

CNC EXTERNAL CYLINDRICAL GRINDER



MODEL e GRIND 200

Applications



YOUR IDEAL CHOICE FOR CYLINDRICAL GRINDERS

e GRIND 200

High Production Three Axis Servo controlled cylindrical OD Grinding Machine designed for grinding medium to large production batches of small parts in plunge/traverse operations.

SALIENT FEATURES

- One piece Cast Iron Box Structure for improved Static, Dynamic & thermal characteristics.
- Wheel Spindle with Hydrodynamic Bearings for better Dynamic stiffness & Damping. Precision Ball Bearings spindle also available as option.
- Cartridge type modular wheel spindle for easy maintenance.
- Integrated Electrical cabinet and control panel to reduce the commissioning time – Plug & Play Solution.
- Full Cover for safety of operator and environment.
- TPM Features.
- Automation with Gantry or Robot/s available as options.
- Dressing system with Diamond disc or Diamond Roll available as options.

WHEEL HEAD

- Straight & Angular wheel configuration.
- 45m/s grinding wheel surface speed for High Production & efficient Grinding.

IN-FEED SLIDE (X-AXIS)

- Linear Bearing Guide ways for stick-slip free motion, high response & Accuracy. (up to 0.1 μ)
- AC servo motor coupled with Ball screw for axis movement.

TRAVERSE SLIDE (Z-AXIS)

- Swiss scrapped V& Flat Guide ways for stick-slip free motion & longer life.
- AC servo motor coupled with Ball screw for axis movement.

WORK HEAD

- Timer Belt and pulley drive system for efficient transmission.
- Circularity on standard test piece < 1.5μm. (less than 1 μ available as option)
- High Precision C-axis workhead available as option for form grinding.
- Direct coupled Servo workhead available as option.

TAIL STOCK

- Clearance adjustment facility for quill movement.
- Micro taper correction & hydraulic actuation facility available as options.

CNC SYSTEM

- Servo control through Fanuc/Siemens/Mitsubishi CNC.

OPTIONAL ACCESSORIES

- In-Process Gauging System for plain and interrupted surfaces.
- Automatic Dynamic Balancing system for grinding wheel.
- Automation with Gantry or Robot/s.
- Dressing system with (Diamond Roll).
- Length Positioning Device (Flagging) - Active or Passive type.
- Gap Eliminator & Crash Detection through Acoustic sensor.
- Glass Scales for linear axes.



Marketed and Serviced by :

Micromatic

- | | | | | |
|---|--|---|---|---|
| • AURANGABAD: Ph: 0240-2552309
E-mail: mmtaur@acemicromatic.com | • CHENNAI: Ph: 044-40440700
Email: mmtche@acemicromatic.com | • GURGAON: Ph: 0124-4745500
Email: mmtdel@acemicromatic.com | • KOLKATA: Ph: 033-23648781
Email: mmtcal@acemicromatic.com | • PUNE: Ph: 020-27479661
Email: mmtpune@acemicromatic.com |
| • BANGALORE: Ph: 080-40200555
Email: mmtblr@acemicromatic.com | • COIMBATORE: Ph: 0422-4506183
Email: mmtcbe@acemicromatic.com | • KOLHAPUR: Ph: 98906 23202
Email: rafikm@acemicromatic.com | • MUMBAI: Ph: 022-26862017
Email: mmtbom@acemicromatic.com | |

Service Centers at :

- AHMEDABAD • AMBATUR • BELGAUM • BOMMASANDRA • CHAKKAN • DELHI • FARIDABAD • HYDERABAD • INDORE • JAMSHEDPUR • LUDHIANA • NASIK
• RAJKOT • RANIPET • RUDRAPUR • SRI PERAMBUTUR • TAMBARAM • THANE • TRICHY

E-mail: info@micromaticgrinding.com

Website: www.micromaticgrinding.com

experts speak:grindingtechnology.free-forum.net

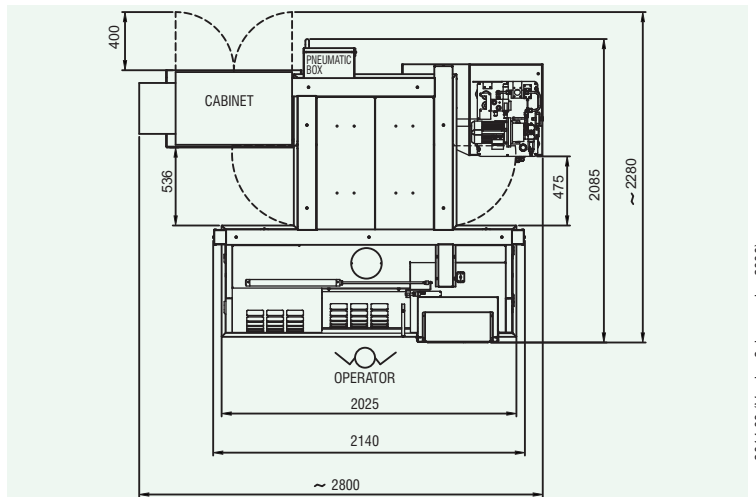
MACHINE SPECIFICATION OF e GRIND 200

DESCRIPTION	UNIT	VALUES
CAPACITY		
Swing Diameter	mm	200
Grinding Diameter	mm	100
ABC / Max grinding length	mm	250
Max weight of job between centers	kg	30
CARRIAGE (X AXIS)		
Slide stroke	mm	160
Rapid feed rate(On Dia)	m/min	10
Minimum increment / Pulse (Feed Back Resolution)	mm	0.0001
Feed servomotor torque	Nm	8
Angle of approach	Deg	0 / 30
TABLE (Z AXIS)		
Table stroke	m/min	420
Rapid feed rate	m/min	10
Minimum Increment / Pulse	mm	0.0001
Feed servomotor torque	Nm	8
WHEEL HEAD ASSEMBLY		
Grinding wheel size (ODxWidthxD)	mm	450 x 50 x 203.2
Spindle motor power(Induction type)	kW	5.5
Peripheral (surface) speed	m/sec	45
Spindle Bearing	Type	Hydrodynamic (Ball Bearing)
WORK HEAD		
Taper bore	No	MT4
Spindle speed (AC Servo Motor) {infinitely variable}	rpm	100-800
Spindle motor torque	Nm	8
Dresser	Type	Blade (Diamond Disc/Roll)
TAILSTOCK		
Centre taper	No.	MT3
Quill travel	mm	25 (40/80)
Taper correction range	mm	±0.03
HYDRAULIC UNIT		
Tank capacity	Litre	40
Motor power	kW	0.55
GENERAL		
Operation voltage	volts	415 ± 10 % AC 3 Phase
Machine weight	kg.	2500

() Values in parenthesis indicate Optional Features/Accessories

Note:- Color shown in picture may not match with actual color due to printing limitations. Features & specification mentioned may vary & may not be a part of standard machine. All bracket values / items are optional at extra price.

Since continuous development is taking place, design and specifications are subject to change without prior notice and information.



2014.03 (Version 2, impression 2000)

Bangalore Plant

5/A, Servey No.74, 103, 106, 107, KIADB, Industrial Area, Dobaspet, Nelamangala Taluk, Bangalore, Karnataka - 562 111
Tel.: +91-080-27735383/85/86/87, 27702449
Fax: +91-080-27735384

Ace Micromatic
Group Company