

PANTHER

**HEAVY DUTY
ALL GEARED
LATHE**
MACHINES



4310 / 5610 / 6610 Series

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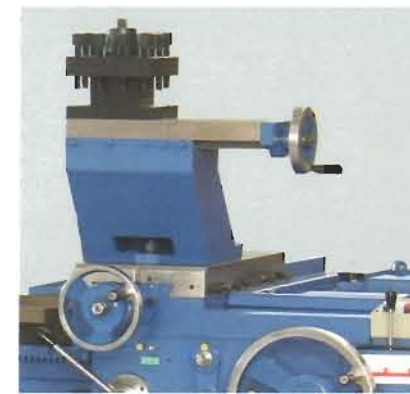
The 4310 / 5610 and 6610 series Heavy Duty Lathes are designed to provide optimum performance with high cutting power with versatility and used in a wide range of industries, general purpose machine-shop, mining and power industry, paper plants, ship yards etc. These lathes are built and tested for high accuracy standards.

- ◆ Single piece bed casting, planner type, for maximum rigidity
- ◆ Hardened and ground bed ways
- ◆ Large heavy duty head stock
- ◆ Removable gap bed



BED

The heavy duty bed is made of high quality cast iron and naturally stress relieved. The bed ways are hardened and precision ground. The bed is of one single piece for maximum rigidity and stability and is heavily ribbed. The bed has removable gap with a large swing capacity.



SADDLE AND APRON

Made of high quality cast iron, these components are again heavily ribbed to provide high stability.



TAILSTOCK

Rigid design tailstock ensures stability under all cutting conditions. The tailstock body is rigidly bolted, on its ways thus preventing accidental slippage.

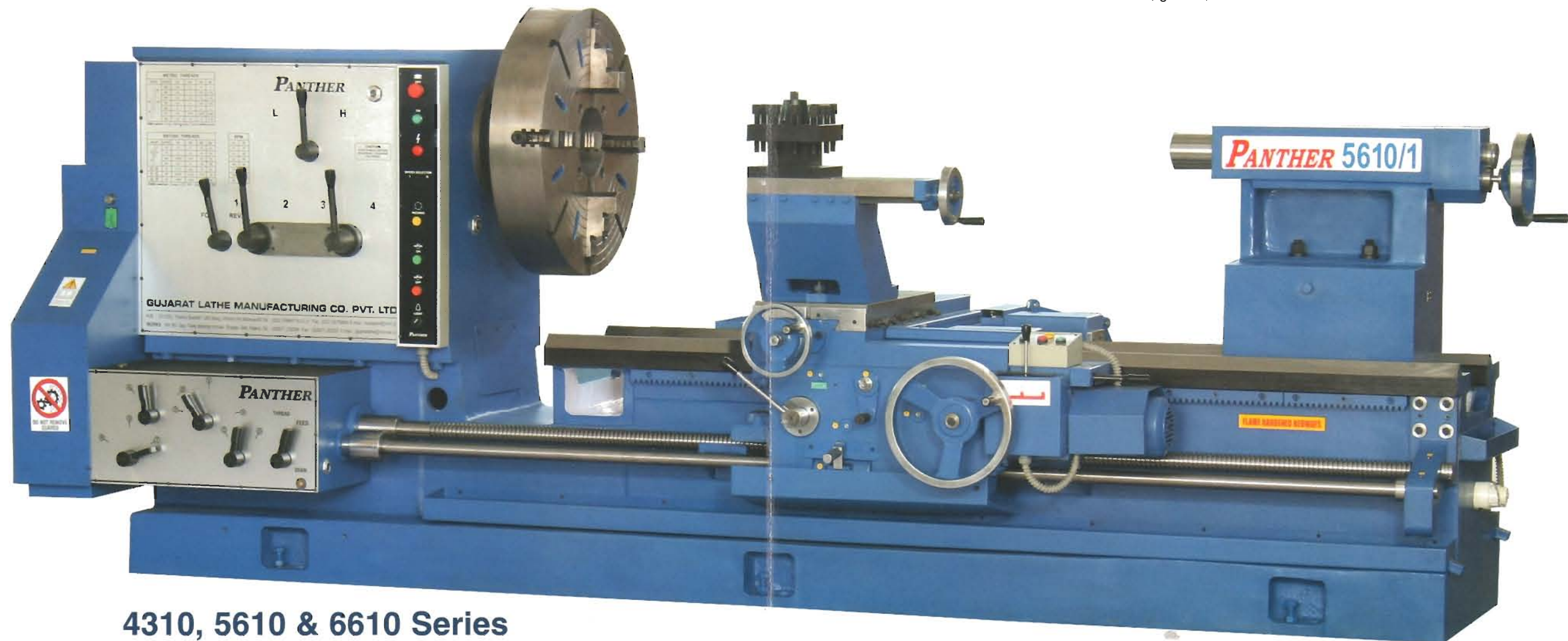
The tailstock quill has two (2) speeds selection by lever, for rapid positioning and drilling. The handle for the tailstock quill also has a dial to show the axial position of the quill.

The quill is made of high tensile steel which is hardened, ground, and honed to a mirror finish.



UNIVERSAL GEAR BOX

A fully universal gear box provides the feeds and allows a very large range of threads, without the need of changing transposing gears. Inch, metric, module, and diametral pitch threads are all selected via the conveniently located levers.



4310, 5610 & 6610 Series



HEAVY DUTY ALL GEARED LATHE MACHINES : 4310-5610-6610 SERIES

SALIENT FEATURES :

- ❖ One piece lathe bed casting ensures better rigidity.
- ❖ Head Stock Spindle is precisely ground and runs in one taper roller bearing and one ball bearing on front side and one taper roller bearing at rear side.
- ❖ Head Stock Gears are of special alloy steel.
- ❖ Oil Pump is provided for lubrication of head stock shaft and gears.
- ❖ Bayonet Type Spindle Nose .
- ❖ Universal Norton Gear Box provides wide range of inch and metric threads.
- ❖ Drop worm type feed engage / disengage lever for easy operation.
- ❖ Control panel for on / off the machine, reverse / off / forward start handle is given along with apron gear box for easy control.
- ❖ Tail Stock Quill movement operated by hand feed with dual feed gear box.
- ❖ Flame Hardened Bed ways
- ❖ Rapid saddle movement (optional)

TECHNICAL SPECIFICATIONS

MODEL	4310	5610	6610
TYPE OF BED	FLAT & V GUIDEWAYS WITH GAP BED		
SWING OVER BED	840 mm	1100mm	1300mm
HEIGHT OF CENTRE	430 mm	560 mm	660 mm
WIDTH OF BED	555 mm	655 mm	755 mm
SWING OVER CROSS SLIDE	510 mm	770 mm	950 mm
SWING IN GAP	1250 mm	1510 mm	1710 mm
LENGTH OF GAP IN FRONT OF FACE PLATE	330 mm	330 mm	330 mm
No. OF SPINDLE SPEED	8	8	8
SPINDLE SPEED RANGE	20 - 275 RPM	20 - 275 RPM	16 - 195 RPM
TAPER IN SPINDLE SLEEVE	MT-5	MT-5	MT-5
SPINDLE BORE	104 mm	104 mm	104 mm
SPINDLE NOSE	BAYONET SIZE 11	BAYONET SIZE 11	BAYONET SIZE 15
No. OF BRITISH THREADS	28	28	28
RANGE OF BRITISH THREADS	1.5 TO 22 TPI	1.5 TO 22 TPI	1.5 TO 22 TPI
No. OF METRIC THREADS	22	22	22
RANGE OF METRIC THREADS	0.75 TO 16 mm PITCH	0.75 TO 16 mm PITCH	0.75 TO 16 mm PITCH
No. OF FEEDS	28	28	28
RANGE OF LONGITUDINAL FEEDS	0.20 TO 3.0 mm / REV	0.20 TO 3.0 mm / REV	0.20 TO 3.0 mm / REV
RANGE OF TRANSVERSE FEEDS	0.033 TO 0.50 mm / REV	0.033 TO 0.50 mm / REV	0.033 TO 0.50 mm / REV
LEAD SCREW DIAMETER / PITCH	50.8 mm / 2 TPI	50.8 mm / 2 TPI	50.8 mm / 2 TPI
TAIL STOCK SPINDLE DIAMETER	95 mm	105 mm	115 mm
TAPER IN TAIL STOCK QUILL	MT-5	MT-6	MT-6
CROSS SLIDE TRAVEL	430 mm	560 mm	660 mm
COMPOUND SLIDE TRAVEL	230 mm	230 mm	300 mm
TAIL STOCK SLEEVE TRAVEL	220 mm	310 mm	410 mm
TOOL POST SQUARE	200 x 200 mm	200 x 200 mm	230 x 230 mm
TOOL SHANK SIZE	38 x 38 mm	38 x 38 mm	38 x 38 mm

MODEL	4310 - 5610 - 6610														
	/1			/2			/3			/4			/5		
Length of Bed	3750	3950	4270	4750	4950	5270	5750	5950	6270	6750	6950	7270	7750	7950	8270
Admit Between Centre	2000	2000	2000	3000	3000	3000	4000	4000	4000	5000	5000	5000	6000	6000	6000
Net Weight (approx.)	6250	7750	10250	7300	9300	11300	9500	11500	13500	11200	13700	15200	12800	15300	16800
Motor HP	15	15	20	15	15	20	15	15	20	20	20	25	20	20	25

THE MANUFACTURER RESERVE RIGHTS TO MODIFY DESIGN, SPECIFICATIONS, MECHANISM, ETC. TO IMPROVE THE PERFORMANCE OF THIS MACHINE WITHOUT NOTICE.

GUJARAT LATHE MANUFACTURING CO. PVT. LTD.

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