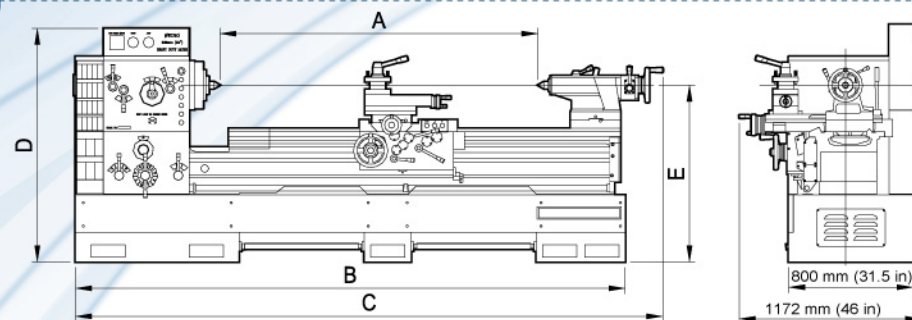


## SPECIFICATOIN



MODE	A	B	C	D	E
2480	2033 mm 80 in	3530 mm 139 in	3802 mm 150 in	1525 mm 60 in	1135 mm 45 in
24120	3093 mm 120 in	4590 mm 180 in	4862 mm 191 in	1525 mm 60 in	1135 mm 45 in
24160	4183 mm 160 in	5680 mm 223 in	5952 mm 234 in	1525 mm 60 in	1135 mm 45 in
3080	2033 mm 80 in	3530 mm 139 in	3802 mm 150 in	1603 mm 63 in	1210 mm 48 in
30120	3093 mm 120 in	4590 mm 180 in	4862 mm 191 in	1603 mm 63 in	1210 mm 48 in
30160	4183 mm 160 in	5680 mm 223 in	5952 mm 234 in	1603 mm 63 in	1210 mm 48 in

## BRIEF SPECIFICATION

MODEL		2480		24120		24160		3080		30120		30160	
NOMINAL SIZE													
Swing over bed		610 mm 24 in						760 mm 30 in					
Swing over cross slide		370 mm 14-1/2 in						530 mm 20-3/4 in					
Height of center		305 mm 12 in						380 mm 15 in					
Distance between centers		2033 mm 80"	3093 mm 120"	4183 mm 160"	2033 mm 80"	3093 mm 120"	4183 mm 160"	2033 mm 80"	3093 mm 120"	4183 mm 160"			
BED													
Width of bedways		485 mm 19 in											
Total length of bed		3320 mm 130"	4380 mm 172"	5470 mm 215"	3320 mm 130"	4380 mm 172"	5470 mm 215"						
Cap type	Swing over gap	840 mm 33 in						996 mm 39-1/2 in					
	Length of gap	515 mm 20-1/4 in											
	Width in front of face plate	340 mm 13-3/8 in											
SPINDLE													
Spindle nose mounting		D1-11 CAMLOCK											
Spindle bore		105 mm 4-1/8"											
Taper of spindle speeds		M.T.#5 (with center sleeve)											
Number of spindle speeds		18 steps (Forwer Reverse by magnetic clutch control)											
Range of spindle speed		10 - 1200 R.P.M. (With Magnetic brake)											
TOOL SLIDE													
Total travel of cross slide		375 mm 14-3/4 in											
Total travel of top slide		225 mm 9 in											
Max. size cutting tool		28 mm 1-1/8 in											
TAIL STOCK													
Total travel of barrel		195 mm 6-5/8 in											
Taper in barrel		M.T.#5											
Diameter of barrel		80 mm 3-1/8 in											
THREADS													
Lead screw diameter & pitch		Dia.38 mm Pitch 12 mm 2 T.P.I											
Number of inch threads		60											
Range of Inch threads		1/4 - 84 TPI											
Number of Metric pitches		60											
Range of Metric pitches		0.2 - 112 mm											
Number of Diametric pitches		55											
Range of Diametric pitches		1 - 240 D.P.											
Number of Module pitches		55											
Range of Module pitches		0.05 - 28 M.P											
FEEDS													
Feed rod diameter		38 mm 1-1/2 in											
Number of feed change		40											
Range of longitudinal feeds		0.040 - 5.000 mm/rev. 0.0015-0.2000 mm/rev.											
Range of cross feeds		0.015 - 4.000 mm/rev. 0.0006-0.1500 in/rev.											
MOTOR													
Main spindle motor		15 HP 11 kw											
Coolant pump motor		1/8 HP 0.1 kw											
Machine net weight		3500 kgs	4000 kgs	4500 kgs	3800 kgs	4300 kgs	4800 kgs						
Crate size		148" x 52" x 73"	189" x 52" x 73"	231" x 52" x 76"	148" x 56" x 73"	189" x 56" x 73"	231" x 56" x 76"						

※ We reserve the right to modify and improve our products.

**GOSAN** MACHINERY CO., LTD. 高尙精機股份有限公司

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AGENT

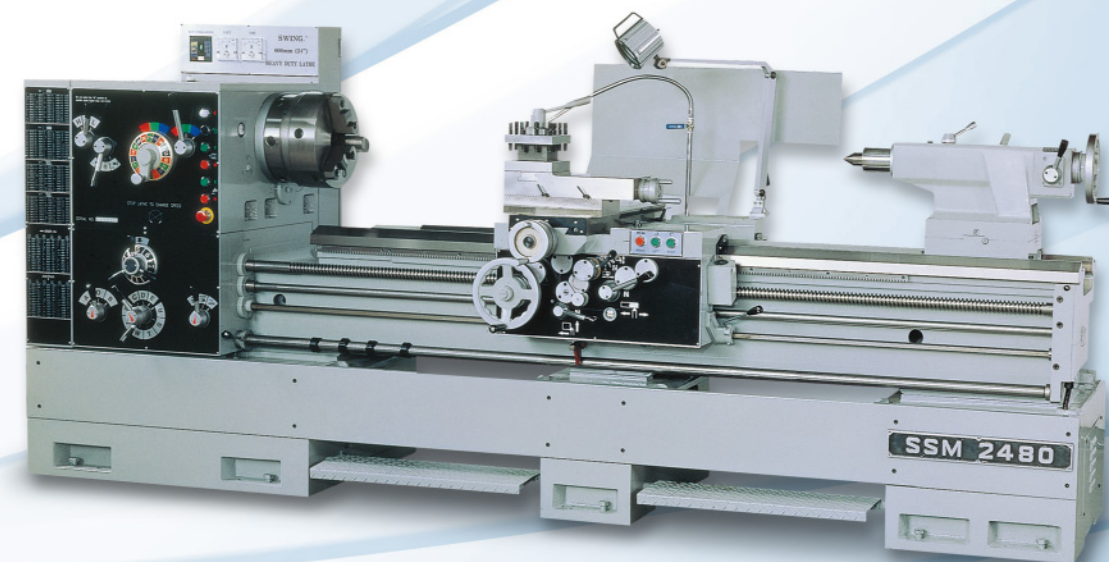
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**GOSAN**

## HEAVY DUTY LATHE

15HP Main Motor; Spindle Bore 105mm 4-1/8inch

Model : 2480 / 24120 / 24160 / 3080 / 30120 / 30160



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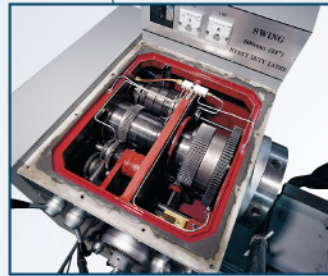
# HEAVY DUTY LATHE

## FEATURERS

- 4x1/8in.(105mm) Spindle bore; D1-11 camlock spindle nose; 3-bearing spindle support.
- 18 Spindle speeds 10-1200rpm. With electro-magnetic brake.
- Electro-magnetic clutch mounted in Headstock, for spindle speed changed without stopping motor.
- Automatic forced lubrication in headstock is moved by a direct motor drive lubrication gear pump, and oil tank is equipped in the leg of machine to minimize the cooling of oil.
- Heavy duty geared head; hardened and ground gears.
- 15HP Main spindle motor.
- Quick-change universal gearbox for inch, metric, DP, MP threading and multiple thread, all function w/o any change gear.
- Four-way rapid carriage movement.
- Automatic lubrication in saddle and apron assembly.
- Adjustable overload clutch in apron to ensure proper cutting load.
- 2 speeds tailstock barrel.
- 19in.(485mm) wide bed ways, induction hardened and ground.

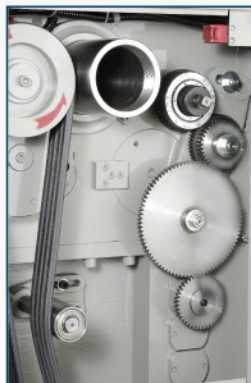
## HEADSTOCK

- Headstock is made of rigid, high grade cast iron.
- The headstock provides 18 spindle speeds 10-1200 rpm. Which are geometric progression and easily selected.
- Spindle is started, stopped and reversed by double electro-magnetic clutches, for spindle speed changed w/o stopping motor; and equipped with electro-magnetic brake.
- The D1-11 CAMLOCK spindle nose has a large hole of 4-1/8inch (105mm).
- Hardened and ground main spindle is supported by three bearings in three places (the front and middle are precision "TIMKEN" taper roller bearing, the rear is roller bearing).
- All geared headstock, Main gears are made from Chromium, Nickel, Molybdenum alloy steel and case hardened and "REISHAUER" ground.
- The automatic forced lubrication system is made by a direct motor drive lubrication gear pump lubricate all running parts, oil tank is equipped in the leg of machine to minimize the cooling of oil.



## GEARBOX

- The completely enclosed quick-change universal gearbox provides a wide range of thread cutting and feed rates, for inch, metric, DP, MP threading. Including special threads: 11-1/2 TPI, 13TPI, 13-1/2 TPI, 19 TPI, and with Multiple thread, all function without changing the end gears.
- Gearing is easily and quickly changed by levers, conveniently mounted in the front of the control panel.
- All gears are case hardened and are made of special alloy steel.
- Lubricated by oil bath, circulating lubrication system, lubricating oil from headstock flow into gearbox, after lubricating gears and shafts, and then drain into oil tank, inside of the leg.
- Feedshaft and leadscrew equipped with overload protection.



## TAILSTOCK

- The hardened and ground barrel is graduated in inches and millimeters, and has a tang for driving tools.
- The tailstock handwheel has two-speed feed, both 1:1 and 1:4, for coarse or fine drill work, for controlling precise barrel position, and easy to drill a big hole.
- Quick-acting clamps are for locking tailstock on the bed and for locking quill.



## ELECTRICAL

- The electrical equipments use the highest quality components, offering low voltage protection with a 110V(24V for CE standard) magnetic starter, and with ampere gauge and voltage gauge.
- The electrical panel is designed for easy access and fully prevent from dust and contamination.
- 15HP Main spindle motor.



## BEDWAY

- Width of bedway 19inch(485mm).
- Meehanite cast iron bed are heavily ribbed.
- The bedways are induction hardened to BRINEL 400 and above (ROCKWELL HRC 43 and above) and precision ground.

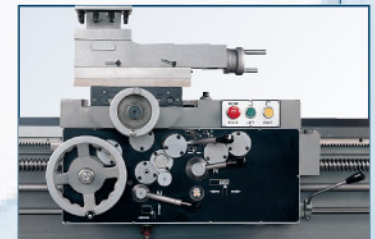
## SADDLE AND COMPOUND SLIDE

- The carriage and cross-slide is equipped with four-way rapid moving system, cross and longitudinal, moved by a feed motor equipped in the apron.
- Rapid moving control button and a spindle brake button equipped in the front of saddle.
- Saddle, cross-slide and top slide is fitted up adjustable taper gib strips for abrasion compensation.
- Cross-slide screw incorporates backlash eliminator, and is immersed in the oil bath.
- Automatic lubrication system continuously supply lubricating oil to the saddle and cross-slides and apron during motion.
- Compound rest is with a four-way toolpost.



## APRON

- Completely enclosed oil bath, double wall type apron with splash type and automatic lubrication.
- Apron handwheel disengages while thread cutting, feeding and rapid traversing.
- Automatic feeding and threading are fully interlocked to prevent simultaneous engagement of feeds and threads.
- Pull and push a knob in the front of apron, which can change the feed cutting direction from the apron, without stopping the lathe.
- Adjustable overload clutch in apron, while overload cutting, the slipping clutch system will automatically shut down the feed cutting.



## STANDARD ACCESSORIES

- Back plate for chuck
- Steady rest
- Coolant system
- 4-way toolpost
- Threading dial indicator
- 4-position auto carriage feed stop
- Main motor 15HP 11KW
- Tool box with tool kit
- Center sleeve
- Two dead centers
- Camlock spindle wrench
- Optional manual

## OPTIONAL ACCESSORIES

- 3-jaw scroll chuck 12"
- 4-jaw independent chuck 18", 20"
- Face plate 20"
- Follow rest
- Telescopic taper attachmet
- Quick change toolpost
- Chuck guard
- Live center(MT.No.5)
- Drill chuck W/arbor
- Work lamp (quartz halogen lamp)
- Splash guard
- Tool post grinder
- "CE" Standard Equipment