The PG-9BHD Centerless Form Grinder produces spherical or cylindrical components from pre-form or rod in a range of materials, including rubber, ceramics, wood, plastic, glass, and Teflon® (PTFE). The PG-9BHD delivers high throughput and quality results, yet saves production space thanks to a small footprint.

Starting with a rod of material, the PG-9BHD can produce intricate cylindrical shapes, or even grind the rod directly into balls. The unique oscillating regulating wheel assembly, used in ball form applications, forces parts to rotate randomly while grinding. This ensures sphericity -- the 3-dimensional roundness of the ball. For this reason, the clear majority of roll-on deodorant balls and golf ball cores in the world are ground on Glebar Form grinders.

The PG-9BHD Centerless Form Grinder is a highly controllable machine able to Form grind parts as small as felt pen nibs to 4" diameter fiberglass on the same machine. Robust and small in size, this workhorse is unmatched in productivity.

The PG-9BHD can be fitted with a 15HP main spindle motor for heavy grinding of materials such as G10 fiberglass turning cylinders into balls. The spindle is a high precision twin grip setup. A hard chrome plated regulating wheel slide is dovetail ground for longevity, yet smooth due to our use of Turcite for gibs.

On-Machine Contour Wheel Dressing
The machine is designed for contour dressing directly on the machine. Straight-line or template-tracing hydraulic dressers are also used in certain applications. Glebar also produces offline dressing machines: the manual DM-9B and the fully-automated DM-9CNC.

Automation and Accessories
A variety of feeding systems are available for rod or ball feeding from the top or side of the machine, from semi-automated systems for testing and small production runs all the way up to stainless-steel hoppers that can hold thousands of balls. Custom solutions tailored to specialty applications are also available.
FEATURES

- Multiple components per cycle
- Up to 10-1/8" usable grinding area
- Oscillating regulating wheel for improved sphericity on ball forms
- Hydraulic variable speed regulating wheel drive
- Hydraulic ram positioning
- Reliable PLC-driven control
- Hard-chromed dovetail slide with turcite gib
- Simple wheel removal and replacement
- On-machine dressing available
- Extensive selection of rod or ball feeding systems
- Multiple components per cycle
- Up to 10-1/8" usable grinding area
- Oscillating regulating wheel for improved sphericity on ball forms
- Hydraulic variable speed regulating wheel drive
- Hydraulic ram positioning
- Reliable PLC-driven control
- Simple wheel removal and replacement

SPECIFICATIONS

- Diameter Accuracy: 0.0005" (13µm)
- Grinding Diameter Capacity: Min 0.002" (0.05mm), Max 4" (100mm)
- Roundness: 0.0005" (13µm)
- Work Wheel Diameter: 9" (229mm)
- Work Wheel Power: 7.5HP (5.6kW), 10HP (7.5kW), or 15HP (11kW)
- Work Wheel RPM: 2500
- Work Wheel Length: 10-1/8" (257mm)
- Regulating Wheel RPM: 10 - 400
- Machine Footprint: 47"x39"x50" (119x99x127cm)
- Hydraulic Pump Motor Power: 2HP (1.5kW)

Visit our website for a full list of available accessories for this machine.

www.glebar.com/machines/PG-9BHD

INNOVATION
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Since 1952

Glebar is an ISO 9001 certified company

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On-Machine Contour Wheel Dressing