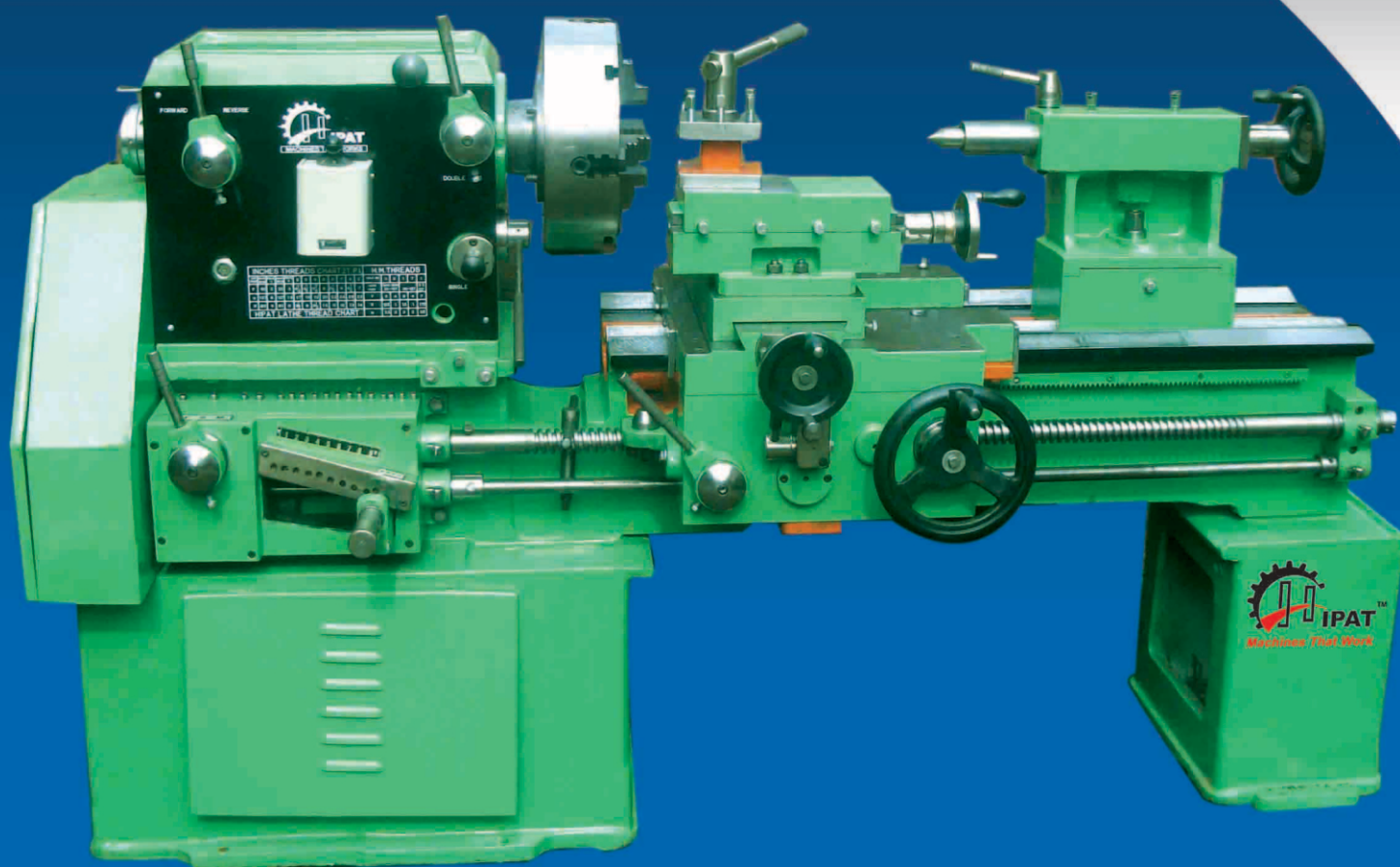




# PRECISION CENTRE LATHE MACHINES





**"HIPAT" CENTER LATHES** are well suited for all common turning surfacing and screw cutting operation with accuracy conforming to nearby grade- 1 limits. These are specially designed for continuous light and heavy duty job and to give prolonged efficient life. These lathes are worthy of a place in every machine shop where economy of operation, precision and reliability are primary considerations.

**THE BED** is made of close grained cast iron, having unusual strength and long wearing qualities. It is machined and ground to finish and is well braced to withstand vibration free operation, under heavy cutting load. The casting is fully seasoned and removal gap piece is fixed.

**HEAD STOCK :** The flat seat of headstock over the bed is perfectly matched by precision hand scraping. Its spindle is made from high carbon steel which rotates on two cylindrical split type gun- metal bushes of grade 1 composition both at the front and at the back for smooth running and perfect balancing. The machines are also made with headstocks fitted with taper roller thrust bearings. During the operation of the machine eight different feed movements can be arranged by means of specially constructed four step cone extraction V-Belt gear mechanism. The headstock gears have HELICAL HOB - CUT TEETHS.

**THE APRON** is of double well design with independent drive motion for feeds and screw cutting. Simultaneous arrangement of feed and screw cutting is prevented by an interlock mechanism.

**THE TAIL STOCK** is of special and sturdy design. It is guided inverted 'V' and flat way bed independent of the saddle guides and has on off setting device for taper turning.

**THE SADDLE** is of heavy design for stable rigid longitudinal movement. A Compound Rest accurately graduated is mounted on the saddle for conical turning and can be swivelled on either side. A revolving four way steel Toolpost is provided. The rack is of steel with machine cut teeth.

### TECHNICAL SPECIFICATIONS

MODEL	HL-4	HL-6	HL-8	HL-10	HL-12	HL-16	HL-20
Length of Bed	4'-6"	6'-0"	8'-0"	10'-0"	12'-0"	16'-0"	20'-0"
Width of Bed	12"	14"	16"	18"	20"	22"	22"
Centre from Bed	10"	12"	14"	16"	18"	20"	20"
Width of gap	5"	9"	12"	14"	19"	19"	19"
Swing over Saddle ( dia)	10"	16"	21"	24"	26"	30"	30"
Swing in Gap ( dia)	28"	36"	41"	47"	54"	60"	60"
Admit between centres	2'-3"	3'-0"	4'-6"	5'-8"	7'-6"	11'-0"	15'-0"
Hollow Spindle	1.3/4"	2.1/8"	3.1/8"	3.5/8"	4.1/8"	4.1/8"	4.1/8"
No. of Spindle Speeds	6	6	6	6	6	6	6
Dia. of Leadscrew	1.3/8"	1.5/8"	1.5/8"	1.1/2"	1.3/4"	1.3/4"	2"
Dia. of Feedshaft	1"	1.1/8"	1.1/8"	1.3/8"	1.3/8"	1.3/8"	1.1/2"
Power Required	1 H.P.	2 H.P.	3 H.P.	3 H.P.	5 H.P.	5 H.P.	7.5 H.P.
R. P. M of motor ( Approx)	1440	1440	960	960	960	960	960
Nett Weight ( Approx)	800 Kgs.	1200 Kgs.	1800 Kgs.	2300 Kgs.	2800 Kgs.	4200 Kgs.	5200 Kgs.

## HIPAT MACHINE TOOLS

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