

Laxman Internal Grinding Machine (ID Grinder, Bore Grinder)

High Precision Compact & Economical



MODEL CLM-2 Internal Cylindrical

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

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.

Specifications

		CILM-1	CILM-2	CILM-3	CILM-4
General	Max Job Length	50 mm.	100 mm.	150 mm.	200 mm.
	Max Grinding length	50 mm.	100 mm.	100 mm.	100 mm.
	Height of Centre	150	150/170/190 mm.	150/170/190 mm.	170/190mm.
Internal Grinding spindle	Spindle Dia	60/80	60/80/100	60/80/100	60/80/100
	RPM of ID spindle	12500/18000 /28000	12500/18000 /28000	12500/18000 /28000	12500/18000 /28000
	HP of wheel	2 HP	2HP /3 HP	2HP /3 HP	2HP/3 HP
Work Head	Swivel Range	45°	45°	45°	45°
	Spindle Morse Taper	MT 3	MT 3	MT 3	MT 3
	No. of Speed	3 / Variable	3 / Variable	3 / Variable	3 / Variable
	HP of Motor	0.5/1 HP	0.5/1 HP	0.5/1 HP	0.5/1 HP
	Total weight	1000 Kg	1200 Kg	1500 Kg	1800 Kg
Table speed	Hydraulic Infinitive Variable Speed				
Optional	Shoe Magnetic Centreless Chucking System/ Diaphragm Chucking System/ Three Jaw chuck/ four jaw chuck /Hydraulic collets/ manual collets /hydraulic chuck				
	Slide ways coated with 'TURCITE'				
	Variable speed Control AC drive in work head with digital read out				
	Automatic Grinding Cycle				
	Hydraulic Sizer unit in cross slide, spark out ,fast retract / CNC, HMI & PLC operated cross slide				
	Rapid unit				
	DRO in Cross Slide				
	Micro feeding attachment				
	Magnetic Separate / Paper band filter/ Magnetic Separate with Paper band filter				

HYDRAULIC SYSTEM

Solenoid valve and proxy operated very smooth Hydraulic system, This consists of a standard pump, oil tank, piping, etc. All conveniently housed in the base. The hydraulic is made of graded cast Iron and is honed.

INTERNAL GRINDING SPINDLE

The spindle of the internal grinding machine which is suitable for ID cylindrical and tapered grinding, Spindle is made from EN-31 and is ground. It runs in preloaded magneto ball bearings-two in the front and two is the rear. The drive to the spindle is by an independent motor through endless nylon flat belt.

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

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.

ELECRICALS

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

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

EXTRA ACCESSORIES

Micro feeding attachment, D.R.O., Variable speed control Drive in work head
Mechanically automatic cross slide feed attachment, three point steady rest, chuck flange, , 3 jaw true chucks, , internal dresser stand radius dresser, wheel angle dresser, Magnetic coolant filter, Paper band cum magnetic coolant filter.

LAXMAN MACHINE TOOLS

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CYLINDRICAL