

PRECISION SURFACE GRINDING MACHINE

Model : microSURF 3060 - PLC



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:-

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PRECISION SURFACE GRINDING MACHINE MODEL "microSURF 3060 - PLC"

Designed to meet today's and Future requirements of Surface Grinding of smaller, medium and heavier pieces with high accuracy and surface finish.

TECHNICAL SPECIFICATIONS

DESCRIPTION	UNIT	microSURF 3060- PLC
Machining Range		
Grinding length x width (Max.)	mm	650x300
Distance between table and spindle center (Max.)	mm	450
Working Surface	mm	675x325
Weight carrying capacity of table (Max.)	kg	250
Table		
Maximum Longitudinal movement	mm	625
Max. cross movement	mm	325
Logitudinal movement		
Max. Table Speed	mm/min	15,000
Cross Movement		
Auto cross feed at each Table reversal	mm	0.25-6
Manual feed rate/ turn	mm	2
Least count of Hand wheel	mm	0.005-0.01
Vertical Movement		
Through Ball Screw Driven by servomotor	nm	0.2
Manual movement thru MPG	mm	0.002
Rapid Traverse	mm/min	3000
Grinding Wheel		
Size of the Grinding Wheel	mm	300x30x127
Speed	rpm	2200
Motors		
Grinding Spindle	hp	5
Vertical up down	Nm	8
Cross feed	hp	0.5
Coolant Pump	hp	0.12-0.2
Hydraulic System		
Working Pressure	kg/cm sq	15
Power of Hydraulic pump Motor	Kw	1.5
Tank capacity	ltrs	80
Weight of the machine (approx.)	kg	2500

Standard Features

- » High Precision Angular Contact Bearing Spindle
- » Spindle Head Vertical column movement on LM guideways driven by Ball screw through power elevation/ servo feed and manual Infeed or MPG
- » Traverse Grinding: Hand Scrapped guideways with Turcite on top Electro mechanical drive or Servo drive
- » Table moves on Hand scrapped guideways with Turcite on top through Hydraulic movement
- » Electro-Magnetic Chuck
- » Complete Sheet metal to prevent grinding coolant splashes
- » Dressing Attachment with Diamond dresser
- » One set of Grinding wheel with flange and Puller
- » Set of Service Tools & Belts
- » Wheel Balancing Mandrel
- » Machine Lamp
- » Machine Leveling Pads
- » Guideways & Ball Screws continuous lubrication
- » Operator manual with Test report
- » Automatic lubrication of lead screws.
- » Machine high grade cast iron construction of Bed and Column base for rigidity & dampening.
- » Slip free, smooth & accurate table movement thru Turcite
- » Flatness of machined surface will should be within 8μ for a length of 300mm.
- » Hydraulically operated longitudinal table movement with variable speeds.
- » Vertical slide driven by servo motor
- » Coolant system with motorised pump
- » Cross movement by Induction Motor or Rapid auto inching and manual hand wheel thru clutch.

Optional Accessories

- » Angle Dressing attachment
- » De magnetizes
- » Grinding Wheel flange
- » Electro Magnetic separator
- » Cross feed, Infeed driven through Servo motor, L.M. guideways and ball screw through PLC with Grinding Cycles.

*OPTIONAL

Manufactured By:

M/S Microtek Grinding Machines Pvt. Ltd.

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