

# FW-9D



INNOVATION  
MANUFACTURED™  
Since 1952

## W Ferris Wheel / OD Grinder

The advantage this machine has over other processes is the ability to shape components up to 5" wide.

The FW-9D offers a unique version of plunge grinding where the outside shape of the product is ground relative to the center of the part. The ferris wheel machine was designed to process rubber capstans and has since evolved grinding precision bushings, ceramic components such as spark plugs. This unique technique solves the concentricity problem faced by conventional centerless grinding machines. It also allows the machine to have parts staged during a grind cycle.



Ceramic Insulator  
Bodies



Ceramic Insulators  
For Powerlines



Composite Spindle



Spark Plugs

### Cast Iron Bed

The FW-9D is a compact yet powerful grinder built on a cast iron bed, providing a small footprint and high output.



### Workhead Assembly

The machine uses a robust twin grip high precision spindle ensuring part repeatability over time. By using a motorized plate with arbors installed on its circumference as a holding fixture, parts can be loaded manually or by using robots onto the precision arbors. The plate then rotates in a controlled manner into a shaped grinding wheel while the part is being supported and rotated by a regulating wheel.

### // THE GLEBAR ADVANTAGE

The compact machine footprint is able to out produce much larger double disc grinders when the component to be ground is small in diameter. Combining the latest in multi-axis slide controls, the machine can be configured for your application specifically. The interface software can be designed to meet your production requirements encompassing controls for all peripheral attachments such as robots and bowl feeders. In-line inspection can be deployed to automatically adjust size, further improving the machine's accuracy and repeatability.

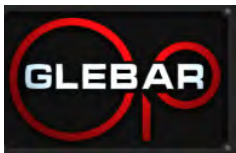
## KEY FEATURES

- ✓ Precision stepper motor positioning head
- ✓ Adjustable load cycle move profile
- ✓ Fully customizable operator interface
- ✓ Rigid compact design
- ✓ Integration with automation systems and robots
- ✓ Integration with inspection systems.

## SPECIFICATIONS

- Diameter Accuracy : 0.001" (25 microns)
- Grinding Diameter Capacity :  
MAX 1.5" (38mm) - MIN 0.25" (6.35mm)
- Roundness : 0.001" (25 microns)
- Work Wheel Power : 15HP (11kw)
- Work Wheel RPM : 2375
- Regulating Wheel Power : 2HP(1.45kw)
- Regulating Wheel RPM : 10 - 400
- Machine Weight : 2000 lbs.
- Grinding Length : MAX 5" (127mm)
- Wheel Size : 9" x 5" (229mm x 127mm)

For a full list of available accessories for this machine, visit our website. [www.glebar.com/FW-9D](http://www.glebar.com/FW-9D)

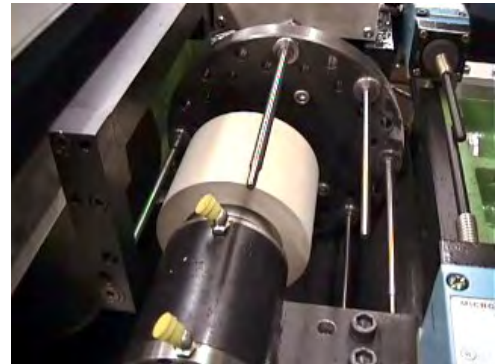


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Parts Carrying System



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