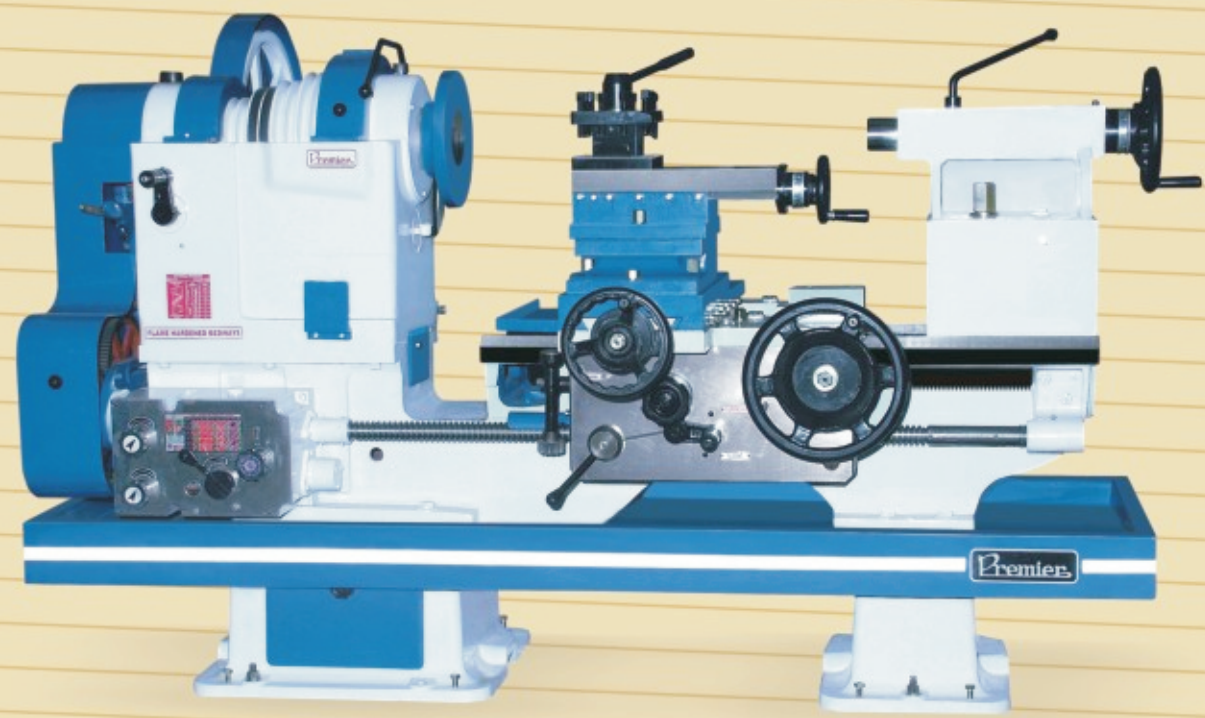


SINCE
1971

Premier®

LATHE MACHINE



Mfg. By.

Premier Lathe Mfg. Co.

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The lathe is an ancient tool, dating at least to the Egyptians and, known and used in Assyria, Greece, the Roman and Byzantine Empires.

The origin of turning dates to around 3000BC when the Egyptians first developed a two-person lathe. One person would turn the wood work piece with a rope while the other used a sharp tool to cut shapes in the wood. The Romans improved the Egyptian design with the addition of a turning bow. Early bow lathes were also developed and used in Germany, France and Britain. In the Middle Ages a pedal replaced hand-operated turning, freeing both the craftsman's hands to hold the woodturning tools. The pedal was usually connected to a pole, often a straight-grained sapling. The system today is called the "spring pole" lathe. Spring pole lathes were in common use into the early 20th Century. A two-person lathe, called a "great lathe", allowed a piece to turn continuously (like today's power lathes). A master would cut the wood while an apprentice turned the crank.

During the industrial revolution the lathe was motorized, allowing wooden turned items to be created in less time and allowing the working of metal on a lathe. The motor also produced a greater rotational speed, making it easier to quickly produce high quality work.

Hi-Cut Lathe Machine

Premier[®]
LATHE MACHINE

Technical Specification

Capacity	Standard Center Height 16" - 405 mm	Optional Center Height 18" - 455 mm
Center height	16" - 405 mm	18" - 455 mm
Swing over bed	30" - 760 mm	34" - 865 mm
Swing over cross slide	20" - 500 mm	24" - 610 mm
Swing in gape	46" - 1170 mm	50" - 1270 mm
Bed		
Bed length	Admit Between Center	
HI-CUT - 1 (7' - 0" - 2135 mm)	31" - 800 mm	
HI-CUT - 2 (9' - 0" - 2745 mm)	54" - 1370 mm	
HI-CUT - 3 (10' - 0" - 3050 mm)	66" - 1680 mm	
HI-CUT - 4 (12' - 0" - 3660 mm)	90" - 2280 mm	
HI-CUT - 5 (14' - 0" - 4270 mm)	114" - 2900 mm	
HI-CUT - 6 (16' - 0" - 4870 mm)	138" - 3500 mm	
HI-CUT - 7 (18' - 0" - 5500 mm)	162" - 4100 mm	
HI-CUT - 8 (20' - 0" - 6100 mm)	186" - 4700 mm	
HI-CUT - 9 (22' - 0" - 6700 mm)	210" - 5300 mm	
HI-CUT - 10 (24' - 0" - 7300 mm)	234" - 5900 mm	
HI-CUT - 11 (26' - 0" - 8000 mm)	258" - 6550 mm	
HI-CUT - 12 (28' - 0" - 8500 mm)	282" - 7150 mm	
Bed type	2 V & 2 Flat	
Bed width	18" - 455 mm	
Length of gape in front of face plate	10" - 250 mm	
Head Stock		
Number of spindle speed	8	
Range of spindle speed	30 to 250 RPM	
Spindle nose diameter	4" - 100 mm	
Spindle bore	3.1/8" - 80 mm	
Spindle threads	6 TPI	
Spindle morse taper (Inside)	MT - 4	
Carriage & Compound		
Cross slide dimension	12" - 300 mm x 22" - 560 mm	
Cross slide travel	16" - 405 mm	
Compound slide dimension	17" - 430 mm x 7" - 175 mm	
Compound slide travel	10" - 250 mm	
Tool post square	7" - 175 mm	
Tool shank section	1.1/4" - 32 mm x 1.1/4" - 32 mm	
Tail Stock		
Spindle ram diameter	3" - 75 mm	
Spindle ram travel	10" - 250 mm	
Spindle morse taper	MT - 5	
Threads		
Number of threads range in metric	13	
Number of threads range in inch	19	
Number of pitch range in metric	1 to 6 PITCH	
Number of pitch range in inch	2 to 24 TPI	
Lead screw diameter	1.3/4" - 45 mm	
Lead screw threads	2 TPI	

Special Features

- 1) Flame hardened bed ways.
- 2) Bed is made from high quality cast iron and strictly inspected with microlevel & straight edge.
- 3) Headstock spindle is made from high tensile steel duly hardened & ground.
- 4) Apron is totally enclosed oil bath system with lever type arrangement for automatic feeds.
- 5) Tail stock spindle is hardened & ground, made from alloy steel.
- 6) Meticulous care is taken in selecting the right raw material for every component. Each & every component is passed through strict quality control.
- 7) Machine accuracy is tested as per IS : 1878 (Part - I) 1971.

Standard Accessories

Chuck back plate, Tool post spanner, Centre adapter, Dead centres - 2 nos, Motor pulley, Change gear set.

Optional Accessories

Face plate, Steady rest, follow rest, Carrier plate, Full or Semi norton gear box, Rear tool post with extended cross slide, Coolant pump with tank and fittings, Taper turning attachment, Machine lamp, Electric motor, R/f switch, Motor vee belt, Dog chuck, True chuck, Spindle hollow (4.1/8" - 100 mm, 5.1/8" - 130 mm, 6.1/8" - 155 mm)

Electrical

Motor Recommended 7.5 H.P / 5.5 KW

Colour Option

Green / Grey / Blue (Double Tone Colour at Extra Cost)

General Specification

MODEL	Machine Weight (Approx.) Kgs.	Floor Space (Approx.) L x W x H
HI-CUT - 1	2200 kgs.	2500 x 1675 x 1550 mm
HI-CUT - 2	2400 kgs.	3100 x 1675 x 1550 mm
HI-CUT - 3	2700 kgs.	3400 x 1675 x 1550 mm
HI-CUT - 4	3000 kgs.	4000 x 1675 x 1550 mm
HI-CUT - 5	3300 kgs.	4600 x 1675 x 1550 mm
HI-CUT - 6	3700 kgs.	5200 x 1675 x 1550 mm
HI-CUT - 7	4100 kgs.	5800 x 1675 x 1550 mm
HI-CUT - 8	4500 kgs.	6400 x 1675 x 1550 mm
HI-CUT - 9	4900 kgs.	7000 x 1675 x 1550 mm
HI-CUT - 10	5500 kgs.	7600 x 1675 x 1550 mm
HI-CUT - 11	6000 kgs.	8300 x 1675 x 1550 mm
HI-CUT - 12	6500 kgs.	8800 x 1675 x 1550 mm

- The above specifications are approximate and subject to change without prior notice as improvements are made from time to time.
- All The parts shown in photo are not included in standard accessories.