



PRECISION MACHINE TOOL

An ISO 9001:2008 Certified Company by Bureau Veritas



Manufacturers & Exporter of all type of high Precision Grinding Machines

AN ISO 9001: 2015 CERTIFIED CO.

SINCE: 1993



AUTOMATIC PLC INTERNAL (BORE) GRINDING MACHINE

❖ OTHER PRODUCTS:

- CNC Cylindrical Grinding Machine.
- Hydraulic Cylindrical Grinding Machine (ABC- 300 mm to ABC- 2000 mm).
- CNC / PLC / Automatic Internal (Bore) Grinding Machine.
- Hydraulic Bore Grinding Machine.
- Centerless Grinding Machine.
- SPM Grinding Machine.
- Surface Grinding Machine.
- Automatic Plunge Grinding Machine having in- process gauge.
- Rubber, Coat and Apron Grinding Machine.

MACHINE IS TESTED AS PER IS: 2368 AND ISO: 2433



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SINGLE AXIS PLC INTERNAL BORE GRINDING MACHINE

Technical Specification of Model: - PMTI/400/180/PLC/ID

❖ CAPACITY;

- Swing Over Table
- Weight of Job on Chucking Application = 350 mm
- Internal Grinding Diameter (Min. – Max.) = 50 Kg
- Grinding Length (Min. – Max.) = 6 – 80 mm
- Job Holding Length = 5 – 100 mm
- Job Holding Length = 200 mm

❖ GENERAL:

- Electrical System = Three Phase
- Voltage System = 380 VAC
- Frequency = 50 Hz
- Voltage Variation +/- 5%
- Frequency Variation +/- 5%

❖ OSCILLATION TABLE :

- Table Speed = 5 m/min
- Table Stroke = 400 mm
- Automatic Travel = 0.01 mm

❖ FEEDING TABLE :

- Table Speed = 5m/min
- Auto Traverse Feed on Dia. = 0.002 – 0.1 mm/ Stroke
- Manual Hand Feed on Dia. with Auto Traverse = 0.002 mm/div.

❖ WORK HEAD :

- Spindle Outer Nose = A2-4
- Spindle Inner Taper Bore = MT-4
- Swivel Angle = ± 7 deg.

❖ MOTOR POWER :

- Work Head Motor = 1.5 KW
- Spindle Head Motor = 2.25 KW
- Hydraulic system Motor = 700 W
- Coolant = 200 W
- Central Lubrication = 200 W

❖ FEATURES;

- PLC/NC Controlled with English display.
- Belt driven spindle having 18000 Rpm
- Automatic Lubrication System for Ball Screw and Guide ways.
- 80 Ltrs Coolant Tank with pump, piping and valves
- Coolant Flow from Work Spindle end.
- Suitable for tool room work and production also.
- Backlight in Operation Panel
- Lighting System LED type, IP65
- Machine accuracy as per ISO 2407:1997 /AMD 1:2016
- Roll dressing system for profile dressing
- Cross roller guide ways for feeding axis for precision movement.
- Single one piece graded cast iron casting bed and movable slide ways.

❖ ACCESSORIES

- 3 jaws true chuck with precision setting, Dia. 160 mm with flange and adapter
- Diamond for dresser (Single point) for Internal Wheel 0.5 Crt
- Belt driven spindle with pulley and wheel arbor 2 nos., spindle inbuilt with p4 paired bearing, Nose suitable for ER-11 Collets and straight wheel arbor.
- ER-11 Collets with holder, hole range 3 mm to 10 mm (1mm step)
- CBN Grinding Wheel, Shank Dia. 4 mm, Wheel Size: Dia. 5.5 mm x 20 mm length
- Wheel Arbor suitable to grinding length upto 80 mm and for wheel hole 6 mm, 10 mm, 12 mm (3 Nos)
- Complete Tool Spanner set with tool box for machine maintenance

STD. & ADDITIONAL ACCESSORIES WILL BE PROVIDED ON CUSTOMER DEMAND

“PREMATO” can supply machines tailor-made to suit specific requirement of the user”