



PRECISION MACHINE TOOL

An ISO 9001:2015 Certified Company
GST NO : 24AJNPP3887E1ZT



Manufacturer & Exporter of all type of high Precision Grinding Machines

ABC – 800MM X 250 CH HEAVY DUTY & RIGID HYDRAULIC CYLINDRICAL GRINDING MACHINE FOR SLITTING CUTTER OD GRINDING

MODEL	PMT/800/250/H (Heavy Duty & Rigid Model)	
GENERAL		
Centre height from machine bed	mm	250
Swing over Table	mm	480
Admit between centres	mm	800
Maximum grinding length	mm	800
Maximum weight of the job between centre including mandrel weight (approx)	Kg	500
Fixing of job (in mandrel)	Job should be fixed between 2 centres on high precision mandrel. (head centre & dead centre)	
Purpose	The Slitting cutters will be mounted on the mandrel side by side and ground.	
Mandrel (Optional)	High Precision Hardened, ground & Hard chrome plated Mandrel for effective working with key and key - way having Concentricity of the mandrel within 10 micron. Overall run-out of the mandrel within 10 micron. Mandrel drawing, material & Hardness will be provided in receipt of your order. We will Supply 2 nos. spacers of suitable size and lock nut for locking the job. (as a optional cost) slitting cutters drawings must be required for to manufacturing the mandrel.	
TABLE		
Maximum Swivel of Table	deg	± 3
Speed Inf. Variable (Hydraulic traverse)	m/min.	0.1 - 0.5

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"PREMATO" can supply machines tailor-made to suit specific requirement of the user



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Guideways coating	Turcite – B slide way coated on both moveable slides to prevent stick slip motion.	
GRINDING WHEEL		
Diameter	mm	500
Width	mm	50
Bore	mm	203.2
Wheel Speed	Rpm	1400 - 1600
Grinding wheel	make	Norton / CUMI – as availability in market
GRINDING WHEEL HEAD		
Grinding Wheel Head Bearings	Wheel head Spindle made of alloy steel, specially heat treated, case carburizing, ground, lapped and cartridge type spindle, grease lubricated fitted with high precision imported P4 grade matched pair angular contact bearings of 2 pairs in front and 2 pair at rear, which give very high accuracy and excellent surface finish to the work piece.	
Rapid Approach / Forward - Retraction	mm	50 (optional)
Manually in-feed resolution	mm	0.005 on radius
WORK HEAD		
Bearings	Heavy duty work head having high precision SKF – 4 bearings in front, 4 bearings at rear.	
No. of Speeds	Infinitely Variable 3 Phase VFD (Make: Schneider/Delta)	
Speed Range	rpm	15 – 100
Spindle Nose Taper	MT	5
TAIL STOCK (Manually operated)		

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Centre	MT	5
Quill Travel	mm	75
HYDRAULIC SYSTEM (Latest block design)		
Oil tank capacity	Ltr.	50
Solenoid valve	24V DC	YUKEN
Pump capacity	Lpm.	9
Maximum pressure	Kg.	50
Hydraulic oil (supply without oil)	grade	68 (on your scope)
COOLANT SYSTEM		
Tank Capacity	Ltr.	150
Pump capacity	hp	0.16
Coolant oil (supply without oil)	grade	CIMSTAR OR equivalent (on your scope)
MOTORS POWER		
Wheel Head	hp	7.5
Work Head	hp	3
Hydraulic Power Pack	hp	2
Coolant Pump	hp	0.16
Power requirement	12.66 HP, Machine should required one feeder at the machine panel of 415V (+10%/-15%), 3 Phase, 50Hz (+/-5%) AC.	
MACHINE ACCURACY		
Grinding tolerance	+/- 5 micron	
Concentricity tolerance after grinding	10 micron	

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ANOTHER STANDARD SPECIFICATION WITH THE 'PREMATO' MACHINE:-

1. The machine has one piece bed, close grained and graded cast iron box structure design heavily reinforced with ribs provided high rigidity and stability.
2. The machine had large prismatic guide ways of V-flat construction & carefully hand scrapped to ensure high accuracy complied to IS & ISO specifications.
3. Main moveable slide is hydraulically operated by precision hydraulic cylinder.
4. Hardened and precision ground feed screw for perfect repeat accuracy having spring loaded double nut for backlash error adjustment.
5. Simple coolant tank with pump and piping without cutting oil. (Cutting oil are on your Scope)
6. Machine is tested as per IS 2368 & ISO 2433.
7. More rigid and precise manually operated tailstock having 75 mm traverses.
8. Turcite –B slide way coated on both moveable slides for to prevent stick slip motion.
9. Automatic lubrication on main moveable slide by flow control valve.
10. Separate hydraulic power pack unit fitted with 24v D.C Valve but without Encl - 68 Oil.
(Hydraulic oil on your Scope.)
11. All electrical motors and pump fitted on machine.
12. Operating manual with machine test certificate will be supplied along with machine.
13. Machine weight: 3600 Kg. (approx).

We are hoping for your positive response and assuring you of our best services always.

Thanking you,

For Precision Machine Tool

Ahmedabad

Mr. N. V. Patel (M. D.)

(M) - 07984105104 / 09537396116

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