

RushMachinery

Grind better.

Movable
Operator
Console

Status Light Tower



RushVision
with AutoView

Full Enclosure

PLC Controls

Setup Pendant

Heavy Cast
Iron Base

Model FC-350EX

Wheel Truing and Dressing Machine

High tolerance truing and dressing has never been easier.

The Rush Wheel Truing and Dressing Machines are designed for the truing and dressing of flats, angles and radii on diamond and CBN single wheels and multiple wheel packs. They are simple to operate, highly accurate, and cost effective. The custom-ized, easy to use, video software makes high-tolerance truing and dressing easier than ever before.

RushVision is complete with drawing templates for most common wheel shapes. Drawings can also be easily imported from CAD via external USB port or through the networkable industrial PC.

RushVision with AutoView

RushVision with AutoView allows high precision, high tolerance work and truing complex forms and radii up to 2" (50 mm).

Other Models: The FC-350W can dress single wheels or multiple wheel packs. Dress both the diameter and the inside of the wheels without taking the wheel packs apart.

Larger machines (Models FC-700W and FC-700EX) are available for wheels up to 42" (1070 mm) in diameter.



Rush Machinery provides innovative, practical, and top quality products that save time and money, and improve the way people grind tools.

Applications

- Automated Truing/Dressing of flats, angles, convex and concave radii, and forms on diamond and CBN wheels. For individual and multiple wheel packs.

Diamond/CBN Wheel

- Maximum Diameter: 14" (350 mm) standard;
- Maximum Width: 3" (76 mm)
- Maximum Wheel Pack Length: 8" (203 mm) OAL
- Spindle Type Options: #40 taper, HSK50 A/C, HSK50 E, or customer specified
- Spindle Speeds: 100-1000 rpm (infinitely variable & reversible)
- Spindle Motor Power: 2 hp (1.5 kw)
- X & Y Slides: Fully enclosed linear ways with ball screws and optical linear scales
- Travels: X axis: 8-3/4" (222 mm);
Y axis: 5-1/2" (140 mm)

Truing/Dressing Wheel

- Maximum Dimensions: 8" (200 mm) x 3/4" (19 mm) x 1-1/4" (31.75 mm) bore
- Spindle Speeds: 200-2000 rpm (infinitely variable)
- Spindle Motor Power: 1 hp (0.75 kw)
- Head Pivot: 0 to 20 degrees, relative to oscillation slide- allows truing of smaller diameter wheels
- Oscillation Drive: PLC controlled servomotor
- Oscillation Slide: Fully enclosed linear ways with ball screw
- Oscillation Frequency: 0-30 strokes/min. (infinitely variable)
- Oscillation Stroke: 0 to 3-1/2" (89 mm), infinitely variable
- Automatic Infeed: PLC controlled servomotor
- Infeed Slide: Fully enclosed linear ways with ball screw and 3" (75 mm) travel
- Work head Radial Rotation: PLC controlled servomotor for position and automatic swing

RushVision

- AutoView (standard): Computer controlled 2-axis slides for camera positioning. Moves the field of view within a 4" x 4" (100 mm x 100 mm) area.
- Magnification: 15x, 30x, 60x, and 90x (digital) power zoom (standard).
- Monitor: High-resolution flat-screen.
- Digital Readout: Displayed on monitor in .0001"/.001 mm increments for X & Y axis and .01 degrees increments for C axis.
- Software: RushVision program allows importing of CAD drawings in .dxf file format via Real DWG®.

Weights

- Net: 2,500 lbs. (1140 kg)
- Crated: 2,800 lbs. (1270 kg)

Electrical

- 200-240v, 50/60 hz, 40A

Optional Equipment

- Higher magnification power zoom lens (30x, 60x, 120x, and 180x (digital)).
- Dust collector with 3/4 HP motor, controlled by the operator panel. Industrial duty, quiet, with low maintenance cyclonic separator and secondary fiberglass filter.
- Adapters for cartridge-style spindles.
- Special taper or additional diamond/CBN wheel spindles.
- Mist coolant system- air operated and controlled by operator panel. For larger and metal-bond wheels.
- NFPA 79 compliance

RushMachinery

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