

PG-9BHD

Centerless Plunge Grinder



The PG-9BHD grinds spherical or cylindrical components from pre-form or rod in a range of materials, including rubber, ceramics, wood, plastic, glass, and Teflon. The PG-9BHD delivers high throughput and quality results, yet saves production space thanks to a small footprint. The 10-1/8" (257mm) wide wheel allows it to grind multiple parts per cycle in most applications. Featuring a reliable and time-tested design, customers around the world have come to expect the outstanding results that come with over half a century of experience in plunge grinding. In some industries, the word "Glebar" is synonymous with the process of plunge grinding.

Thousands of different of parts have been ground using the PG-9BHD. Examples include drumsticks, golf ball cores, deodorant balls, check valve balls, pen nibs, fuse bodies, ceramic insulators, billiard balls, contact lens blanks, and decorative wood spindles.

Starting with a rod of material, the PG-9BHD can produce intricate cylindrical shapes, or even balls. The unique oscillating regulating wheel assembly, used in ball form applications, insures sphericity - the 3-dimensional roundness of the ball. There is a reason the vast majority of the world's roll-on deodorant balls and golf ball cores are ground on Glebar machines. With the fast approach valve, we are able to grind most materials in seconds for a very efficient process. With rock-solid PLC driven control, the PG-9BHD is able to deliver repeatable results, increasingly important in a Six Sigma driven world.

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 to stainless steel hoppers that can hold thousands of balls. Custom solutions tailored to specialty applications, as well as a selection of filtration equipment, are also available.

The low maintenance hydraulic system consists of a 2HP motor and a variable displacement type pump, which supplies enough oil for maximum performance while reducing operating temperature and preventing over-speeding. The machine is designed for contour dressing directly on the machine. Straight-line or template-tracing hydraulic dressers are also used in certain applications.

THE GLEBAR ADVANTAGE

Traditional grinding of wooden dowels uses a back-knife lathe, requiring additional machines to cut the ends and polish the piece. Using a PG-9BHD, the part is ground centerlessly, containing and rotating the part without the need to hold the ends. The resulting stick is made in less time, in fewer operations, and is dimensionally more accurate. The best drumsticks in the world, for example, are made using Glebar equipment.



INNOVATION MANUFACTURED™
SINCE 1952

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KEY FEATURES

- Multiple components per cycle
- Up to 10-1/8" (257mm) usable grinding area
- Oscillating regulating wheel for improved sphericity on ball forms
- Hydraulic variable speed regulating wheel drive
- Hydraulic slide positioning
- PLC driven control
- Simple wheel removal and replacement
- Built-in dressing capability
- Extensive selection feeding systems



SPECIFICATIONS

- Diameter accuracy: +/- 0.001" (25µm)
- Roundness: +/- 0.001" (25.4µm)
- Grinding diameter: MAX 4" (100mm) - MIN 0.002" (0.05mm)
- Grinding length: MAX 10" (254mm) -
- Wheel size: 9" x 10.125" (229 x 210mm)
- Work wheel spindle power: 7.5 (5.5kw) - 15HP (11kw)
- Work wheel RPM: 2375
- Regulating wheel power: 2HP (1.45kw)
- Regulating wheel RPM: 10 – 400
- Weight: 1800lbs (820kg)



ACCESSORIES

- Ball feeder
- 3-stage recirculating coolant system
- Wheel balancing system
- Contour work wheel dressing attachment with storage box
- Straight line Regulating Wheel Dresser

GRINDS

- Glass
- Plastic
- Composite
- Ceramic
- Rubber
- Wood



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