

## PRECISION SURFACE GRINDING MACHINE

**Model : microSURF 1545-PLC  
microSURF 1545-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:-

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### PRECISION SURFACE GRINDING MACHINE MODEL “microSURF 1545-PLC”/ “microSURF 1545-CNC”

#### TECHNICAL SPECIFICATIONS

<b>Machining Range</b>		
Grinding length x width (Max.)	mm	450 x 150
Distance between table and spindle centre (Max.)	mm	400
Working Surface	mm	475 x 175
Weight carrying capacity of table (Max)	kg	50
<b>Table</b>		
Maximum Longitudinal movement	mm	450
Max. cross movement	mm	150
<b>Longitudinal movement</b>		
Max. Table Speed	Mt/min	6
<b>Cross Movement</b>		
Auto cross feed at each Table reversal	mm	0.2-2
Least count of Hand wheel	mm	0.001
<b>Vertical Movement</b>		
Manual feed rate/ turn	mm	0.2
Least count of Hand wheel	mm	0.001
Power elevation	mm	
<b>Grinding Wheel</b>		
Size of the Grinding Wheel	mm	175 x 20
Speed	rpm	2000
<b>Motors</b>		
Grinding Spindle	hp	2
Vertical up down	hp	0.25
Cross feed	hp	0.25
Coolant Pump	hp	0.12
<b>Hydraulic System</b>		
Working Pressure	kg/cm sq	10
Power of Hydraulic pump Motor	Kw	0.75
Tank capacity	ltrs	50
<b>Weight of the machine (approx.)</b>	kg	1200

#### FEATURES of “microSURF 1545”-PLC/CNC

- »» Ideal configuration for automated production light.
- »» Components
- »» Fine-grained rigid castings
- »» Turcite lined sliding surfaces
- »» Table moves continuous lubricated turcite lined “V” and Flat guide ways
- »» Cross traverse saddle moves on turcite lined double “V” guide ways which were automatically lubricated thru powerpack
- »» Vertical slide movement is by accurate rollers on precision guide bars
- »» Table movement is hydraulically operated with variable speed control
- »» Table reversal is by adjustable proximity switches
- »» Cross and vertical slides are driven by servo motors and precision ball screws
- »» Various operating cycles easily set by programmable logic controller
- »» Conveniently located operator panel with setting and control elements
- »» Electric Hand wheel for easy setting in vertical and cross directions
- »» Wheel spindle mounted on high precision bearings in 80 mm diameter cartridge housing
- »» Typical applications include plain surface grinding, slot grinding, pitch grinding, face grinding, profile grinding etc.,
- »» Dressing is formed by blade type or single point diamond

**Note:** All specifications and design are subject to alteration without notice

Manufactured By:

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