

FC-250EX

Diamond / CBN Wheel Truing & Dressing Machine (with RushVison System)

Machine specifications:

Diamond / CBN Grinding wheel:

• Spindle form	HSK50 (Others available)
• Maximum diameter	ø250 mm
• Minimum diameter	ø50 mm
• Maximum width	70 mm
• RPM range	100 to 1000 RPM, infinitely variable
• Motor	1.5 Kw (2HP)
• X-axis stroke	160 mm
• Y-axis stroke	130 mm
• Form radius range	ø0.1 ~ 60 mm

Dressing wheel:

• Dimensions	ø180 x 13 x ø31.75 mm
• RPM range	200 to 2000 RPM, infinitely variable
• Oscillating frequency	30 to 60 cycles, infinitely variable
• Oscillating stroke	0 to 70 mm, infinitely variable
• Motor	0.75 kw (1HP)

Standard accessories:

1. High resolution CCD camera system with 3 magnification levels (15x, 30x, 60x).
2. RushVision Camera system, including computer, 22" LCD monitor.
3. Optical linear scale device (0.001mm increments) for X, Y axes
4. Optical linear scale device (0.05° increments) for C axis
5. Automatic lubrication system.
6. Two LED Light (12V)

Options:

1. Dust collection system
2. Coolant system, 30 Liter water tank.
3. Coolant system 100 Liters bag type with filter paper.
4. SIC grinding wheel dresser.
5. PLC controlled auto oscillation (servo motor controlled)
6. Full enclosure
7. Adapters for any grinding machine arbor from.

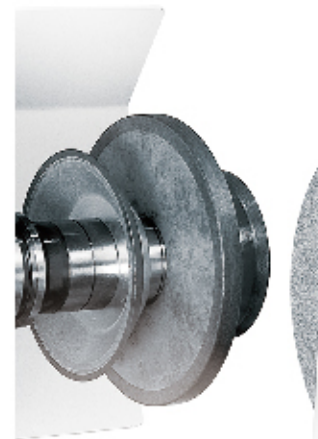
FARMAN

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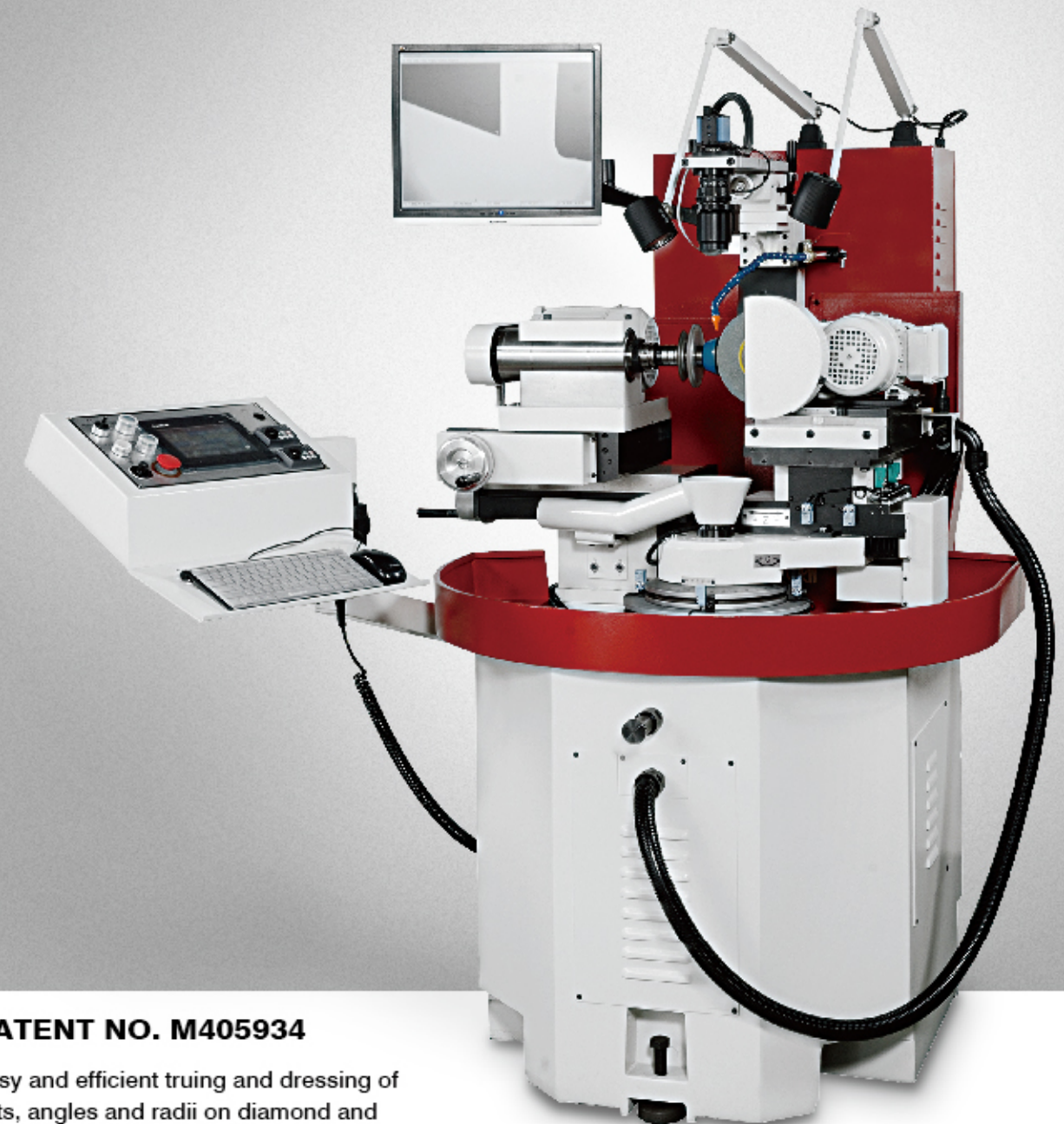
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DIAMOND / CBN WHEEL TRUING AND DRESSING MACHINE

FC-250EX



PATENT NO. M405934

Easy and efficient truing and dressing of flats, angles and radii on diamond and CBN single wheels and multiple wheel packs.

Simple to operate, highly precise and cost effective.

FARMAN MACHINERY IND. CO., LTD.



FC-250EX

DIAMOND / CBN WHEEL TRUING AND DRESSING MACHINE



- One piece cast-iron base provides extra rigidity and minimal vibration.
- All axes use precision linear slides & ball screws.
- One-shot lubrication to all moving parts.
- Independently controlled, variable-speed spindles for precision tuning of the truing process.
- 22" LCD monitor
- Rigid swivel spindle has 2 sets of precision angular contact bearings.

The FC-250EX comes standard with an HSK-50 spindle.

Most other types of spindles can also be supplied as standard equipment.

- Control panel with touch screen and user friendly interface.
- Auto-Infeed is controlled by a servo motor. The total infeed and micro infeed values can set for each cycle or, for several oscillation cycles. (Min. increment 0.001mm)
- Auto swivel is controlled by a servo-motor and dedicated reducer. Swivel angle, speed, infeed and swivel control can be by a program as well.



• Full enclosure



• Automatic lubrication system



• HMI operation panel and hand-wheel.

RushVision System

The FC-250EX Diamond /CBN wheel truing and dressing machine come with the RushVision system. Various wheel types, including flats, radii, angles and wheel profile forms, can be used with this system and shown on monitor. The profile shown on the monitor is calibrated to the preset magnification levels, so that the profile is accurate to the size of the wheel shown. It is similar to a digital comparator.

All commands are done on the computer. If the form type wanted is not included within the RushVision software, the operator can use the included CAD capability to draw the profile, or an externally created CAD profile can be imported as a .DWG or .DXF file into the computer. All operations are very easy. Use RushVision system to dress standard or special wheel forms, just input wheel parameters and RushVSION displays the form on the monitor in real time. Simply dress the wheel to the displayed profile line, and the wheel is ready to be used in the grinder.

The RushVision system includes standard drill forms for wheels, including diameter, flute form etc., Just input each drill parameter and RushVision shows the wheel form shape on the monitor.



• RushVision standard camera

