



# TF-9D

## INFEED/THROUGHFEED CENTERLESS GRINDER

The Glebar TF-9D Infeed/Throughfeed Centerless Grinder uses computer controls to grind both hard and soft materials including catheters, medical guidewires, and spinal cord stimulators. Inside the compact footprint is a 7HP main spindle motor powering an 8.625" wide work wheel combining to remove more material faster, and with better surface finishes, than similar machines with narrower grinding wheels. The TF-9D is designed to enhance productivity through a simple control interface and automation integration. Common applications include guidewires, catheter bodies, spinal cord stimulators, pins, and other engineered materials.



### KEY FEATURES

- Grinds both hard and soft materials.
- Intuitive touch screen HMI allows an unskilled operator to run multiple high-precision machines simultaneously.
- Closed-loop control via linear scale on the movable slide.
- Interface to measurement instruments allows for automatic size compensation.
- Independent upper and lower slide positioning.
- A single operator can change the work wheel in less than 15 minutes.
- Automatic infeed for forming small shaped parts.
- Remote connectivity simplifies troubleshooting and maintenance.
- Built-in infeed and throughfeed cycles with programmable inputs and positioning.
- Available stationery and removable wheel dressers.
- Full turnkey automation integration available including feeders, robots, pick/place gantry, gauging, cleaning, and sorting assemblies.
- Glebar P4K Gauging System available to feed diameter measurements to the control system for automatic size compensation.

### SPECIFICATIONS

**Diameter Accuracy:** 0.00005" (1.3  $\mu$ m)

**Roundness:** 0.00005" (1.3  $\mu$ m)

**Grinding Diameter Capacity:** Min 0.002" (0.05mm) - Max 2.5" (63.5mm)

**Grinding Length:** Infeed 8" (200mm), Thrufeed - no limit

**Work Wheel Power:** 7.5HP (5.6kW), 10HP (7.5kW), 15HP (11kW)

**Work Wheel Diameter:** 9" (229mm)

**Work Wheel Width:** 8.625" (219mm)

**Work Wheel RPM:** 2,400

**Regulating Wheel Diameter:** 4" (100mm)

**Regulating Wheel RPM:** 10-400

**Machine Footprint:** 58" x 31" x 71" (147 x 79 x 180cm)

**Machine Weight:** 2,085 lbs (with granite bed)

**Resolution:** 0.1  $\mu$ m (0.000004")

**Power:** 480VAC, 60Hz, 40A (15HP), 25A (7.5HP)

**Air:** 4CFM @ 80PSI

**Machine Bed:** 6" Thick Granite (also available on cast iron)



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