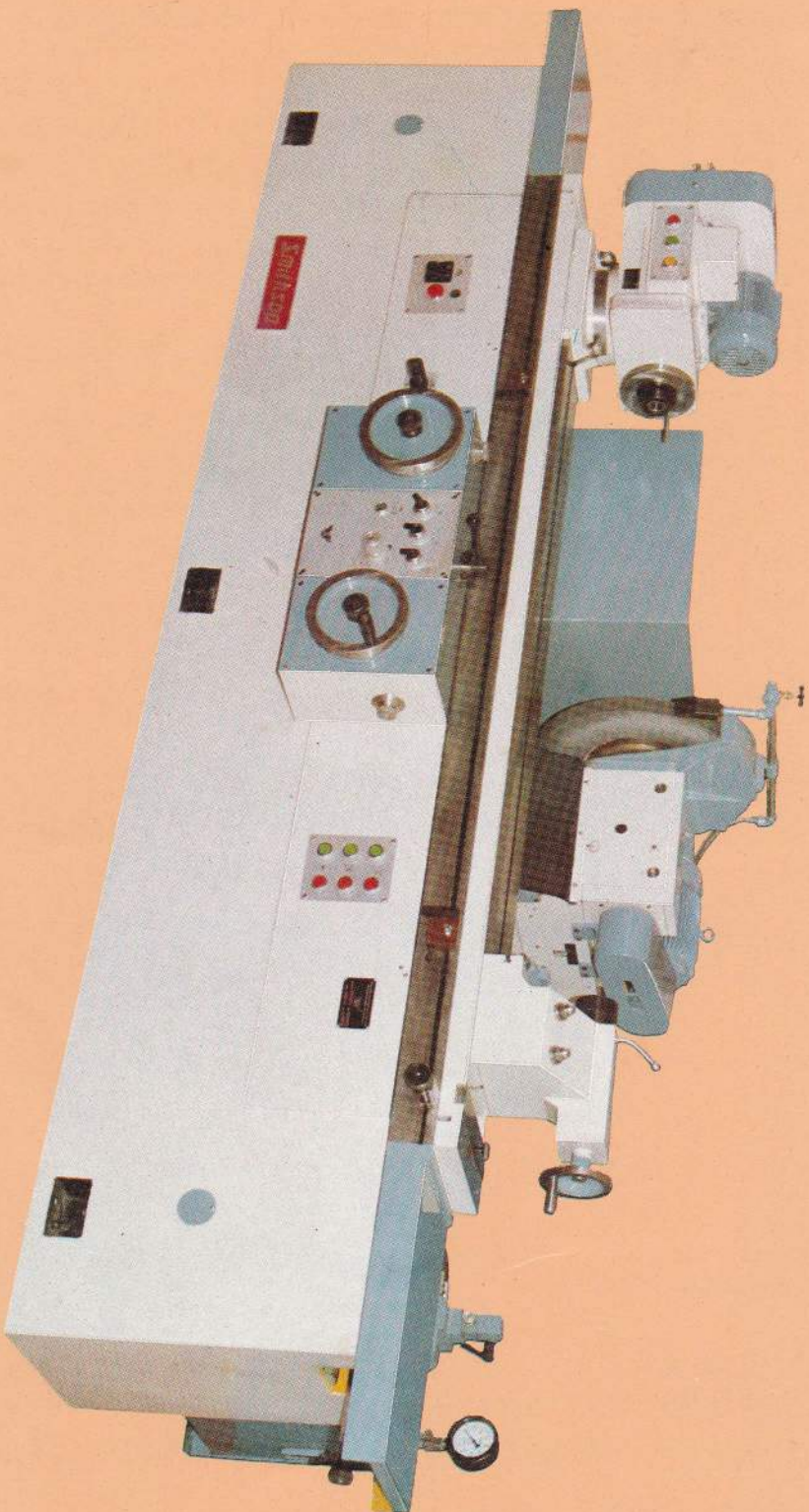


SMITHSON

HYDRAULIC UNIVERSAL CYLINDRICAL
GRINDING MACHINES





**Smithson Hydraulic Universal Cylindrical Grinding Machines SHU-Models
CONFORMING TO ISI TEST LIMITS.**

CONSTRUCTION :-

Body and all slides are made of high grade cast iron, duly seasoned, rigid & Strong enough to prevent distortion & wear. Guide way are precision hand scraped/ground to match the corresponding surface of slides etc.

Table slide is hydraulically operated and the cross-slide is hydromechanically operated. Quick hydraulic retraction and forward movement of cross-slide is provided. The cut is taken by hand to avoid any damage to work piece and grinding wheel.

Work head is swivelling type to grind angular as well as conical jobs. The work spindle has been designed to suit live centre as well as dead centre grinding.

The machine is fully installed with electric motors, switch gears and wiring, normally arranged to suit the supply of 400/440V. 3 Phase AC, 50 Cycles.

SPECIFICATIONS	SHU - 1500	SHU - 2000
Maximum Grinding Length	1500 mm	2000 mm
Maximum Height of Centres.	205 mm	205 mm
Maximum Swing over bed.	409 mm	409 mm
Maximum grinding diameter.	125 mm	125 mm
Table feed.	Hyd., infinitely variable	Hyd., infinitely variable.
Range of the table Feed per minute.	0.05/1-5 m/min.	0.05/1-5m/min
Maximum table swivel.	6° + 3° = 9°	6° + 3° = 9°
Hydraulic power motor.	1.1 Kw	1.1 Kw
Workhead Swivel on either side	90°/30°	90°/30°
Workspindle speeds.	4	4
Workspindle speeds range.	28, 70, 140, 205	28, 70, 140, 205
Workhead motor.	.75 Kw	75 Kw.
Taper in workspindle.	No. 4 Morse	No. 4 Morse
Taper in tailspindle.	No. 3 Morse	No. 3 Morse
To and fro swivel of wheelhead at base.	60°	60°
Transverse movement of wheelhead max.	125 mm	125 mm
Size of grinding wheel	500 x 40 x 203 mm	500 x 40 x 203 mm
Min. dia of worn out wheel.	350 mm	350 mm
RPM of grinding wheel	1250, 1500, 1750	1250, 1500, 1750
Wheelhead motor.	3.5 Kw	3.5 Kw
Max. Internal grinding depth.	150 mm	150 mm
Min. & Max. dia of Internal grinding wheel.	12 to 40 mm	12 to 40 mm
Max & Min. dia of hole for grinding.	50 to 18 mm	50 to 18 mm
Motor for internal attachment.	.75 Kw	.75 Kw
Coolant pump motor	0.10 Kw	0.10 Kw
Approximate gross weight with packing.	3750 Kg.	4000 Kg.

Standard Equipment :

Coolant pump fitted on tank, One. Dressing tool holder (without tool), One, Grinding wheel fitted on, One. Grease gun, One. Oil Can, One. Dead Centres, Two. Key Spanners, One Set. Wheel flange fitted on, One.

Optional Equipment (At extra Cost)

Internal grinding attachment (to be ordered with the machine), Independent 4 jaw Chuck 6". 3 Point steady rest, 2 Point steady rest, Radius Truing device, Balancing stand, Balancing Mandrel Spare wheel flange.

(WE KEEP THE RIGHTS RESERVED TO MAKE CHANGES IN DESIGN & SPECIFICATIONS TOWARDS IMPROVEMENTS WITHOUT NOTICE)

Manufacturers

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