

Laxman Cylindrical Grinding Machine

High Precision Compact & Economical



MODEL CLM-4 Cylindrical

Our cylindrical grinders are very popular for their sturdy construction, efficiency and precision engineering. We procure the best quality raw materials to manufacture this grinder.

Specifications

		C.L.M.-1	C.L.M.-2	C.L.M.-3	C.L.M.-4
General	Max. distance between Centres	300 mm.	450 mm.	600 mm.	1000 mm.
	Max. Grinding length	300 mm.	450 mm.	600 mm.	1000 mm.
	Height of Centre	115 mm.	115 mm.	115 mm.	170 mm.
Wheel Head	Max. Grinding wheel dia.	300 mm.	350 mm.	350 mm.	400 mm.
	Max. Width of wheel	25 mm.	25 mm.	25 mm.	40 mm.
	Bore of Grinding wheel	127 mm.	127 mm.	127 mm.	127 mm.
	R.P.M. of	2000	1900	1900	1400

	Grinding wheel spindle				
	H.P. of wheel	2 HP	2 HP	2 HP	3 HP
Work Head	Swivel Range	45°	45°	45°	45°
	Spindle Morse Taper	M.T.3	M.T.3	M.T.3	M.T.3
	No. of Speed	3	3	3	4
	H.P. of Motor	0.5 HP	0.5 HP	0.5 HP	1 HP
	Total weight	1000 Kg	1200 Kg	1500 Kg	2000 Kg
Optional	Hydraulic Table Movement				
	Internal Grinding Attachment and ID spindle				
	Slide ways coated with 'TURCITE'				
	variable speed Control AC drive in work head with digital read out				
	Cartridge spindle / Hydrodynamic or filmatic bearing spindle				
	Rapid Unit in cross slide				
	Hydraulic Sizer unit in cross slide, spark out ,fast retract in cross slide / CNC, HMI & PLC operated cross slide				
	D.R.O. in Cross Slide				
	Micro feeding attachment				
	Magnetic Separate / Paper band filter/ Magnetic Separate with Paper band filter				

The base is made of close-grained cast iron and is well ribbed. It is made particularly heavy to prevent vibration and distortion the guide ways - one side flat End the other V type are precision hand scrapped to match the corresponding surfaces of the table slides. Longitudinal hand travel of the table is by rack and pinion arrangement and automatic travel by hydraulic. The change over from manual lubrication of the longitudinal and cross sideways, two oil pockets and groves are provided, one at each end.



MODEL CLM-1 External

HYDRAULIC SYSTEM

This consists of a general pump, oil tank, piping, etc. All conveniently housed in the base. The hydraulic is made of graded cast Iron and is honed.

WHEELHEAD

The rigid wheel head spindle is made of EN 24 or 353 steel hardened and ground. It runs in adjustable type bush bearing. The drive to the wheel head transverse is cross direction is on precision hand scrapped 'V' and flat guide ways. The spindle is tapered (50)



MODEL CLM-2 Internal Cylindrical

head is built for grinding operation both with stationary centre and revolving and revolving spindle. oil cups are provided for lubrication.

INTERNAL GRINDING ATTACHMENT

The spindle of the internal grinding attachment which is suitable for grinding cylindrical and tapered is made of EN-31 and is ground. It runs in preloaded magneto ball bearings- two in the front and two in the rear. The drive to the spindle is by an independent motor through endless nylon flat belt. The hinge-type internal grinding attachment is conveniently located on the wheel head so that it can be easily swung down into position. The standard spindle quill admits grinding wheel of given diameters up to a width of 9 mm.

TAILSTOCK

The spring loaded tailstock spindle has MT-3. The tailstock travels smoothly all along the length of table right up to the work head. The clamping of the tailstock is by means of a nut & bolts.

COOLANT

Generous coolant supply is provided with an electrical pump fitted on a separate tank, measuring approximately 15" x 15" x 12" (L.W.H.) and having a capacity of 36 liter water.



MODEL CLM-4 Universal Cylindrical

Electricals, control panel, grinding wheel, dressing attachment, dead centres, electrical-coolant pump with tank and fittings.

EXTRA ACCESSORIES

, three point steady rest, two point steady rest, wheel balancing arbour, wheel dressing attachment, wheel balancing attachment, additional wheel flange, chuck flange,

at the front to receive the wheel flange. the bearing surfaces.

WORKHEAD

The work head spindle is made of nickel chrome steel EN-24 or 353 hardened & ground. runs in gun metal bush bearings or in Angular contact bearing. The drive to the work head spindle, which has MT-3 is by a 3 step 'V' pulley. The speed obtained through this pulley can be reduced by another bigger size pulley provided in the workhead housing. The work

ELECTRICALS

The machine is supplied with electrical suitable for the supply of 400 / 440 V.A.C. 50 cycles. Electric motors are of reputed make. The machine can be ON and OFF by Push button individual controls and general stop.

STANDARD EQUIPMENT

revolving centre, MT-3, 3 jaw true chucks, dead Center grinding attachment, internal dresser stand radius dresser, wheel angle dresser,

LAXMAN MACHINE TOOLS

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