

IG-30
CNC Internal
Cylindrical Grinder

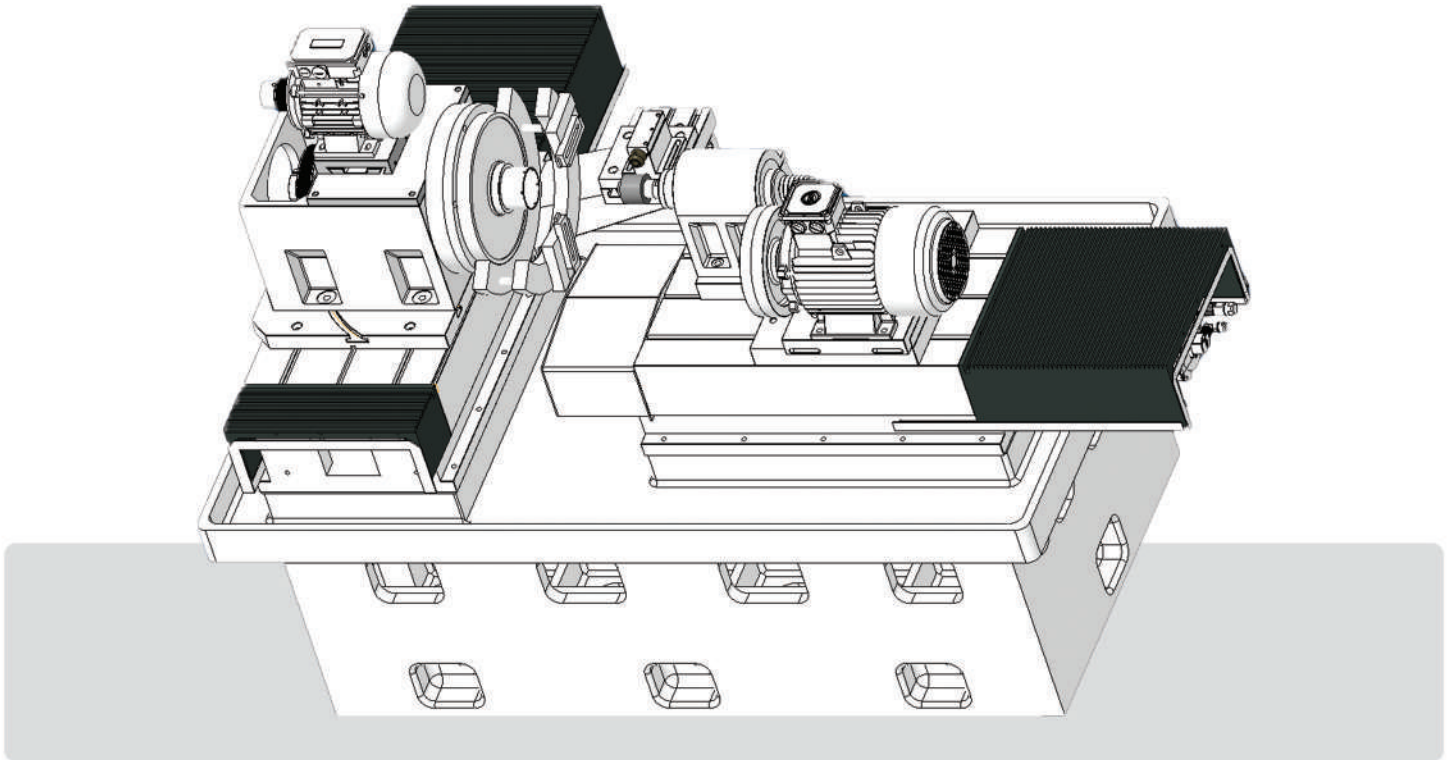


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CNC Internal Cylindrical Grinder

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OVERVIEW



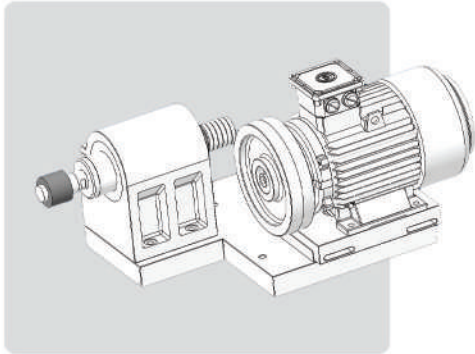
MACHINE BED

The Machine bed is made of one piece close grained cast iron box structure design with optimum ribbing provides high static and vibration free dynamic rigidity to the machine. Artificial Stress relieving process carried for more dimensional stability.

Laser calibrated axis for high precise positioning Accuracy and Repeatability.

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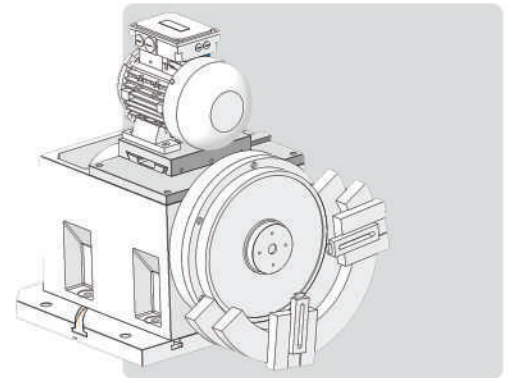


WHEEL HEAD

Machine is provided with Cartridge type Wheel spindle with two match pair sets of Angular Bearing for smooth performance while material cutting. Spindle is driven by induction motor and transmitted by flat belt.

WORK HEAD

Work head spindle is made of case hardened alloy steel and runs with precision Angular Contact Bearing. The drive to the work head is by induction motor via VFD to control job rpm for Grinding. Machine is provided with Magnetic Shoe Center less type work holding attachment. The work head can be swivelled for taper grinding.



COOLANT

Generous coolant supply is provided with electrical pump fitted on separate tank. Different option available as additional accessory.

ELECTRICALS

The machine is supplied with all electrical suitable for 3Ø, 415 V Ac, 50 Hz cycle. The motors are approved & reputed brand make with IE2 standard. The electrical panel with A.C. is mounted on one side of the machine. Operating panel is located nearest to working area for easy reach of the operator.

STANDARD FEATURES

- Two Axis CNC External Grinder with Siemens 808D as standard. Controller.
- Dedicated Programs with Plunge, Travers Grinding and Dressing Cycles.
- Smooth Oscillation of Wheel Table for jerk free operation.
- Circular Interpolation Dressing Cycle for crowning profile.
- G code / M code compatibility with other NC builders.
- Skip Dressing Cycles.
- Pitch error & Back Lash compensation.
- Electronic hand wheel.
- RS 232 C serial Interface port.
- Inch/Metric switchable.
- Auto Programmable Centralise Lubrication Unit.
- AC Servo axis for Drive.
- Dia 120 mm belt driven Internal Grinding spindle.
- Ø 300 mm Magnetic Shoes chuck.
- Machine with close enclosure.

OPTIONAL ACCESSORIES

- Siemens 828 Advance, Fanuc OITF.
- Mitsubishi / Delta PLC
- Servo Controlled C axis (Work Head).
- Linear Glass Scale (for single or both axis). **
- Magnetic Separator.
- Paper band with Magnetic Coolant Separator.
- Ø 100 mm belt driven Internal Grinding spindle in lieu of standard.
- Ø 80 mm belt driven Internal Grinding spindle in lieu of standard.
- Ø 60 mm belt driven Internal Grinding spindle in lieu of standard.
- Ø 200 mm Magnetic Shoes chuck.
- Ø 150 mm Magnetic Shoes chuck.
- Cross roller linear guide ways for both axis.
- High Frequency Spindle with Drive, Lubrication Unit and Spindle Chiller Unit.
- Roll Dressing attachment with Spindle (without Diamond Roll).
- 4th axis for Servo controlled Radius Dresser.
- Hydraulic diaphragm chucking system (without diaphragm chuck).
- 7.5 hp Induction motor for Wheel head.
- VFD for Wheel head with potentiometer
- To maintain CSS, VFD required for Wheel head and Work Head with Servo as 3rd Axis in lieu of standard.
- In-Process Gauge.
- Hydraulic operated Auto loadingsystem (Based on Component).
- Arm type Dresser unit.
- 20 KVa Servo Voltage Stabilizer.

SPECIFICATION

DESCRIPTION	MODEL	
	UNIT	IG-30
CAPACITY		
MAX ROTATING DIAMETER	mm	300
MIN. GRINDING DIAMETER (MIN/MAX)	mm	16
MAX. GRINDING DIAMETER (MIN/MAX)	mm	280
GRINDING DEPTH MAX.	mm	80
MAXIMUM JOB WEIGHT	kg	50
WORK CENTER HEIGHT FROM FLOOR	mm	1200
MAX. CHUCKING DIA.	mm	300
CENTRE HEIGHT FROM SLIDE	mm	350
CROSS TABLE (X-AXIS)		
X-AXIS STROKE	mm	200
RAPID FEED RATE	mtr/min	15
MINIMUM RESOLUTION	mm	0.001
FEED SERVOMOTOR TORQUE	Nm	8
BALL SCREW	mm	Ø32 x 5
LONGITUDUNAL TABLE (Z-AXIS)		
Z-AXIS STROKE	mm	200
RAPIID FEED RATE	mtr/min	15
MINIMUM RESOLUTION	mm	0.001
FEED SERVOMOTOR TORQUE	Nm	8
BALL SCREW	mm	Ø32 X 10
WORK HEAD		
SPINDLE SPEED RANGE	rpm	50-500
SPINDLE MOTOR POWER	kw/hp	0.75/1
SPINDLE NOSE	mm	MT-4
MAXIMUM SWIVEL	deg(°)	±15°

SPECIFICATION

DESCRIPTION	MODEL	
	UNIT	IG-30
INTERNAL GRINDING HEAD		
SPINDLE SIZE-120 MM X 250 MM (MAX. RPM)	rpm	8000
OPTIONAL SPINDLE SIZE-100 MM X 250 MM (MAX. RPM)	rpm	12500
OPTIONAL SPINDLE SIZE-80 MM X 250 MM (MAX. RPM)	rpm	14500
OPTIONAL SPINDLE SIZE-60 MM X 250 MM (MAX. RPM)	rpm	18000
SPINDLE MOTOR POWER	kw/hp	3.75/5
SPINDLE MOTOR SPEED	rpm	2800
OPTIONAL ELECTRO SPINDLE AVAILABLE AS REQUIREMENT	rpm	12000~42000
GENERAL		
OPERATION VOLTAGE	volts	415,3PH,AC,50HZ
TOTAL POWER REQUIRED	kw/hp	9.5/13
FLOOR SPACE	mm	2250 X 2700
MACHINE WEIGHT	kg	3250

Note:
Minimum and Maximum grinding diameter as specified above may vary based on specific requirement. Features and Specification may vary as specific job requirement. Colour as shown in picture may not match with actual machine colour. Machine Guard May Change as per Job Specification and Accessary used. As per Grinding length, Wheel utilisation will change depending upon swivel angle. Please discuss suitability to your requirement before ordering to us. As a part of Continuous Improvement Process, design and specification subjected to change without prior notice and information

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