THE GLEBAR ADVANTAGE: For position feedback, other CNC dressers often employ rotary encoders. In such a setup, the servomotor shaft position is reported by the encoder, and this plus the pitch of the motion screw is used to calculate slide position. Even with a precision ballscrew, there is error between this calculated position and the actual slide position -- especially during direction changes -- due to backlash, friction, compliance, etc. As the mechanics wear, the position error gets progressively worse. Dressing a circular contour with only rotary feedback is a nightmare, since doing so requires coordinated motion with multiple direction changes. The DM-9CNC uses linear encoders attached directly to the slide, ensuring accurate positioning under all conditions so the resulting contour is always true to form.

\[ CNC \text{ Wheel Dressing Machine} \]

The DM-9CNC is a standalone machine, available for both 9" and 10" work wheels, that CNC dresses precision contours in vitrified grinding wheels.

The roll dress spindle on the DM-9CNC is extremely rigid and precise, with runout less than 0.00005" (1.3 µm).

Powered by a brushless servo motor, it offers high torque and closed-loop velocity control at up to 15,000 RPM.

**Stable Granite Bed and HMI Controls**

The DM-9CNC is built on a granite bed for optimal thermal stability and vibration control. The ability to dress wheels offline increases efficiency and minimizes downtime. Having wheels ready for change-over allows the grinder to be used only for its intended purpose -- making parts. Wheel contour can be generated in CAD or entered directly as linear and circular positions on the large 15” touchscreen interface. Dresser path, wheel shape, and dresser position are all rendered in real time on the screen.

**Dresser Features**

The two servo-driven slides feature 0.1 µm glass scale feedback for accurate positioning. Hard-chromed dovetail ways with Turcite gib deliver ultra smooth motion and long life. The roll dress spindle on the DM-9CNC is extremely rigid and precise, with runout less than 0.00005" (1.3 µm). The DM-9CNC uses linear encoders attached directly to the slide, ensuring accurate positioning under all conditions so the resulting contour is always true to form.

**Seamless Integration with CAD/CAM Software**

The DM-9CNC with its advanced control allows for seamless integration with CAD/CAM software packages.
FEATURES

✓ Easy operation, wheel removal and setup
✓ Granite base, for thermal and mechanical stability.
✓ 0.1 µm (0.000004”) resolution linear encoder and servo motors on both slides (X and Y)
✓ G-code support for seamless integration with CAD/CAM software packages
✓ Diamond roll dress or single point diamond
✓ Dress verification assembly cuts coupon to check wheel shape before wheel removal
✓ Precision bearings on both ends of work wheel
✓ Simple and easy to use 15” touchscreen interface
✓ Multi-level password access
✓ Variable speed drive

SPECIFICATIONS

- Work Wheel Diameter : 9” (229mm)
- Work Wheel Power : 2HP (1.5kW)
- Work Wheel RPM : 500-1725
- Work Wheel Length : 10-1/8” (257mm)
- Machine Weight : 3000 lbs.
- Roll Dress RPM : 1000-15,000

The two servo-driven slides feature 0.1 µm glass scale feedback for accurate positioning

Seamless Integration with CAD/CAM Software

Glebar is an ISO 9001 certified company

Tel. 201-337-1500
info@glebar.com
www.glebar.com