

Bed:

The grain structure of cast-iron of the bed is carefully controlled. Rigid & box section type bed provides maximum torsional stiffness & eliminates stresses. Bed is heavily ribbed and robust in construction. The guide ways are flame hardened & then accurately machined & precision ground, ensure lasting accuracy & prove perfect fit with the saddle & tailstock. Hardened & ground bed ways, considerably increase the accuracy & service life of the machine.

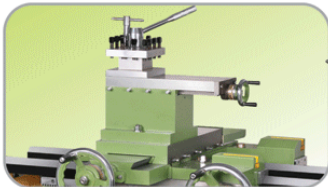
Headstock:

It has a flat / V-Belt drive. Main spindle is rigid & accurate made out of alloy steel, precision ground & mounted on gun metal bush bearings / 2 precision taper roller bearings & 1 Ball Bearing (Triple Bearings System, at Extra Cost) for precision machining, accuracy & workmanship. Main spindle is Induction hardened & double grind finished on bearing size. Extra Heavy Duty Helical Gears, Pulleys are fitted in the Head-stock.



Saddle:

Designed with the rigid seating on bed movement & increased bearing area to achieve greater rigidity. Saddle is accurately handscrapped for rigid seating on bed. Accurate collars are fitted to cross-slide & compound slide attached with wedges for easy adjustment. The guide ways are protected against chips by guards, bolted to the saddle. Wipers clear away chips & dirt that could scratch & damage the bed ways.



Apron:

It is totally enclosed oil bath system with lever type arrangement for automatic feeds. Sliding & screw cutting motions are interlocked for safety. Oil distribution device has been arranged for all movable parts. A thread dial indicator is provided to facilitate faster & accurate screw cutting.



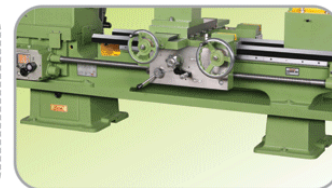
Tailstock:

Tailstock mounted on independent guide ways of bed is of robust design, with 3" heavier diameter of the spindle which provides efficient support to the job & is securely locked by means of bolt acting on grid plate under the bed ways. Setting arrangement for taper turning is provided. Tailstock spindle is hardened having external & internal degree grinding done.



Leg:

Legs are of extremely heavy structure. Design with heavy ribs to avoid vibration.



QUALITY CONTROL

1. Meticulous care is taken right from the selection of Raw Material, Machining, complete Fitting & Assembly, Trial & inspection up to final dispatch of Lathe Machine.
2. Trial of the machine is taken under expert supervision & undergoes strict inspection for most accurate results, workmanship & accuracy.
3. Components manufactured are within close tolerance, resulting into easy inter changeability.

Note: Special requirement as per customer's specification can be done. We reserve the right to modify the data & specifications without prior notice & not binding on us as part of product improvement.

Specification

BED

	SONA EHD-4/456	SONA EHD-5/456	SONA HEHD-6/456	SONA EHD-7/456	SONA EHD-8/456	SONA EHD-9/456	SONA EHD-10/456	SONA EHD-11/456
Bed Type	2 V & 2 Flat	2 V & 2 Flat	2 V & 2 Flat	2 V & 2 Flat	2 V & 2 Flat	2 V & 2 Flat	2 V & 2 Flat	2 V & 2 Flat
Bed Length	2135 mm (7')	2743 mm (9')	3048 mm (10')	3658 mm (12')	4267 mm (14')	4875 mm (16')	5450 mm (18')	6095 mm (20')
Bed Width	456 mm	456 mm	456 mm	456 mm	456 mm	456 mm	456 mm	456 mm

CAPACITY

Height of Centre	456 mm	456 mm	456 mm	456 mm	456 mm	456 mm	456 mm	456 mm
Admit Between Centre	750 mm	1370 mm	1675 mm	2280 mm	2850 mm	3450 mm	4050 mm	4650 mm
Swing Over Bed	875 mm	875 mm	875 mm	875 mm	875 mm	875 mm	875 mm	875 mm
Swing Over Cross Slide	603 mm	603 mm	603 mm	603 mm	603 mm	603 mm	603 mm	603 mm
Swing Over Carriage	425 mm	425 mm	425 mm	425 mm	425 mm	425 mm	425 mm	425 mm
Swing In Gap	1245 mm	1245 mm	1245 mm	1245 mm	1245 mm	1245 mm	1245 mm	1245 mm
Length of Gap	177 mm	177 mm	177 mm	177 mm	177 mm	177 mm	177 mm	177 mm
Length of Gap in Front of Face Plate	250 mm	250 mm	250 mm	250 mm	250 mm	250 mm	250 mm	250 mm

MAIN SPINDLE

Spindle Nose Diameter	133 mm	133 mm	133 mm	133 mm	133 mm	133 mm	133 mm	133 mm
Spindle Threads	6 TPI	6 TPI	6 TPI	6 TPI	6 TPI	6 TPI	6 TPI	6 TPI
Spindle Bore	104 mm	104 mm	104 mm	104 mm	104 mm	104 mm	104 mm	104 mm
Taper Bore in Spindle Sleeve	MT - 5	MT - 5	MT - 5	MT - 5	MT - 5	MT - 5	MT - 5	MT - 5
Spindle Speed	8	8	8	8	8	8	8	8
Spindle Range								
Spindle Drive	Flat / V - Belt	Flat / V - Belt	Flat / V - Belt	Flat / V - Belt	Flat / V - Belt	Flat / V - Belt	Flat / V - Belt	Flat / V - Belt
Spindle Mounting Front	Bush / Taper Roller	Bush / Taper Roller	Bush / Taper Roller	Bush / Taper Roller	Bush / Taper Roller	Bush / Taper Roller	Bush / Taper Roller	Bush / Taper Roller
Spindle Mounting Rear	Bush / Taper Roller	Bush / Taper Roller	Bush / Taper Roller	Bush / Taper Roller	Bush / Taper Roller	Bush / Taper Roller	Bush / Taper Roller	Bush / Taper Roller

CROSS SLIDE & COMPOUND SLIDE

Cross Slide Travel	456 mm	456 mm	456 mm	456 mm	456 mm	456 mm	456 mm	456 mm
Compound Slide Travel	279 mm	279 mm	279 mm	279 mm	279 mm	279 mm	279 mm	279 mm

TAIL STOCK

Spindle Diameter	76 mm	76 mm	76 mm	76 mm	76 mm	76 mm	76 mm	76 mm
Spindle Travel	279 mm	279 mm	279 mm	279 mm	279 mm	279 mm	279 mm	279 mm
Taper Bore in Spindle Sleeve	MT - 5	MT - 5	MT - 5	MT - 5	MT - 5	MT - 5	MT - 5	MT - 5

THREADS

Lead Screw Dia/Threads	45 mm x 2 TPI	45 mm x 2 TPI	45 mm x 2 TPI	45 mm x 2 TPI	45 mm x 2 TPI	45 mm x 2 TPI	45 mm x 2 TPI	45 mm x 2 TPI
Metric Threads: Nos/mm	13nos / 1 to 6mm Pitch	13nos / 1 to 6mm Pitch	13nos / 1 to 6mm Pitch	13nos / 1 to 6mm Pitch	13nos / 1 to 6mm Pitch	13nos / 1 to 6mm Pitch	13nos / 1 to 6mm Pitch	13nos / 1 to 6mm Pitch
Inch Threads: Nos/TPI	19nos / 2 to 24 TPI	19nos / 2 to 24 TPI	19nos / 2 to 24 TPI	19nos / 2 to 24 TPI	19nos / 2 to 24 TPI	19nos / 2 to 24 TPI	19nos / 2 to 24 TPI	19nos / 2 to 24 TPI

ELECTRICALS

Electric Motor	5 H.P.	5 H.P.	5 H.P.	7.5 H.P.	7.5 H.P.	7.5 H.P.	7.5 H.P.	7.5 H.P.
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GENERAL

Floor Sapce (LxWxH)	2515 x 1575 x 1550	3125 x 1575 x 1550	3425 x 1575 x 1550	4025 x 1575 x 1550	4650 x 1575 x 1550	5250 x 1575 x 1550	5870 x 1575 x 1550	6480 x 1575 x 1550
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Weight Approx

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Technical Data & Specifications are in mm.

STANDARD

ACCESSORIES :

- Flame Hardened Bed
- Set of Change Gears (Inch & mm)
- Chuck Plate
- 2 Nos. Dead Centres
- Centre Adaptor
- Motor Rail
- Motor Pulley
- Switch Plate
- Tool Post Key
- Belt Guard
- Chip Tray
- Thread Dial Indicator

OPTIONAL

ACCESSORIES :

- Full Norton Gear Box
- Taper Turning Attachment
- Steady Rest
- Follow Rest
- Face Plate
- Real Tool Post
- Quick Change Tool Post
- Nylon Belt
- Reversible Switch
- V-Belt for Electric Motor
- Electric Motor
- Dog Chuck
- True Chuck
- Coolant Pump with Tank
- Machine Lamp

SALIENT FEATURES OF "SONA" EXTRA HEAVY DUTY PRECISION LATHE

01. Main Spindle is induction hardened & double grind finished on the bearing size. Degree of the spindle is grind finished. Main spindle is rigid & accurate made out of alloy steel EN-8.
02. Main Spindle is mounted on 2 plain parallel graded gunmetal bush bearing / 2 precision taper roller bearings & 1 Ball Bearing (Triple Bearings at extra cost), for precision machining, accuracy & workmanship.
03. Design of the Bed is rigid & box section type. Bed is robust in construction for more strength & accurate workmanship.
04. Legs are extremely heavy & robust. Internal structure is designed extra heavy to avoid vibration.
05. High quality helical gears are fitted. All the teeth are shaved to remove run out.
06. High quality tumbler gears are fitted & made out of steel material.
07. Tailstock Spindle is hardened having external & internal degree grinding done. Heavy Duty Spindle is fitted which provides efficient support to the job.
08. Hand scrapping is done on Headstock, Saddle, Cross-slide, Compound Set, Tool Post, Tail Stock, etc. for proper & rigid seating of component which avoids vibration.
09. All screw nuts are made out of Gun Metal for minimum wear & tear.
10. Cross-slide screw nut is 3" long heavier type. Support is given to the screw rod at the back side of saddle.
11. Provision for bearings is available in Lead Screw, Cross-slide Screw Rod, Tail Stock, Apron etc. for smooth & easy traverse.
12. Color, Paint, Finishing & overall outlook of the machine is extremely attractive & eye catching.
13. All the major parts like Head Stock, Saddle, Cross-slide, Compound Set, Tool post, Tailstock, Helical Gears, Pulley Sets etc. are extremely heavy & rigid for better performance of the lathe.
14. Machine under goes strict quality control at each & every stage during production.

Company Profile

SAURASHTRA CENTRAL INDUSTRIES was established in the year 1978, in the most popular industrial city Rajkot (Gujarat). Our company has been engaged in manufacturing Precision Lathe Machines with Brand Name "Sona".

Company's Founder **Mr. Dinesh C Vora** has significant experience in lathe machine production & engineering field. Under his expert guidance & sound knowledge, company has made fantastic progress & lead the company towards success.

Our Plant is modern with its well equipped precision mother machineries & wide range of measuring instruments for testing necessary parameters. Our manufacturing unit has major production facilities in house only, enabling it to achieve highest quality standards in our "Sona" Precision Lathes.

Company has laid great emphasis on customer satisfaction. We consider our clients one of the most important organ of our organization. We are consistently delivering to them best quality products & services. Our Brand "Sona" is very popular & well known amongst our clients. Our "Sona" Precision Lathes have earned for themselves high reputation in industry as well as in Educational Institutes, Training Establishment & Engineering Colleges.

We have been registered with National Small Industrial Corporation (NSIC) & Rajkot Engineering Association (REA) & Machine Tools Manufacturing Association (MTMA).

We have setup wide Dealer Network.

We are heartily thankful to our Dealers, for the kind co-operation & whole hearted support extended towards us during all this years. After Sales Service of our Dealers are both efficient & prompt. Spare parts stocked by our Dealers will meet your replacement need immediately at your city it self.

Today our Brand "Sona" is most trusted Brand in Lathe Machines Industries, making it right choice for the users.

Our clients so far have complimented us on our products & services. We hope to win your confidence & trust too.

Assuring you of our Best Service & Prompt Attention always.

INFRASTRUCTURE :

"Sona" precision lathes are manufactured at most sophisticated plant which is well equipped with its precision mother machineries & wide range of updated measuring instruments. Our manufacturing unit covers huge shed where assembly line is in operation smoothly to deliver the machines to our clients in time. We also have in house spares department, where raw material as well as finished goods & components are stocked in bulk quantity.

WORKFORCE :

We have highly qualified & technically sound staff, which helps us to manufacture any kind of special purpose machines as per clients requirement. Team of dedicated, well experienced & qualified professionals play very important role in maintaining high quality standards in our "Sona" precision lathe machines.

CUSTOMER SATISFACTION :

Due to our best services & prompt attention towards every single client, we have developed wide client network. We take careful measures & close attention in understanding & fulfilling clients requirement. We believe in giving machines to clients above their expectations. Moreover, our ethical & transparent business policy, timely delivery & competitive price have helped us to gain the trust of our clients.

WHY US :

- WE DELIVER QUALITY & PRECISION LATHE MACHINES.
- WE ARE TEAM OF QUALIFIED PROFESSIONALS.
- WE OFFER TIME BOUND DELIVERY.
- WE PROVIDE TOTAL CUSTOMER SATISFACTION.
- WE ENSURE COMPETITIVE PRICING.
- ENSURE SAFE WORKING ENVIRONMENT.

Manufacturers: TM

Sona

EXTRA HEAVY DUTY PRECISION LATHE

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Dealer :



precision is our
profession

SonaTM
PRECISION LATHE



Extra Heavy Duty Lathe Machine