

PRECISION CNC EXTERNAL CYLINDRICAL GRINDING MACHINE

MODEL : MICROTEK ECG 260 x 400 CNC



Note:- Colour shown in picture may not match with actual colour due to printing limitations.
Features & specification mentioned may vary & may not be a part of standard machine.

From:-

MICROTEK GRINDING MACHINES PVT. LTD.

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PRECISION CNC EXTERNAL CYLINDRICAL GRINDING MACHINE MODEL "MICROTEK ECG 260 x 400 CNC"

TECHNICAL SPECIFICATIONS

Capacities		
Swing Over Table	mm	260
Distance between Centers	mm	500
Table traverse	mm	400
Max weight of the job Between centers	Kg	30
Infeed slide (X-axis)		
iNFEED stroke	mm	120
Rapid feed rate	mm/min	10,000
Feed screw motor	nm	6
Minimum increment	mm	0.001
Wheel head		
Grinding wheel dia	mm	400/500*
Max. Wheel width	mm	63/80*
Spindle Motor	Kw	3.7/5.5*
Grinding Speed	m/sec	33/45*
Spindle cone dia	mm	50/63*
Table (Z axis)		
Rapid feed rate	mm/min	10,000
Swivel of table	deg	-2 to +4
Feed screw motor	Nm	6
Minimum increment	mm	0.001
Work head		
Spindle nose taper		MT-4/MT-5*
Spindle speed (Steplessly variable)	rpm	90 600
Spindle motor	Kw	0.75
Work Head swivel Towards wheel head	deg	90
Tail Stock		
Spindle nose Taper		MT-3/MT-4*
Quill diameter	mm	50
Quill travel	mm	30
Taper correction*	mm	+/- 0.04
Hydraulic Unit		
Tank capacity	ltrs.	50
Motor power	kw	0.75
General Information		
Operation Voltage		440V +/-10%, AC, 3 phase
Machine weight	kg	3000

FEATURES

Machine Bed

High rigidity and stability through box structure adequately ribbed design.

Table

Table moves on turcite coated, auto lubricated, hand scraped "v" and flat guide-ways which gives absolutely stick slip free movement. Table movement by AC servo motor with a pre-loaded ball screw. The table movement can also be provided with high precision glass scales (optional)

Work head

Spindle runs on high precision multi-point hydrodynamic bearing which gives very high rigidity and excellent surface finish. The spindle is made of cartridge type for easy maintenance. Special labyrinth system to prevent coolant and dust entry into work head bearing for long life. Spindle driver by AC motor with step-less variable. Speed from 90 to 600 rpm.

Wheel head

Spindle is made of Nitride Steel, especially heat treated to achieve higher accuracies and stability.

Spindle runs on high precision multi-point hydrodynamic bearing which gives very high rigidity and excellent surface finish.

In-feed

In-feed slide runs on rigid pre-loaded high precision anti-friction linear guide-ways. This slide is driven by AC Servo Motor with pre-loaded ball screw. The in-feed axis can also be provided with High precision glass scales (optional).

Tail stock

Tail stock spindle runs on specially designed spieth couplings. Clearance can be adjusted within microns anytime. Special roller and thrust bearings take heavy grinding loads.

Wheel dressing

Dressing is formed by blade type or single point diamond through CNC interpolation.

Other models:

- 1) CNC angular wheel head grinding machines.
- 2) CNC 4 axis crank shaft journal grinder.
- 3) All types of External/internal CNC grinders.

Manufactured By:

M/S Microtek Grinding Machines Pvt. Ltd.

(Total Grinding Technology Solutions)

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