

CNC INTERNAL GRINDING MACHINE

MODEL : MICROTEK ICG 300 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.

(Total Grinding Technology Solutions)

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CNC INTERNAL GRINDING MACHINE MODEL MICROTEK ICG 300 CNC

Designed to meet the requirement of multiple bores and faces of smaller and medium components in single checking resulting in very close geometrical accuracies like Concentricity, Parallelism of Faces and Perpendicularity between Diameter and Faces.

TECHNICAL SPECIFICATIONS

DESCRIPTION	UNIT	MICROTEK ICG 300 CNC
CAPACITY		
Centre Height	Mm	150
Max. Internal grinding diameter	Mm	80
Max. grinding length	Mm	80
Max. weight on spindle	Kg	30
INTERNAL SLIDE (Z- AXIS)		
Slide stroke	Mm	150
Rapid feed rate	mm/min	10000
Minimum increment/ pulse	mm	0.001
Feed servomotor torque	Nm	6
FEED SLIDE (X- AXIS)		
Slide stroke	mm	200
Rapid feed rate	mm/min	10000
Minimum increment/ pulse	Mm	0.001
Feed servomotor torque	Nm	6
INTERNAL HEAD		
Spindle size	Mm	Ø100 x 250
Spindle motor power	HP	3
Spindle Speed (Max)	rpm	30,000
WORK HEAD		
Center Taper	MT	5
Spindle Speed (Variable speed)	rpm	30-300
Spindle motor power	Hp	1
Swivel Range	Deg	+/- 5
GENERAL		
Operation Voltage	Volts	415+ or _10%A C3phase
Floor Space	m.sq.	5.5
Total power requirement	kw	20
Total weight of machine	kg	3,500

MACHINE BED:

Bed is made of high-grade cast iron. It has got a hollow, heavily ribbed box section for high rigidity.

FEED SLIDE

Feed slide (Work head slide) is made of spherical graphite iron for low wear and high stability. Slide is driven on the Precision anti friction linear guide ways and driven by A.C Servo motor through a precision ball screw.

INTERNAL SLIDE

Carriage slide (Table slide) is driven on High precision Antifriction guide ways by AC servomotor through a precision Ball Screw

INTERNAL SPINDLE

Internal Spindle head is mounted on internal slide. The internal spindle bearings are lubricated permanently with special grease. Internal spindle was equipped by ceramic bearing which can be run up to 30000 rpm with permanently greased.

OPTIONAL:

Gauging System: Post process gauge

MARPOSS M1 Star plugs of different sizes suitable for job for inspection with E3μ amplifier unit was provided for feedback to system with gauging the components based on trend to correct the size. Based on the feedback we can incorporate the compensation in the program.

Feed Back Glass Scales:

HEIDENHAIN LINEAR ENCODER (GLASS SCALE)

HEIDENHAIN GLASS SCALE was provided for precession feed back to servo motor for precession positioning and very accurate movement of carriage slide

Grinding Spindles:

High Frequency Spindle for smallest bore

Manufactured By:

M/S Microtek Grinding Machines Pvt. Ltd.

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