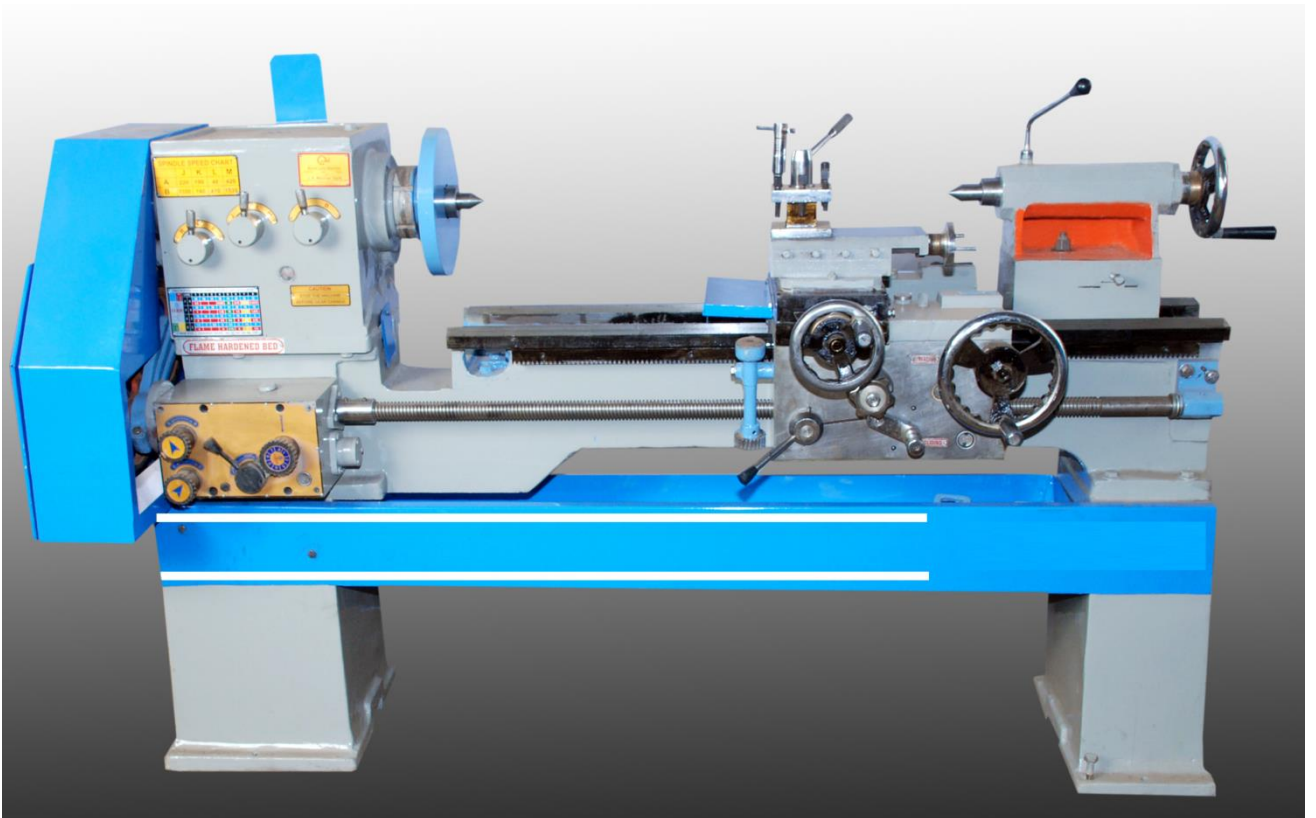




**CENTRE LATHE WITH DIGITAL READOUT (X & Z AXIS)  
MAKE : SI/ MODEL : SI-LA-1000**



**Address : Plot No. 109-110/2, Lodhika Industrial Estate of Revenue Survey No. 51P, GIDC Area, Vaidi Lodhika,  
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**CENTRE LATHE WITH DIGITAL READOUT (X & Z AXIS)  
MAKE : SI/ MODEL : SI-LA-1000**

<b>TECHNICAL SPECIFICATION</b>	
<b>MACHINE SPECIFICATION</b>	
Distance between the centres	1000mm
Centre Height	260mm
Swing over Bed	575 mm
Swing over Cross Slide	350mm
Bed Width	415 mm
Cross slide travel	300mm
Weight of the machine	2300 kg
Compound slide travel	150mm
<b>WORK SPINDLE</b>	
Type of spindle	Metric 60
Size of Spindle	130
Spindle Taper	MT5
Spindle Nose/Bore	A2-6/53mm
Taper Bore in Spindle As per IS 2582- 1972 with latest Amendment	Metric 60
Taper Bore in Spindle sleeve As per IS 1715-1986 with latest Amendment	MT5
Bore in spindle	50 mm
Chuck	3 Jaw self centred chuck
<b>TOOL SLIDE</b>	
Graduation of longitudinal scale on apron box hand wheel	0.1mm
Graduation of scale on cross slide spindle	0.05 mm
Graduation of scale on compound slide spindle	0.05 mm
Type of tool holder	Quick type tool post
Tool shank size as IS 1983:1958 with latest Amendment	25x25 mm
<b>TAIL STOCK WITH HAND WHEEL</b>	
Stock of quill	180 mm
Diameter of Centre sleeve	75 mm
Tail stock Spindle Taper as per IS 1715:1986 with latest Amendment	MT 5
Scale graduation on hand wheel	3mm
Sleeve travel type (tail stock)	Manual
Tail stock barrel travel	175mm

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**CENTRE LATHE WITH DIGITAL READOUT (X & Z AXIS)  
MAKE : SI/ MODEL : SI-LA-1000**

**TECHNICAL SPECIFICATION**

**FEEDS & THREADS**

Feed Range (Longitudinal)	0.04-2.0 mm /rev
Feed Range (Cross)	0.025-1.0 mm/rev
Lead Screw Pitch	6mm
Metric Threads	48 from 0.5-28mm
Modular Thread	40 from 0.25-14mm
Pitch Diametric threads	43 from 112.2 mm

**LUBRICATION SYSTEM**

Lubrication system	as per IS 11118
Type of lubrication	Dry sump Lubrication

**DRIVE**

Drive	Gear Drive
No. of Spindle speed in forward direction	16
No. of Spindle speed in reverse direction	7
Spindle speed range in forward direction	40-2000
Spindle speed range in reverse direction	60-2000

**MOTOR & POWER SUPPLY**

Main motor power	11 Kw
Electric Equipment	Motor and control gear for operation on 415 V, 3 phase, 50 Hz 4 wire A.C. supply with Ammeter

**COOLANT TANK WITH PUMP**

Coolant pump output	IS 2161:1962 with latest Amendment 0.1 Kw
Coolant pump speed in Rev/min	2800 rev/min
Coolant pump discharge at maximum working height (L/min)	IS 2161:1962 with latest Amendment 30 L/min
Coolant tank capacity	18 Litre





**CENTRE LATHE WITH DIGITAL READOUT (X & Z AXIS)  
MAKE : SI/ MODEL : SI-LA-1000**

**TECHNICAL SPECIFICATION**

**CONSTRUCTION OF MACHINE AND STANDARDS**

Heavily ribbed alloy cast bed. Hardened and ground alloy steel guide ways. Main slide coated with least wearing, self-lubricating. Cross slide with backlash eliminator and fitted with compound slide and tool post. Hardened and ground spindle. Heat treated and ground gears and shafts in headstock (Oil-dipped). Machine Bed and Tail stock Casting Grade Confirming to FG-260 with Hardness 180-230 BHN as per IS 11118-1997. Tailstock Sleeve case Hardening steel 15Ni7Cr4Mo2 Hardened and ground to a hardness of 58- 62 HRC as IS 11118- 1997. Head stock drive gears confirming to alloy steel material specification 15 Ni 7Cr 4 Mo2, Hardened 58-62 HRC and profile ground with 0.8 micron surface roughness Ra value. Main spindle confirming to C2R grade Forged steel and Hardened 58-62 HRC and profile ground with 0.8 micron surface roughness Ra value. Main spindle bearing SKF make, spindle bearing High precision class double row Taper roller bearings at Front & Single row taper roller bearing as back. Lead screw ground profile & pitch accuracy 0.01 mm over length of 60 mm. Lathe machine conforming to IS 210:1993 (Scheme of testing and inspection for certification of Gray Iron Casting). Machine confirming Dynamically Balanced Spindle of more than 3m/sec. Cooling system Requirement as per IS 11118. Colour of the lathe machine as per IS 5:1978. Mechanical guarding as per IS 9474:1980. Noise Emitted by machine as per IS 10998:1984 Lathe machine conforming to IS 6893-1988 part 1

**ACCESSORIES**

Universal Face plate as per spindle dia.300 mm, 4-jaw independent chuck, dia.250 mm (SECO), 3-jaw self-centring chuck, dia.250 mm (SECO), Quick change tool post with spanner, Machine lamp, Revolving centre 3000 RPM, 0.005mm run out, Dog carrier (Dia.10 to Dia.50 in steps of 10 mm), Splash guards, Moving steady rest and stationary steady rest, Chip tray, Taper turning attachment, Chuck Guard, Hand wheel operated Collect Chuck, Longitudinal stop, Service tools, One quick change tool post with 5 tool holders, Rotating centre with MT5 shank, One reduction sleeve socket metric 60/MT4, One 60 degree centre with MT5 shank, One 60 degree centre with MT4 shank, One set of hand tools, Special tool kit consisting of turning tools, parting tool, external threading tool with a set of corresponding inserts for Lathe Machine, Manual, Driving plate for carriers.





**HEAVY DUTY CENTRE LATHE WITH DIGITAL READOUT (X & Z AXIS)  
MAKE : SI/ MODEL : SI-LA-1500L**



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**HEAVY DUTY CENTRE LATHE WITH DIGITAL READOUT (X & Z AXIS)  
MAKE : SI/ MODEL : SI-LA-1500L**

**TECHNICAL SPECIFICATION**

**MACHINE SPECIFICATION**

Distance between the centres	1500mm
Centre Height	320mm
Swing over Bed	640mm
Swing over Cross Slide	420mm
Bed Width	415mm
Cross slide travel	300mm
Floor space	1100×3000 mm
Weight net.	2700 kg
Compound slide travel	150mm

**WORK SPINDLE**

Type of spindle	Metric 60
Size of Spindle	108mm to 133 mm
Spindle Taper	MT5
Spindle Nose/Bore	A2-8/80mm
Taper Bore in Spindle As per IS 2582-1972 with latest Amendment	Metric 60
Taper Bore in Spindle sleeve As per IS 1715-1986 with latest Amendment	MT5
Bore in spindle	80 mm
Chuck	3 and 4 Jaw self centred chuck

**TOOL SLIDE**

Graduation of longitudinal scale on apron box hand wheel	0.1 mm
Graduation of scale on cross slide spindle	0.02 mm
Graduation of scale on compound slide spindle	0.05 mm
Type of tool holder	Quick type tool post
Tool shank size as IS 1983:1958 with latest Amendment (mm x mm)	25mm X 25mm

**TAIL STOCK WITH HAND WHEEL**

Stock of quill	200 mm
Diameter of Centre sleeve	90 mm
Tail stock Spindle Taper as per IS 1715:1986 with latest Amendment	90/MT5
Scale graduation on Spindle graduation	1 mm
Scale graduation on hand wheel	0.05 mm
Sleeve travel type (tail stock)	Manual / 200 mm
Tail stock barrel travel	175mm

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**HEAVY DUTY CENTRE LATHE WITH DIGITAL READOUT (X & Z AXIS)  
MAKE : SI/ MODEL : SI-LA-1500L**

**TECHNICAL SPECIFICATION**

**FEEDS & THREADS**

Feed Range (Longitudinal)	60 from 0.04-2.15 mm/rev
Feed Range (Cross)	0.02-1.12 mm/rev
Lead Screw Pitch	6mm
Metric Threads	48 from 0.5-28mm
Whitworth Thread	56-1 TPI
Modular Thread	0.25-12 mm
Pitch Diametric threads	43 from 112.2
British thread range in TPI	56 to 1 TPI

**DRIVE**

Drive	Gear Drive
No. of Spindle speed in forward direction	16
No. of Spindle speed in reverse direction	5
Spindle speed range in forward direction	16 from 32-1632
Spindle speed range in reverse direction	7 from 48-1150

**MOTOR & POWER SUPPLY**

Main motor power	11 Kw
Electric Equipment	Motor and control gear for operation on 415 V, 3 phase, 50 Hz 4 wire A.C. supply with Ammeter

**COOLANT TANK WITH PUMP**

Coolant pump output	As per IS 2161:1962 with latest Amendment 0.1 Kw
Coolant pump motor	0.1 kw
Coolant pump speed in Rev/min	2800 rev/min
Coolant pump discharge at maximum working height (L/min)	As per IS 2161:1962 with latest Amendment 30 L/min
Coolant tank capacity	18 Litre

**LUBRICATION SYSTEM**

Lubrication system	Lubrication system is required as per IS 11118
Type of lubrication	Dry sump Lubrication







## HEAVY DUTY CENTRE LATHE WITH DIGITAL READOUT (X & Z AXIS) MAKE : SI/ MODEL : SI-LA-1500L

### TECHNICAL SPECIFICATION

#### CONSTRUCTION OF MACHINE AND STANDARDS

Heavily ribbed alloy cast bed. Hardened and ground alloy steel guide ways. Cross slide with backlash eliminator and fitted with compound slide and tool post. Hardened and ground spindle. Heat treated and ground gears and shafts in headstock (Oil-dipped). Machine Bed and Tail stock Casting Grade Confirming to FG-260 with Hardness 180-230 BHN as per IS 11118-1997 with latest amendment. Tailstock Sleeve case Hardening steel 15Ni7Cr4Mo2 Hardened and ground to a hardness of 58- 62 HRC as IS 11118- 1997 with latest amendment. Head stock drive gears confirming to alloy steel material specification 15 Ni 7Cr 4 Mo2, Hardened 58-62 HRC and profile ground with 0.8 micron surface roughness Ra value Main spindle confirming to C2R grade Forged steel and Hardened 58-62 HRC and profile ground with 0.8 micron surface roughness Ra value. Main spindle bearing SKF spindle bearing High precision class double row Taper roller bearings at Front & Single row taper roller contact bearing as back. Lead screw ground profile & pitch accuracy 0.01 mm over length of 60 mm. Lathe machine conforming to IS 210:1993 (Scheme of testing and inspection for certification of Gray Iron Casting). Machine confirming Dynamically Balanced Spindle of more than 3m/sec. Cooling system Requirement as per IS 11118. Colour of the lathe machine as per IS 5:1978. Mechanical guarding as per IS 9474:1980. Noise Emitted by machine as per IS 10998:1984. Lathe machine conforming to IS 6893-1988 part 1

#### ACCESSORIES

Face Plate, 4-jaw independent chuck, (SECO) , 3-jaw self-centring chuck (SECO), Quick change tool post with spanner, Machine lamp, Revolving centre 3000 RPM, 0.005mm run out, Dog carrier (Dia.10 to Dia.50 in steps of 10 mm), Splash guards, Moving steady rest and stationary steady rest, Chip tray, Taper turning attachment, Chuck Guard, Hand wheel operated Collect Chuck, Longitudinal stop, Service tools, Grinding attachment, Special tool kit consisting of turning tools, parting tool, external threading tool with a set of corresponding inserts.

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