

A well known name for :-

PRECISION PERFECTION & DURABILITY



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products
CATALOGUE

AN ISO 9001:2000 CERTIFIED COMPANY



ABOUT US

Star Machine Tools Corporation was started in 1983. The Founder of Star Machine Tools Corporation is S. Niranjn Singh Matharoo & Later on his Son S. Amarjit Singh Matharoo and his Grandsons S. Mandeep Singh Matharoo & S. Jagjit Singh Matharoo joined hands together to convert a dream into reality. We are proud to introduce ourselves as a well established name in the manufacturer and exporter of an extensive range of lathe machines. Over more than 40+ years we have progressed rapidly and today are producing a wide range of machines that include light duty, heavy duty, extra heavy duty lathes, production lathes & special purpose machines. With a professional approach and progressive vision, we are heading steadily to achieve a position. We introduce ourselves as a renowned manufacturers and exporter of high quality Lathe Machine SINCE 1983. Our wide industry experience and a team of dedicated professionals have helped us to establish a strong market goodwill and strong client base that extends beyond the national boundaries.

Star Machine Tools Corporation is Located in Ludhiana, Punjab (INDIA). We are flourishing on the basis of our unwavering commitment to quality. The focused business approach and knowledge of our owner S. Niranjn Singh Matharoo has led us to evolve into an organization that is trusted and respected in the market for its products.

OUR PRODUCTS

Capable of functioning of long consecutive years, Our range of machines has been widely demanded by our clients in different parts of India and abroad. Highly efficient and wear & tear resistant, these machines require low maintenance. The different kinds of machines offered by us include:

- ✦ ALL GEAR HEAD LATHE
- ✦ SEMI GEAR HEAD LATHE (OUTER BELTS)
- ✦ CONE PULLEY DRIVE HEAD LATHE (INNER BELTS)
- ✦ PRODUCTION LATHE
- ✦ HEAVY DUTY LATHE
- ✦ EXTRA HEAVY DUTY LATHE (FOR SUGAR MILLS & ROLLING MILLS)
- ✦ MULTI SPINDLE DOUBLE HEAD BORING
- ✦ SPECIAL PURPOSE MACHINES

OUR STRENGTHS:

Quality: Our products are procured from the best Raw Material, Who have excellent record of accomplishment of delivering high quality products, Our Machines have been designed to cater need of sustained accuracy (5-10 Microns in ovality) and superb Finishing. Our Lathe Machines are guaranteed for their original design and are tested to the graded limits with high precision tools.

Voluminous Stock: We maintain a voluminous stock to meet immediate bulk requirements of the market.

On Time Delivery: We strictly follow timely delivery schedules and strive hard to deliver products within the stipulated time period.

Competitive Pricing: We offer products at competitive prices and this gives us a cutting edge over our competitors.

MODEL : ALL GEARED-100



MODEL : ALL GEARED-50



STANDARD ACCESSORIES (ALL GEARED) : Independent Jaw Chuck, Self Centering Chuck, Electric Motor with Electromagnetic Brake, Rev/Forward Control Panel, Electric Coolant Pump with tank & fittings, Machine Lamp, Face Plate, Dead Centers, Moving Steady, Moving Stationery Steady, Thread Indicator Dial, Dead Center Adapter, Tool Post Bolt Spanner, Chip Tray And Splash Guard.

EXTRA ACCESSORIES : Taper Turning Attachment, Grinding Attachment & Quick Change Tool Post (Set of Six).

TECHNICAL SPECIFICATION

MODEL	AG-50	AG-60	AG-65	AG-80SP	AG-65	AG-80	AG-100
LENGTH OF BED	1525	1830	1980	2440	1980	2440	3050
WIDTH OF BED	280	280	317	317	355	355	355
HEIGHT OF CENTER	225	225	250	250	305	305	305
SWING OVER BED	430	430	480	480	590	590	590
SWING OVER CROSS SLIDE	265	265	290	290	350	350	350
SPINDLE HOLLOW	42	42	53	53	65	65	65
ADMIT BETWEEN CENTRES	700	850	1000	1500	800	1250	2000
NO. OF SPINDLE SPEEDS	8	8	8	8	8	8	8
RANGE OF SPINDLE SPEED R.P.M.	50-1200	50-1200	50-1200	50-1200	45-900	45-900	45-900
NO. OF FEEDS	32	32	32	32	32	32	32
RANGE OF T.P.I. THREAD CUT	4-56	4-56	4-56	4-56	4-56	4-56	4-56
RANGE OF M.M. THREADS	0.5-6	0.5-6	0.5-6	0.5-6	0.5-6	0.5-6	0.5-6
DIA X T.P.I. OF LEAD SCREW	35/4	35/4	38/4	38/4	45/4	45/4	45/4
TAPPER IN TAIL STOCK	MT-3	MT-3	MT-4	MT-4	MT-4	MT-4	MT-4
POWER REQUIRED IN H.P.	2	2	3	3	5	5	5
APPROX. WEIGHT IN KGS.	1000	1100	1400	1600	2000	2200	2500



MODEL : SL-I



BED : Bed is a rigid casting of close grain alloy cast iron of Brinell Hardness 200 ± 10 with webbed inverted vees to withstand heavy loads with minimum of vibration & deformation. All bearing surfaces are hard & ground. High tensile induction hardened slide v-ways are also available on requirement.

HEAD STOCK : Head Stock is equipped with helical/spur Gears & Taper Roller bearings. The spindle is hardened ground with Alloy steel with automatic reverse and lubricated gears. All gears in Head Stock are generated on Hobbing machine and Gear shaper machine. Adjuster are fitted to set over the taper turning.

TECHNICAL SPECIFICATION

MODEL	SL-I			SL-II		SL-III			
	45-HD	50-MD	60-LD	65-MD	80-LD	65-HD	80-MD	100-LD	
LENGTH OF BED	1370	1525	1830	1980	2440	1980	2440	3050	
WIDTH OF BED	280	280	280	317	317	355	355	355	
HEIGHT OF CENTER	228	228	228	265	265	305	305	305	
SWING OVER BED	420	420	420	495	495	575	575	575	
SWING IN GAP	630	630	630	745	745	840	840	840	
SWING OVER CROSS SLIDE	265	265	265	335	335	390	390	390	
SPINDLE HOLLOW	42	42	55	63	63	80	80	80	
ADMIT BETWEEN CENTER	600	750	900	1140	1600	950	1400	2000	
NO. OF SPINDLE SPEEDS	6/12	6/12	6/12	6/12	6/12	6	6	6	
RANGE OF SPINDLE SPEED R.P.M.	50-850	50-850	50-850	50-750	50-750	40-600	40-600	40-600	
NO. OF FEEDS	18	18	18	18	18	18	18	18	
RANGE OF T.P.I. THREAD CUT	4-56	4-56	4-56	4-56	4-56	4-56	4-56	4-56	
RANGE OF M.M. THREADS	0.5-6	0.5-6	0.5-6	0.5-6	0.5-6	0.5-6	0.5-6	0.5-6	
DIA & T.P.I. OF LEAD SCREW	35/4	35/4	35/4	38/4	40/4	43/4	43/4	43/4	
TAPPER IN TAIL STOCK	MT-3	MT-3	MT-3	MT-4	MT-4	MT-4	MT-4	MT-4	
POWER REQUIRED IN H.P. C.P./S.G.H.	1.5-2	1.5-2	1.5-2	2-3	2-3	3	3	3	
APPROX. WEIGHT IN KGS.	900	950	1050	1450	1650	1800	2000	2500	
DRIVING BELTS	C.P.	B-44/1	B-44/1	C-46/1	B-48/2	B-48/2	B-54/2	B-54/2	B-54/2
	S.G.H.	B-33/18	B-33/1	B-33/1	B-35/2	B-35/2	B-44/2	B-44/2	B-44/2

* BEARINGS Taper Roller - S.K.F., Timken, N.B.C or other superior quality

MODEL : SL-II



GEAR BOX : The Quick change Norton Type gear box provides 36 feeds & a wide range of whitworth threads. The changes are accomplished through a train of alloy steel gears carried on alloy steel shafts. The steel shafts run in Gun Metal Bush Bearing & Ball Bearings. It controlled by means or two selection levers situated at the front of the box. Thus the availability of 6 spindle speeds and 36 feeds allow the most productive speed and feed to be selected for each job.



MODEL : SL-III

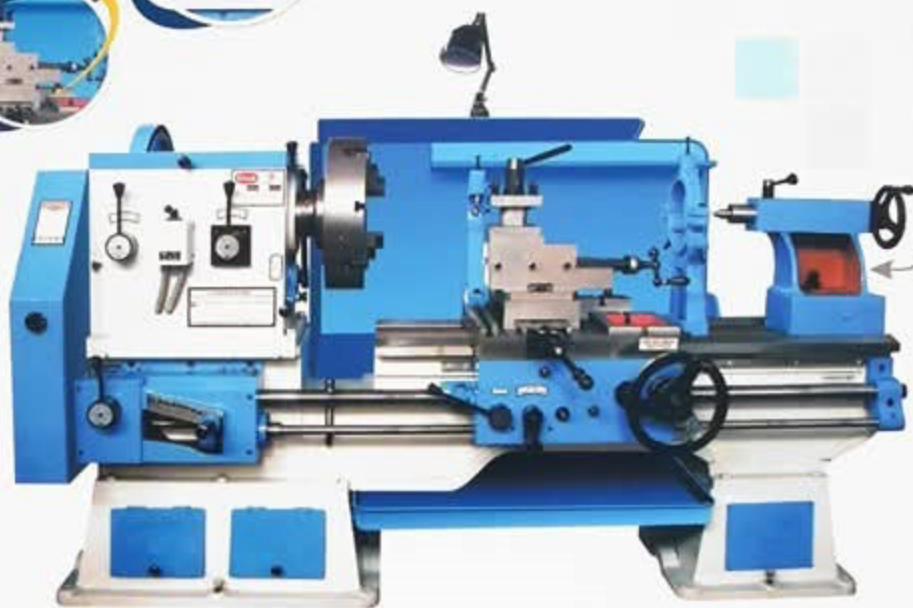


SADDLE : The saddle is mounted on Vees surface on the bed. All surface are precision machined. It is carefully scraped in bed side ways and T-slotted for milling & boring work. The cross slide ensures solid tool support and provides for a rear mounted tooling. The saddle can be locked to the bed while surfacing. Feeding screws of both cross and compound slides are provided with graduated adjustable collars. Gibs are provided for cross & compound slide which facilitate adjustments to be made to compensate for wear. The compound slides rest swivels for taper turning and is accurately graduated in design. The slide feed can also be reversed by engaging the other lever provided on apron (Optional).





MODEL : SL-IV



A PRON : Feed and screw cutting arrangements are interlocked to prevent simultaneous engagement & Longitudinal and cross feeds are engaged by a single lever control action. Split nut handle is locked when Sliding and Surfacing for vice-versa. Feeds are taken from a separate shaft by engaging worm. The feed can be set for auto stop, towards Head Stock (optional).

TAIL STOCK : The Tail Stock is of rigid design with a large diameter ground spindle & screws. It rests on a separate prismatic guideway on the bed. Set screws adjuster are fitted to enable the tail stock to be set over the taper turning. The spindle is graduated in inches as well as in centimeters of travel. It is fitted with quick locking device.

TECHNICAL SPECIFICATION

MODEL	SL-IV			SL-V				SL-VI			
	85-HD	100-MD	120-LD	100-HD	120-HD	140-MD	160-MD	100-EHD	120-EHD	140-HD	160-HD
LENGTH OF BED	2590	3050	3660	3050	3660	4270	4875	3050	3660	4270	4875
WIDTH OF BED	406	406	406	457	457	457	457	508	508	508	508
HEIGHT OF CENTER	368	368	368	406	406	406	406	457	457	457	457
SWING OVER BED	695	695	695	770	770	770	770	870	870	870	870
SWING IN GAP	1060	1060	1060	1200	1200	1200	1200	1350	1350	1350	1350
SWING OVER CROSS SLIDE	500	500	500	575	575	575	575	650	650	650	650
SPINDLE HOLLOW	92	92	92	92	92	92	92	105	105	105	105
ADMIT BETWEEN CENTERS	1370	1825	2425	1775	2375	3000	3600	1525	2130	2740	3350
NO. OF SPINDLE SPEEDS	6	6	6	6	6	6	6	8	8	8	8
RANGE OF SPINDLE SPEED R.P.M	30-450	30-450	30-450	25-350	25-350	25-350	25-350	25-250	25-250	25-250	25-250
NO. OF FEEDS	18	18	18	18	18	18	18	18	18	18	18
RANGE OF T.P.I. THREAD CUT	2-28	2-28	2-28	2-28	2-28	2-28	2-28	2-28	2-28	2-28	2-28
RANGE OF M.M. THREADS	0.5-2	0.5-2	0.5-2	0.5-12	0.5-12	0.5-12	0.5-12	0.5-12	0.5-12	0.5-12	0.5-12
DIA & T.P.I. OF LEAD SCREW	50/2	50/2	55/2	55/2	55/2	60/2	60/2	60/2	60/2	60/2	60/2
TAPPER IN TAIL STOCK	MT-4	MT-4	MT-4	MT-5	MT-5	MT-5	MT-5	MT-5	MT-5	MT-5	MT-5
POWER REQUIRED IN H.P.	3	5	5	5	5	5	5	5/7.5	5/7.5	5/7.5	5/7.5
APPROX. WEIGHT IN KGS.	2800	3000	3300	3250	3500	3750	4000	3800	4200	4600	5000
DRIVING BELTS	C.P.	B-65/2	B-65/2	B-65/2	C-75/2	C-75/2	C-75/2	C-80/2	C-80/2	C-80/2	C-80/2
	S.G.H.	B-47/2	B-47/2	B-47/2							

* BEARINGS Taper Roller - S.K.F., Timken, N.B.C or other superior quality

MODEL : SL-VI
EXTRA HEAVY DUTY LATHE MACHINE



PRODUCTION LATHE



STANDARD ACCESSORIES : Face Plate, Chuck Plate, Dead Center, Moving Steady, Stationary Steady (Excluding 4'½ & 5') Motor Attachment, Thread Indicator Dial, Dead Center Adaptor, Tool Post Bolt Spanner, Chip Tray, Splash Guard & Belt guard.

EXTRA ACCESSORIES : Independent Jaw Chuck, self Centering Chuck, Electric Motor, Reverse Switch, Direct on Line auto trip Adjustable Relay Starter, Elec. Coolant Pump with tank & fittings, Machine Lamp, Taper Turning attachment, Grinding Attachment, Quick change Tool Post (Set of Six).



MULTI SPINDLE
DOUBLE HEAD BORING MACHINE
(SPM)

Note : Details in illustrations and specification are subjected to change (for modification & improvement) without prior notice.
(Pictures are illustrative only, parts are shown may not be part of standard equipment.)



SPECIAL FEATURES :-

- Heat Treated Gears.
- Hard Ground Spindle & Shafts.
- Accuracy in ovality 5 to 10 microns.
- All Screw including Lead Screw from alloy steel
- Alloy Cast beds & Slides having 200BHn (± 10).
- High Tensile Induction Hardened Slide V-Ways



Our Machines Are Working Not Only In The Big Industrial Units But Also In Engineering Colleges And Polytechnics All Over India.

PRODUCT CATALOGUE
STAR LATHE



Manufacturers & Exporters

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