

RUSH Machinery

The Tool Grinding Specialists

Truing and Dressing Machines



Model FC-250W with
ExVision System

Simple to operate, highly accurate and cost effective.

Ease and efficiency in truing and dressing flats, angles, and radii on diamond and CBN single and multiple wheel packs.

RUSH Machinery

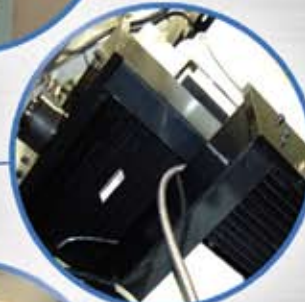
The Tool Grinding Specialists



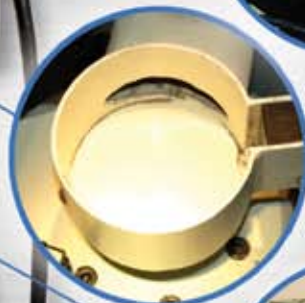
Optional AZP (Automatic Zoom Positioning). Computer controlled precision ball screw linear slides allow accurate positioning of camera over any selected viewing area.



15x, 30x, and 60x power zoom lens for an overall view or high precision dressing. Higher magnification is available as an option.



Fully enclosed linear slides with ball screws on all axes.



Large diameter combination dust collector cup and light reflector.

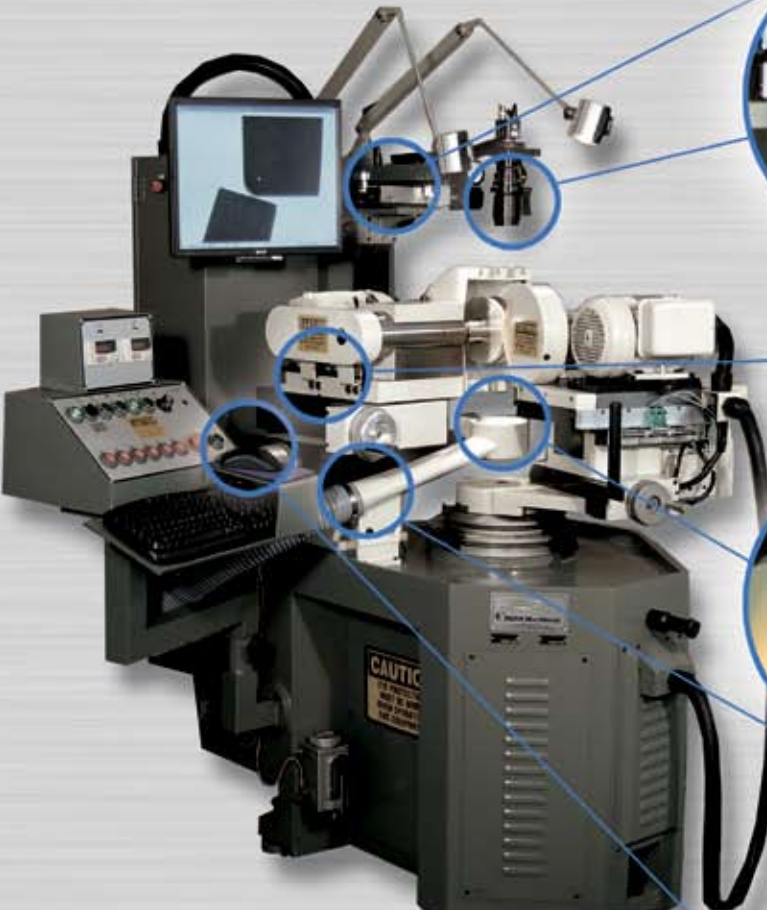


Optional high performance dust collector connects here.



All controls conveniently located for the operator.

Heavy cast iron base minimizes vibration. Two pairs of large diameter angular contact bearings in pivot axis for smooth, solid radius forming.

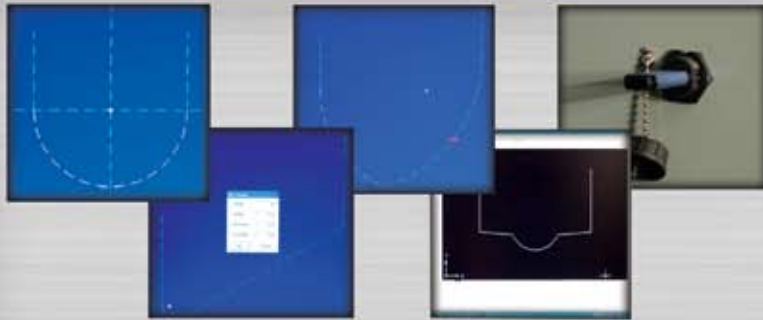


Model FC-250W

Truing & Dressing Machine

The FC-250W can dress single wheels or multiple-wheel packs. Dress both the diameter and the inside of the wheels without taking the wheel packs apart.

A wide selection of quick change spindle nose adapters are available to match your wheel arbors.

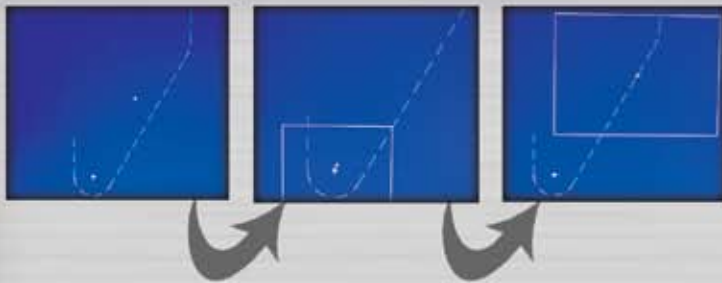


The ExVision software package contains drawing templates for many of the common wheel shapes in use today.

Drawings can also be easily imported from CAD via an external USB port, or through the fully network capable on-board PC.

A larger machine, the Model FC-700W, is available for wheels up to 28" (700mm) in diameter.

The FC-250EX features a full enclosure, PLC control and servos for automatic infeed and pivoting of truing wheel axes.



The optional AZP (Automatic Zoom Positioning) system is recommended when performing high tolerance work or when working with complex forms and radii larger than 0.25" (6.3mm).

One keystroke and a click of the mouse automatically adjusts the power zoom level, relative drawing size and positions the camera directly over the work area to be viewed.

Specifications:

- Diamond/CBN wheel spindle: HSK50 or #40 taper standard (Others Available)
- Max. diameter of Diamond/CBN wheel: 14" (355mm)
- Max. width of Diamond/CBN wheel: 3" (76mm)
- Max. wheel pack length: 8" (203mm) OAL
- Diamond/CBN wheel speed: 100-1000 rpm (infinitely variable & reversible)
- Diamond/CBN wheel motor: 2HP (1.5Kw)
- Diamond/CBN wheel X axis travel: 8-3/4" (222mm)
- Diamond/CBN wheel Y axis travel: 5-1/2" (140mm)
- Max. Truing/dressing wheel dimensions: 8" (200mm) x 3/4" (19mm) with 1-1/4" bore
- Truing/dressing wheel speed: 200-2000 rpm (infinitely variable)
- Truing/dressing wheel oscillation frequency: 0-50 strokes/minute (infinitely variable)
- Truing/dressing wheel oscillation stroke: 0 to 3-1/2" (89mm)
- Truing/dressing wheel motor: 1HP (.75Kw)
- Truing/dressing wheel infeed travel: 4" (100mm)
- 220v, 3-phase, 50/60hz electrical system

Standard Features:

- High resolution video camera with power zoom lens and preset magnifications (15x, 30x, 60x)
- Video overlay (CAD generated drawing overlaid on live video image)
- Onboard PC with Windows operating system and 19" flat screen monitor
- ExVision software program
- Optical linear scales with digital readout on monitor for X and Y axes
- All slides have linear ways and ball screws, and are fully enclosed
- Quick-change wheel spindle with HSK50 or #40 taper. Other spindle types are available.
- Pivoting truing wheel head. Allows easy truing of the LH side of smaller diameter wheels.
- One-day installation, setup and training.
- One-year limited warranty

Optional equipment:

- AZP (Automatic Zoom Positioning) computer controlled 2-axis slides for camera positioning
- Automated version with PLC and servo control for truing wheel infeed and pivot axes
- High magnification power zoom lens (30x, 60x, 120x)
- Digital angle reader for pivot axis with .01 degree increments
- Quick-change spindle adapters for most CNC and manual grinders. *Specials quoted upon request*
- Dust collection system. Industrial duty, quiet, low maintenance, with 3/4HP motor
- Special or additional wheel spindles

Rush Machinery is a leading supplier of tool grinding equipment and has been committed to quality, service and innovation since 1983.

Contact us to receive a demo DVD with the complete Rush Machinery line of machines and fixtures.

Go to www.rushmachinery.com to view information on Wheel Truing and Dressing Machines, Oil Filtration Systems, Carbide Rod Cut-Off and Chamfer Machines, PCD Grinders and other tool grinding equipment.