

HEAVY DUTY CNC PRECISION CYLINDRICAL GRINDING MACHINE



MICROTEK HCG 350 x 800 CNC (4 axis)

Microtek Grinding Machines Pvt. Ltd
(Total Grinding Technology Solutions)

TECHNICAL DATA

CAPACITIES		
Swing over table	mm	350
Distance between centers	mm	900
Table traverse	mm	800
Max. weight of job between centers	kg	50
INFED SLIDE(X axis)		
Total stroke	mm	275
Rapid feed rate	mm/min	5,000
Feed screw motor	nm	8
Minimum increment	mm	0.001
WHEEL HEAD		
Grinding wheel size	mm	720x304.8x40
Spindle motor	kW	10
Grinding speed	m/sec	33/45*
TABLE (Z axis)		
Table stroke	mm	800
Rapid feed rate	mm/min	10,000
Swivel of table	deg	-3 to +5
Feed screw motor	nm	8
Minimum increment	mm	0.001
DRESSING UNIT		
U axis for longitudinal movement	mm	100
V axis for horizontal movement	mm	150
Spindle speed	rpm	2000
Spindle diameter	mm	60
WORK HEAD		
Spindle nose taper		MT-5 / MT-6*
Spindle speed (Steplessly variable)	rpm	30 - 300
Spindle motor	Kw	1.5
TAIL STOCK		
Spindle nose taper		MT-4
Quill diameter	mm	60
Quill travel	mm	40
HYDRAULIC UNIT		
Tank capacity	liters	50
Motor power	Kw	0.75
GENERAL INFORMATION		
Operation voltage		440V 10%, Ac 3 phase
Machine weight	kg	5000

*Optional

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 (optional). Special labyrinth system to prevent coolant and dust entry into work head bearing for long life. Spindle driven by AC motor with step-less variable speed from 30 to 300 rpm.

Wheel head

Spindle is made of Nitride Steel, specially heat treated to achieve higher accuracies and stability. Spindle runs on high precision multi-point hydro-dynamic 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 one micron anytime. Special roller and thrust bearings take heavy grinding loads.

Wheel dressing

Dressing is formed by diamond roll dresser which will be run by precision grinding spindle.

Optional Accessories

1. Spindle mounted wheel balancer for automatic balancing of the wheel.
2. Touch Probe for grinding position.
3. Two axis diamond roll dresser run by precision spindle for dressing.
4. In process gauging equipment for control size.
5. Hydraulic steady rest.
6. Linear scales for Table and Infeed axis.

Manufactured By: **Microtek Grinding Machines Pvt. Ltd.**
(Total Grinding Technology Solutions)

SB- 57, 2nd cross, 1st Stage, Peenya Industrial Estate,

Peenya, Bangalore 560 058. INDIA

Phone : +91 80 2839 3371 / 2839 3372

Email : microtekltd@yahoo.com/ microtekltd@gmail.com

Website: www.microtekmachines.com