TF-9DHD

Centerless Thrufeed/Infeed Micro Grinder

The computer controlled TF-9DHD Infeed/Thrufeed Micro Grinder grinds both hard and soft materials, specializing in parts from 1” in diameter down to .002”. The TF-9DHD is utilized to grind catheter, guidewires, spinal chord stimulators, pins, bushings, PTFE, plastics, ceramics and other engineered materials.

The TF-9DHD is an automatic infeed/thrufeed centerless micro grinder. Small in footprint, very capable grinder. Utilizing up to an 8-5/8” (219mm) wide work wheel, it is able to remove more material, faster and with better surface finishes than similar machines with narrower grinding wheels. This machine is superior to competing machines in the same class due to the fact that it can run a 15HP main spindle motor in such a small package. This means more material can be removed per pass than larger machines.

An automated version of the manual TF-9BHD machine, the DHD includes precision bearings on the work head assembly as well as 0.1 micron glass scale feedback for closed loop position control. We fully customize the HMI interface to adapt to installed inspection systems, automation with the sole purpose of making the machine simple to operate.

Stable Granite Bed
The TF-9DHD is built on a rigid 2,000 pound granite bed for superior thermal stability and vibration control.

IndependentSlides for Quick Setup
The hard chrome plated cast iron slides are dovetail ground to provide superior rigidity when positioning the regulating wheel. Both top and bottom slides can be positioned independently reducing setup times dramatically.

Workhead Assembly
A 15HP motor drives the 9” (228 mm) diameter x 8-5/8” (219 mm) wide grinding wheel mounted on a twin-grip super precision spindle. The workhead assembly design allows a single operator to replace the grinding wheel in under 15 minutes.

HMI Controls and Custom Software
A simple HMI touch screen can be tailored to address your process. We fully customize the interface to adapt to installed inspection systems, automation with the sole purpose of making the machine simple to operate.

Remote Connectivity
Remote connectivity simplifies troubleshooting and maintenance.

THE GLEBAR ADVANTAGE: The TF-9DHD was built with the operator in mind, with reduced setups and a fully customizable interface geared to enhance productivity through the use of automation. Independent top and bottom slide controls, simple work rest blade adjustment, and a motor up to 15HP driving a precision twin grip spindle, offer high productivity and precision in a small package.
KEY FEATURES
Industrial touch screen workstation, NEMA 4 rated
Closed loop control via linear scale on the movable slide
Operator-friendly control
Automatic size compensation capability
Automatic infeed for forming small shaped parts
Super precision regulating housing
Available stationary and removable wheel dressers
Built-in infeed and thrufeed cycles with programmable inputs and positioning

SPECIFICATIONS
Diameter accuracy: 0.00005” (1.3µm)
Roundness: 0.00005” (1.3µm)
Grinding diameter: Min 0.002” (0.05mm), Max 2.5” (63.5mm)
Grinding length: Infeed 8” (200mm), Thrufeed - no limit
Work wheel spindle power: 7.5HP (5.6kW), 10HP (7.5kW), or 15HP (11kW)
Work wheel diameter: 9” (229mm)
Work wheel length: 8-5/8” (219mm)
Work wheel RPM: 2400
Regulating wheel diameter: 4” (100mm)