, XX, XXX and specials
- Custom lengths available upon request

Available Sizes:

- .0040" to 1.010"



### Optical Flats

Specifications:

- Flatness Grades: .000004", .000002", .000001"
- Surface: Single surface and double surface

Available Sizes:

- Diameters: 1" thru 6", 8", 10" and 12"
- Custom sizes available upon request

### Lapping Services

PinGage provides cylindrical lapping services for customer supplied material or components. The lapping process makes it possible to attain super-precise tolerances and smoother, high polished finishes.

### Calibration and Inspection

We also offer calibration and inspection services on your existing products. Our state-of-the-art calibration lab can accommodate your calibration needs with quick turnaround. All calibrations are traceable to NIST.



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Boston Centerless  
11 Presidential Way  
Woburn, MA 01801  
781.994.5000  
800.343.4111  
781.994.5001 fax  
info@bostoncenterless.com  
www.bostoncenterless.com

