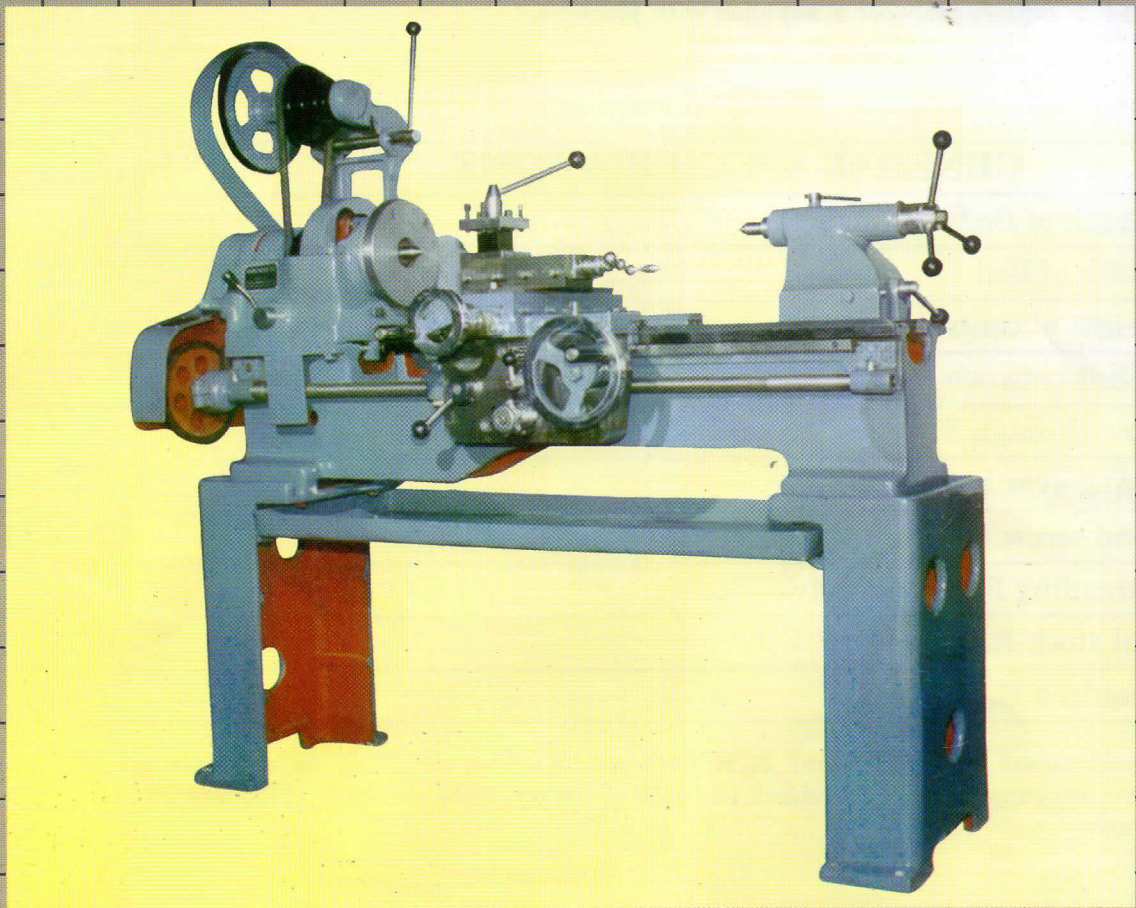


SMT

LATHE



DESCRIPTION OF THE LATHE MACHINE

THE BED :- Is made of special best alloy of cast iron which makes a hard close grained casting having unusual strength and long wearing qualities. It is machined and ground to fine finish. It is designed with cross ribs.

HEAD STOCK :- Is of the V-Pulley type the spindle of which is mounted on adjustable taper roller bearings. The spindle is made of special steel accurately ground to fine limits on special grinders. The back gear is on the rear side which can be easily engaged or disengaged by means of a handle Direct V-belt drive to the spindle is provided for smooth and quiet operation at high speeds.

SADDLE :- Is designed with sufficient margin of bearing for the guide ways. Wedges are provided for the cross-slide and compound-rest slide which facilitate adjustments to be made to compensate for wear. Micrometer collers are fitted to the cross slide and compound-rest screws.

TAILSTOCK :- It allows easy withdrawal of centre of drill. The tailstock sets over on its base and can be arranged to set over for taper turning. The spindle can be tightened by means of a hand lever provided at the top. The body including the base can be clamped to the bed by means of bolt and nut provided.

APRON :- Is of single wall design. Sliding and surfacing power feeds are engaged by tightening the star wheel and suitably altering the lever position on the apron. All gears and bearings are lubricated through one point oil well.

THREAD DIAL INDICATOR :- A thread dial indicator is provided for cutting long screw threads. This device permits disengaging the half-nut at the end of the cut, returning the carriage to the starting point by hand then engaging the half-nuts at the correct time so the tool will follow the original cut. This eliminates the necessity of reversing the lathe spindle.

TOOL POST :- Square tool post is supplied with Machine.

GENERAL SPECIFICATIONS	SMT No.4 4'-6"
Length of Bed	1372 mm
Width of Bed	235 mm
Height of centre	165 mm
Admit between centre	673 mm
Hole through Spindle	40 mm
Swing over bed	610 mm
Lead screw	6 TPI
Threading Range & Metric Pitches	4 to 50
Tail stock Ram Travel	127 mm
Required H.P.	1 HP

All the specifications are in general & it does not bind us in detail as constant improvements are made. The Machines are supplied with one chuck plate.(17) Gear set, 2 Dead Centre MT3. Motorised counter without motor chuck & switch