

PG-9CRG



INNOVATION
MANUFACTURED™
Since 1952

OD Grinding System

The PG-9CRG OD Grinding System shapes the diameter on parts where the diameter of the piece is concentric to the centerline of the part. The PG-9CRG manufactures things from rubber rollers for laser printers to dental drills.

The PG-9CRG is a compact machine that can perform the functions of a much larger OD machine. For profiles up to 12" wide, this machine is capable of grinding a shape in components concentric to a center shaft much faster than competing systems since the plunge operation shapes the component in one motion rather than having an OD grinder "chase" the shape over the length of the part. Precision collets insure optimum concentricity control. Coupled with variable speed collet rotation and slide velocity, the grinding process can be optimized for efficient material removal at fast, controlled speeds.

Originally designed to process rubber rollers for printer toner cartridges, this machine excels at holding a very tight concentricity spec. The fully programmable slide can be positioned to an accuracy of 0.1 microns. The machine is simple to operate using Glebar's intuitive user interface. The PG-9CRG can interface to robots and seamlessly attaches to non-contact inspection systems for complete, hands-off operation. The wide grinding wheel can be dressed using a template tracing dresser mounted on the machine. Variable speed oscillation of the workhead can dramatically improve surface finish of the ground component. Check out the PG-9DOD for a more compact version of this machine.

Automatic Work Wheel Dressing System

An available dressing system automatically advances diamond and dresses the work wheel while tracing a formed template. The dresser can be activated at predetermined intervals and it adjusts the machine accordingly.

// THE GLEBAR ADVANTAGE

Traditional OD grinding methods rely on CNC programming to profile shapes. Although adequate for prototyping, an OD machine is slow since the grinding head has to traverse the length of the part. Alternatively, the PG-9CRG is able to form components in one pass. Additionally, the PG-9CRG leverages Glebar's vast knowledge in grinding wheel compositions to match the optimum grinding wheel for your material. As a compact machine that can be highly automated, the machine can be simply adapted to grind small components using the installed collets.



Pick and Place SCARA Robot

An available robot incorporates two grippers for loading and unloading during the grind cycle, reducing cycle time

HMI Controls & Connectivity

The control software is entirely developed at Glebar and is fully customizable to address your application and process. The intuitive touch screen interface allows for ease of use and flexibility. The machine software interface was developed to allow an unskilled operator to run many high precision machines simultaneously. Remote connectivity simplifies troubleshooting and maintenance.

KEY FEATURES

- ✓ Precise slide positioning
- ✓ Simple operator interface
- ✓ Fully customizable cycle
- ✓ Remote control and monitoring
- ✓ Oscillating grinding wheel assembly
- ✓ Rigid and compact design
- ✓ Safe clean enclosure
- ✓ Hard chrome slides
- ✓ Automatic way lubrication
- ✓ Super Precision twin grip spindle



Automatic Work Wheel Dressing System

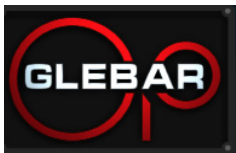
SPECIFICATIONS

- Work Wheel Power : 15HP
- Grinding Wheel : 9" Diameter, 12-5/8" length, Diamond or vitrified
- Stock Size : Diameter 2" (50.8mm), 0.375" (9.5mm) Min, Shaft 1.5" (38.1mm), 0.187" (4.76mm) min, Ground roll face 12-5/8" (321mm) max. (custom sizes available)



HMI Controls

For a full list of available accessories for this machine, visit our website. www.glebar.com/PG-9CRG



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