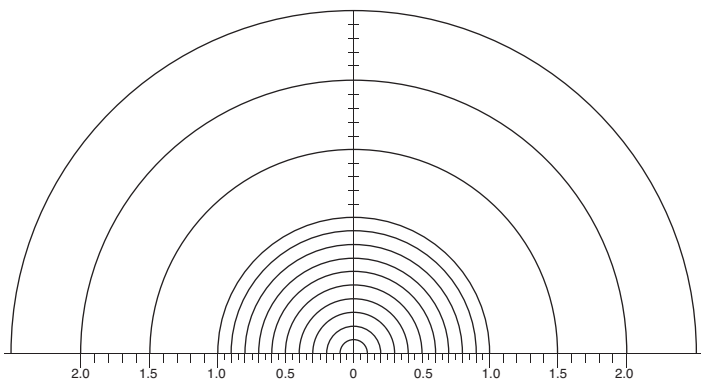


Design Features:

- One-piece cast iron base provides extra rigidity and minimize vibration.
- The cross slide and longitudinal slide is mounted with SCHNEEBERGER type N and O heavy duty & precision linear slide guide for its accuracy and life.
- Grinding the primary cuttion edge. Tip radius and secondary cutting edge without set up changes.
- Heavy duty swivel table pivots on 4 pieces precision angular contact bearing.
- The oscillation is adjustable in position, stroke and frequency.



PRECISION SCALE

- C.C.D camera with LCD monitor and precision scale for easy set up & inspection during grinding.
- Monitor scope with zoom system for adjustable from 15~120 magnification even 0.02 radius can be grinding and inspection.



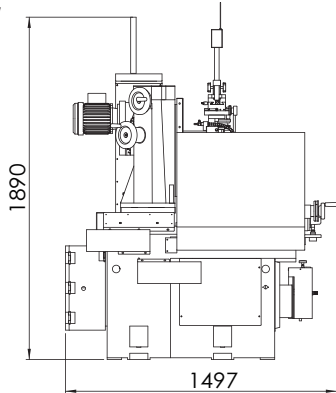
Standard Accessories:

- Camera system with 17" monitor, manually adjustable zoom with a 15x to 120x magnification range.
- Optical linear scale for infeed axis (0.001mm increments).
- Rotary encoder for swivel-axis (0.05° rotary encoder accuracy).
- Variable speed spindle (0 to 3600 RPM).
- Electronic oiler.
- Quick clamping fixture.
- Tool stand (1", 20mm, 5/8", 1/2").
- Two LED Lights (12V).
- Water-based coolant system, 30 Liter tank.
- Splash protection shield with magnetic base.
- Stainless steel under machine drip pan.

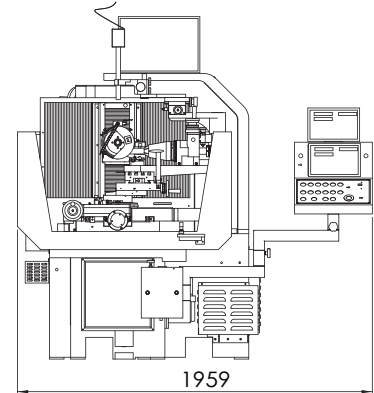
Options: :

- RushVision System has a max. magnification of 200x and includes a computer, 22" monitor, keyboard, mouse, CAD files of wheel profiles.
- Universal worktable.
- Round tool grinding attachment with collet (Comes with one set of ER 40 collets, Ø4~Ø26 mm).
- 100 Liters bag type filter.
- Negative angle fixture.
- CBN Chamfering machine.
- Micro adjusted dividing BT40 body (with extension plate and tail support).
- HSK Spindle adapter, BT40 to HSK50, 40, 32.
- PNER Spindle adapter, BT40/50 to PNER 50 adapter, PNER 50 collet ø6~36 (single specification).

Drawing : • Front view



• Side View



Unit : mm

Machine Specification:

Tip Radius	ø0~80 mm
Spindle speed	0~3600 RPM 50HZ
Grinding wheel	Size 150 x 40 x 40 mm
Grinding pressure	0~450 N
Oscillation frequency	0~45 times/min (adjustable)
Oscillation stroke	0~50 mm (adjustable)
Grinding wheel height adjustment	130 mm
Grinding wheel stroke range	285 mm (adjustable)
Inclination angles	-3°~25°
Cross table swivel	270°
Cross table size	210 x 160 mm x 4T slots
Worktable infeed division	0.001 mm / 1 division
Motor power	2.2 kw
Machine dimensions	1800 x 1600 x 1800 mm
Machine weight	1500 KGS

• Specifications subject to change without notice.



FARMAN MACHINERY IND. CO., LTD.

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FC-300D

PCD & PCBN
TOOL GRINDING MACHINE



FC-300D



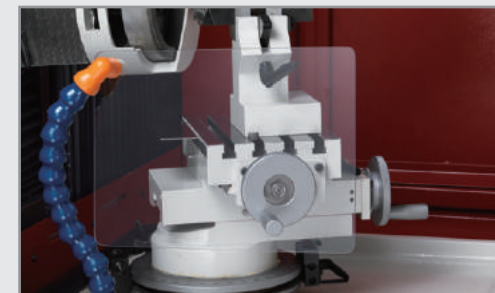
SETTING, GRINDING
AND INSPECTION
ALL IN ONE CLAMPING

FARMAN MACHINERY IND. CO., LTD.



FC-300D

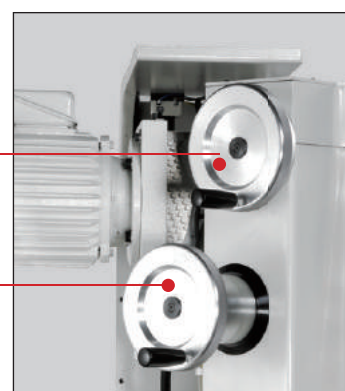
PCD & PCBN TOOL GRINDING MACHINE



Setting, Grinding and Inspection All in one clamping.

Grinding wheel up/down adjustment handwheel

Grinding wheel inclination adjustment handwheel



Hand button for rapid infeed and feed back

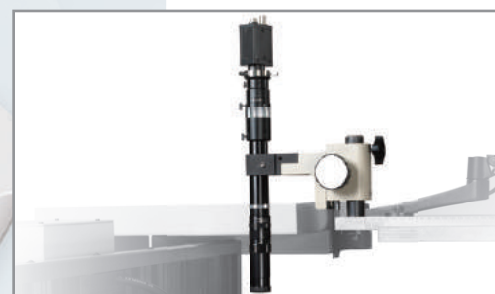
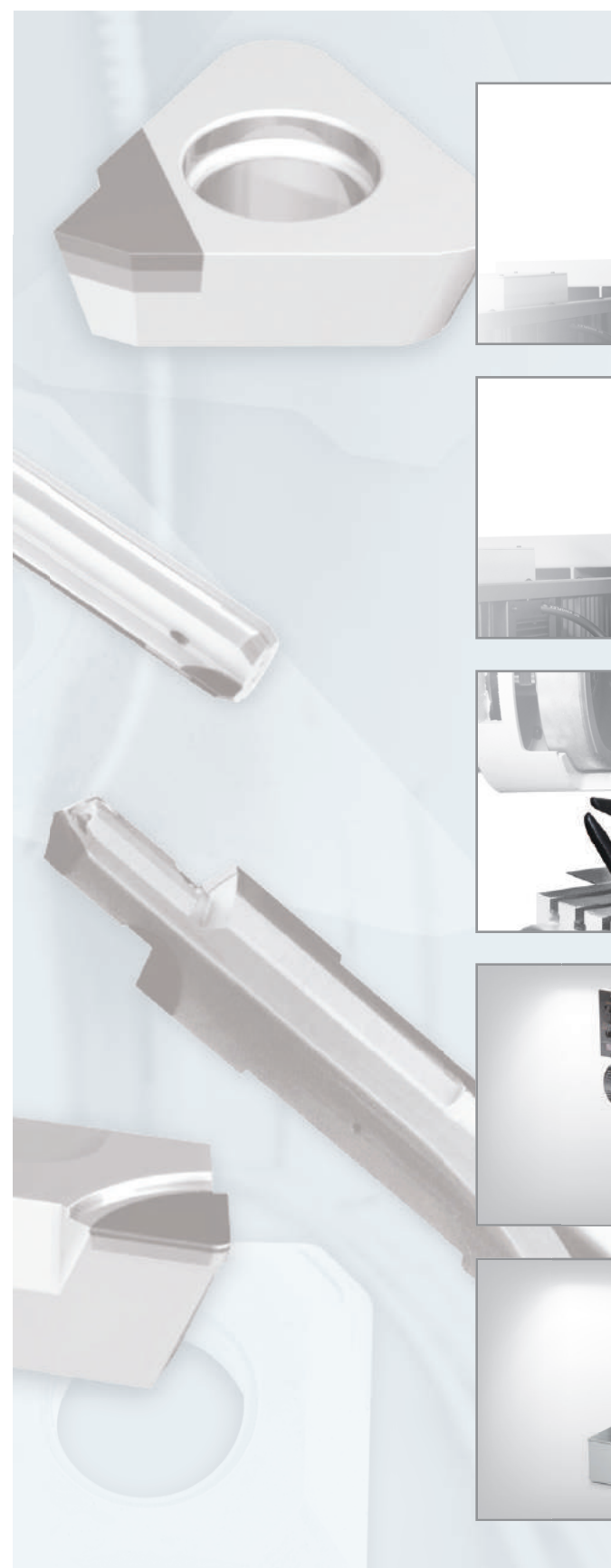
Quick clamping fixture

Swivel table with electronic brake system

Wheel position control by motor

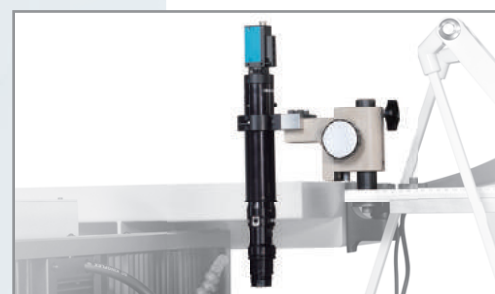
Oscillation stroke control by motor

Table infeed handwheel (0.001 mm increments)



Standard Camera System

Includes: 2/3" CCD camera, 17" monitor, and has manually adjustable magnification range 15x-120x.



Optional Camera with Computer

Has a maximum magnification of 200x, and includes a computer, 22" monitor, keyboard, mouse, CAD file program that can create, or download custom CAD files (.dxf or .dwg).



Optional Universal Clamping Fixture

Rotates 360 degree, X and Y straight-axis can be angled +/- 20 degrees. Suitable for special tools, such as, conical relief or cylindrical relief.



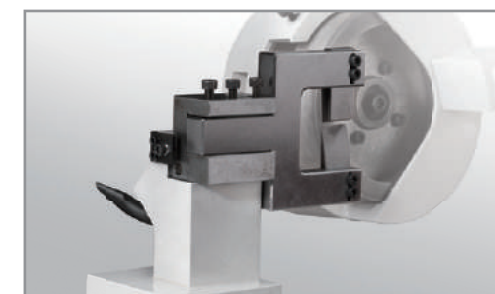
Optional Round Tool Grinding Attachment

For round tools. Comes with one set of ER collets (Ø4~Ø26 mm).



Optional 100 Liters Filter

Comes with one roll of filter paper for filtering to 100 micron filtration.



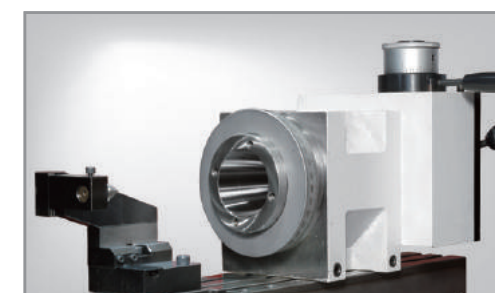
Optional Negative Angle Fixture

For Model FC-200D tool grinding machine. Use for CBN insert chamfering.



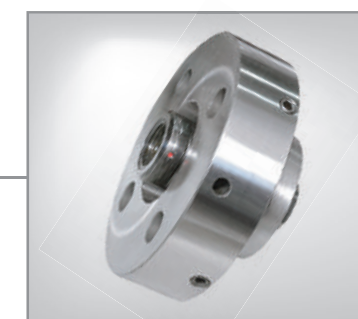
CBN Chamfering Machine

Optional machine for CBN insert chamfering.



Optional Micro Adjusted Dividing

BT40 body with extension plate and tail stock support.



Optional HSK Spindle Adapter

BT40 body micro adjusted dividing, adapted to HSK50, 40, 32.



Optional PNER Spindle Adapter

Adapt to round bar clamping interface. PNER 50 collet (Ø6~Ø36 mm), 4D-3 micron accuracy.