



CENTRE LATHE

FAMOUS FOR
QUALITY SINCE

* 1975 *

The Only Machine in India offering spindle run out less than 10 MICRONS



Salient Features

- Accuracy within 10 Micron in Ovality.
- Rigid and box section type seasoned bed provides maximum torsional stiffness.
- Apron with oil bath.
- Optional thread & feed Gear box for easy selection of wide range of threads and feeds through levers.
- Wide variety of optional accessories for higher productivity.

Built in Accuracy

- Flame hardened and ground bed for sustained accuracy.
- All major castings are naturally seasoned for retaining accuracy for very long time.
- Critical components are machined on imported and precision mother machines.
- Wear parts are made from alloy steel.
- Main Spindle is rigid and accurate made out of alloy steel hardened and ground, mounted on Gun Metal Bush or Precision Taper Roller Bearing.
- Alloy Steel Main Spindle, Worm, Cross Slide Screw and Tail Stock Screw threads produced on Thread Whirling Machine.
- Tail Stock spindle are hardened and its external and internal degree also ground.
- Each machine undergoes the tests recommended by INDIAN STANDARDS before leaving the factory.

Interchangeability

- All components are machined using jigs and fixtures on imported and precision mother machines to close tolerance thus providing easy interchangeability.

Six Feed Gear Box



Norton Gear Box



Standard Accessories

- Set of Change Gears Inch, Centre Adaptor, Dead Centres-2 Nos., Chuck Plate 200 mm & 270 mm, Reversible Switch, Motor V-belt (B-72) 2Nos., Nylon Flat Belt, Tool Post Key, Motor Pulley, Carriage Tray, Oil Can, Plastic Can, Screw Driver, Spanners-3 Nos. Spare Parts Book.

Optional Enhance

- Height of Centre 305 mm, 80 mm Spindle Bore only with Flat Belt Bush Type Head Stock, Norton Gear Box, Six Feed Gear Box, Long Slide with Rear Tool Post, Taper Turning Attachment, Steady Rest, Follow Rest, Face Plate, Carrier Plate, Metric Change Gears, Coolant Pump with Tank.

Technical Specification

DESCRIPTION	STANDARD 235 MM CENTRE MACHINE	OPTIONAL 305 MM CENTRE MACHINE	80 MM SPINDLE BORE MACHINE
Admit Between Centre ATUL - 0 (5'.6" Feet)	500 mm	-----	-----
ATUL - 1 (7'.0" Feet)	965 mm	965 mm	965 mm
ATUL - 2 (9'.0" Feet)	1575 mm	1575 mm	1575 mm
ATUL - 3 (10'.0" Feet)	1905 mm	1905 mm	1905 mm
ATUL - 4 (12'.0" Feet)	2515 mm	2515 mm	2515 mm
ATUL - 5 (14'.0" Feet)	3100 mm	3100 mm	3100 mm
Height of Centre over Flat Bed Ways	235 mm	305 mm	305 mm
Maximum Swing over Bed	455 mm	595 mm	595 mm
Maximum Swing over Cross Slide	255 mm	395 mm	395 mm
Maximum Swing in Gap	775 mm	915 mm	915 mm
Length of Gap in Front of Face Plate	200 mm	200 mm	200 mm
Bed Type	2V & 2 Flat	2V & 2 Flat	2V & 2 Flat
Bed Width	325 mm	325 mm	325 mm

Head Stock

Number of Spindle Speed	8	8	8
Range of Spindle Speed	30 to 550 RPM	30 to 550 RPM	30 to 550 RPM
Spindle Nose Dia	76.2 mm	76.2 mm	104.775 mm
Spindle Bore	52 mm	52 mm	80 mm
Spindle Threads	6 TPI	6 TPI	6 TPI
Spindle Morse Taper	MT-6	MT-6	MT-6
Spindle Morse Taper with Adaptor	MT-4	MT-4	MT-4
Nylon Flat Belt	50 X 1900 mm	50 X 1900 mm	50 X 1900 mm
Head Stock V-Belt	C-75	C-75	-----

Carriage & Compound

Cross Slide Dimensions	200 X 280 mm	200 X 470 mm	200 X 470 mm
Cross Slide Travel	250 mm	350 mm	350 mm
Compound Slide Travel	140 mm	140 mm	140 mm
Tool Section	25 X 25 mm	25 X 25 mm	25 X 25 mm

Tail Stock

Spindle Diameter	50 mm	50 mm	50 mm
Spindle Travel	180 mm	180 mm	180 mm
Spindle Morse Taper	MT-4	MT-4	MT-4

Threads

Number of Threads Range in Metric	13	13	13
Number of Threads Range in Inch	19	19	19
Number of Pitch Range in Metric	1 TO 6 PITCH	1 TO 6 PITCH	1 TO 6 PITCH
Number of Pitch Range in Inch	2 TO 24 TPI	2 TO 24 TPI	2 TO 24 TPI
Lead Screw Diameter	38 MM	38 MM	38 MM
Lead Screw Threads	4 TPI	4 TPI	4 TPI

Motor

Electric Motor (OPTIONAL)	3-HP	3-HP	3-HP
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Note : In our constant effort to improve our machine, we reserve the right to change any of the technical specifications without prior notice.