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Manual Lathe & CNC Lathe



GOSAN MACHINERY CO., LTD. 高尙精機股份有限公司

NO.131 RUEIHE ST. DALI DISTRICT, TAICHUNG CITY 412, TAIWAN, R.O.C.

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AGENT

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BRIEF INTRODUCTION

COMPANY NAME: GOSAN MACHINERY CO., LTD

ADDRESS: No. 131, Rueihe St. DaLi District, Taichung City, Taiwan R.O.C.

ESTABLISHMENT: Since April 15, 1979

TEL: (04) 2495 0259

FAX: (04) 2493 4507

SPECIALIZATION: Precision Engine Lathe, Variable-speeds lathe, Heavy Duty Lathe and CNC lathe.

SQUARE MEASURE: 1,745 M 18,780 ft

EMPLOYEE: 20

Factory's Successive Changes & history:

- 1979** Established at No. 3, Nong 5, Line 33, Kuang Ming Rd., WU Jih, Taichung, Taiwan, R.O.C. Factory's Area was 265 square meter. Began to produce High speed lathe, annual turnover was 80 units.
- 1980** March, we were judged and decided by Bureau of Commodity inspection & Quarantine, MOEA. to be a quality-qualified exporting factory.
- 1982** Moved to No. 72, Line 157, Kuang Ming Rd., WU Jih, Taichung, Taiwan, R.O.C. Factory's Area 826 square meter.
- 1993** Reached the highest turnover 700 units in this year, and the quantity of lathes exporting to Germany accumulated to 1000 units. Shye Sheng was ranked to be the 20th Lathe Exporter in 1993.
- 1994** July, moved to No. 9, 18th Road, Taichung Industrial park, Taichung City. Capital increased to be 10 million NT dollars, and area 1752 square meter.
- 1994** November, passed through the inspection by the Europe Common Market Inspected Bureau, AIB-VINCOTTE Inter n.f.p. Our lathes were inspected in compliance with the requirements of the EC Machinery Directive, the harmonized Safety Standards. We became the first High-Speed lathe manufacturer permitted to export to Europe Common Market in Taiwan.
- 1997** June, use the inverter applied to the spindle of lathe, and develop the first variable-speed lathe in Taiwan. Also, we lead the trend for the lathe with inverter.
- 1998** March, develop our first flat bed CNC lathe.
- 2006** February, cooperate with Proto TRAK controller to develop the simple type CNC lathe.
- 2007** May, moved to No. 131, Rueihe St. DaLi City and change name GOSAN MACHINERY CO., LTD.
- 2009** October, our whole series meet SGS requirements and get the new CE certificate, including: Machinery Directive, Low Voltage Directive, and EMC.
- 2010** January, cooperate with Pin-Jeng Machinery Company to develop CNC lathe with Deep hole drilling.
- 2013** December, cooperate with customer to get the CSA certificate

CNC LATHE (Flat-bed type)

**Model: 1740NC 1760NC 1780NC
2040NC 2060NC 2080NC**



FEATURES

- FAGOR, FANUC, SIEMENS, SYNTEC are available.
- CNC and manual operation.
- Dual electronic hand-wheels for manual turning & Teach in mode.
- Integrated PLC.
- Semi-automatic, automatic (cycle) and part program modes.
- Rapid traverse.
- Automatic home searching.
- Gear headstock 3 steps, 30-2000 r.p.m. infinite variable spindle speed.
- To supported spindle using high precision taper roller bearings.
- All geared headstock, main gears are made from Chromium, Nickel, molybdenum alloy steel and are case hardened and "REISHAUER" ground.
- Forced spray lubrication system used for headstock.
- High precision ball-screws.
- Hardened of bed-way & cross ways meet HB 450.
- Auto lubrication unit for all slide-ways surface and ball-screw.



▲ Electrical 4 way toolpost



▲ Hydraulic system Turret



▲ Electrical system Turret



▲ Hydraulic Tailstock

CNC LATHE (Flat-bed type)

Model: 1440NC



FEATURES

- FAGOR, FANUC, SIEMENS, SYNTEC... are available.
- CNC and manual operation.
- Dual electronic hand-wheels for manual turning & Teach in mode.
- Integrated PLC.
- Semi-automatic, automatic (cycle) and part program modes.
- Rapid traverse.
- Automatic home searching.
- 30-2000 r.p.m. infinite variable spindle speed.
- To supported spindle using high precision taper roller bearings.
- All geared headstock, main gears are made from Chromium, Nickel, molybdenum alloy steel and are case hardened and "REISHAUER" ground.
- Forced spray lubrication system used for headstock.
- High precision ball-screws.
- Hardened of bed-way & cross ways meet HB 450.
- Auto lubrication unit for all slide-ways surface and ball-screw.



▲ Chip Tray

Easily to remove the chip front of the lathe.

▲ Tool Cabinet (OPTIONAL)

Tool cabinet can put cutting tools and maintenance.



▲ Operator Box (OPTIONAL)

Dual hand wheels in front of CNC lathe easily to control in manual mode. Operator box can move smoothly.

BRIEF SPECIFICATION

MODEL	1440NC	1740NC	1760NC	1780NC	2040NC	2060NC	2080NC
NOMINAL SIZE							
Swing over Bed	356 mm 14"		440 mm 17-5/16"			510 mm 20"	
Height of Center	176 mm 6-7/8"		220 mm 8-5/8"			255 mm 10"	
Swing over Cross Slide	172mm 6.7"		235 mm 9-1/4"			305 mm 12"	
Distance Between Centers	1000 mm 40 in	1000 mm 40 in	1500 mm 60 in	2000 mm 80 in	1000 mm 40 in	1500 mm 60 in	2000 mm 80 in
Width of Bedways	206 mm 8-1/2 in			330 mm 13 inch			
HEADSTOCK							
Spindle nose mounting	D1-4 CAMLOCK				D1-8 CAMLOCK		
Spindle bore	38 mm 1-1/2"				86 mm 3-3/8"		
Taper of spindle bore	MT#5				MT#7 (Sleeve MT#5)		
Spindle speed	HI	2000 ~ 410 RPM			2000 ~ 240 RPM		
	MID	540 ~ 110 RPM			380 ~ 45 RPM		
	LO	140 ~ 30 RPM			84 ~ 10 RPM		
SLIDE							
Cross slide travel (X axis)	180 mm 7"				280 mm 11"		
Dia. of ballscrew	25 mm				25 mm		
Rapid travel (X axis)	6 m/min				6 m/min		
Servo motor (X axis)	7.3 N/m				7.3 N/m		
Longitudinal travel (Z axis)	840 mm 33-1/2"	870 mm 34-1/4"	1380 mm 54-5/16"	1890 mm 74-3/8"	870 mm 34-1/4"	1380 mm 54-5/16"	1890 mm 74-3/8"
Dia. of ballscrew	32 mm				40 mm		
Rapid travel (Z axis)	6 m/min				8 m/min		
Servo motor (X axis)	7.3 N/m				9.3 N/m		
TURRET							
Max. cutting tools	20 mm				25 mm		
TAILSTOCK							
Quill diameter	45 mm 1-3/4"				75 mm 3"		
Quill taper	M.T.#3				M.T.#5		
Quill travel	100 mm 3-15/16"				160 mm 6-5/16"		
MOTOR							
Main motor	5HP 3.5Kw				10 HP 7.5 kw		
Coolant pump	1/8 HP				1/8 HP 25 L/min 0.4 kg/cm ²		
SIZE & WEIGHT							
Machine weight	1200 kgs	1800 kgs	2000 kgs	2300 kgs	2100 kgs	2300 kgs	2600 kgs
Machine size	82" x 50" x 72"	98" x 66" x 74"	118" x 66" x 74"	138" x 66" x 74"	98" x 66" x 74"	118" x 66" x 74"	138" x 66" x 74"
Packing size	90" x 60" x 83"	105" x 73" x 85"	125" x 73" x 85"	145" x 73" x 85"	105" x 73" x 85"	125" x 73" x 85"	145" x 73" x 85"

We reserve the right to modify and improve our products.

Standard Accessories

1. CNC controller.
2. Back plate for chuck.
3. Coolant pump.
4. Automatic lubrication system.
5. Safety guard.
6. Work lamp.
7. Electronic hand wheel X & Z axis.
8. Main motor.
9. Tool box and adjusting tools.
10. Center sleeve.
11. Two deal centers.
12. Optional manual & part list.

Optional Accessories

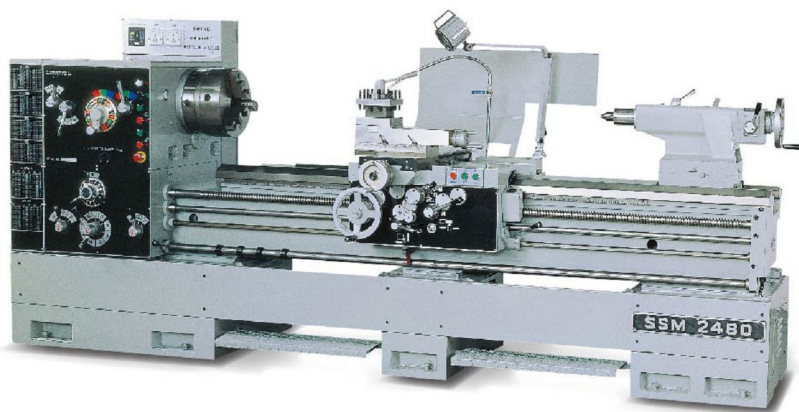
1. 3-jaw scroll chuck.
2. 4-jaw independent chuck.
3. Electrical 4 way toolpost.
4. Hydraulic 8 position turret.
5. Hydraulic chuck with draw bar.
6. Hydraulic tailstock.
7. Quick change toolpost with 4 pcs toolholders.
8. Steady rest.
9. Follow rest.
10. Face plate.
11. Live center.
12. Drill chuck with arbor.

Due to different model with different equipments.

HEAVY DUTY LATHE

(CLUTCH LATHE; Spindle bore 105mm 4-1/8 inch)

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



FEATURES

- 4-1/8" (105 mm) Spindle bore; D1-11 cam lock spindle nose; 3-bearing spindle support. The front and middle are precision "TIMKEN" taper roller bearing. The rear is roller bearing.
- 18 Spindle speeds, 10-1200 R.P.M. , 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 floor stand to minimize the cooling of oil.
- Heavy duty geared head; hardened and ground gears.
- 15 HP Main spindle motor.
- Quick-change universal gearbox for inch, metric, DP, MP, threading. All function without any change gears.
- Special threads: 11-1/2 TPI, 13 TPI, 13-1/2 TPI, 19 TPI, and with Multiple thread.
- 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.
- 19 in (485 mm) wide bed ways, induction hardened and ground.



▲ Automatic lubrication system



▲ Multiple threading system for cutting worm.



▲ Electro-magnetic clutch & Brake



▲ Four-way rapid carriage movement.



▲ Tailstock hand-wheel has two-speed feed



▲ Wide of bed-ways 19 inch, 485 mm



BRIEF SPECIFICATION FOR HEAVY DUTY LATHE

MODEL		2480	24120	24160	3080	30120	30160
NOMINAL SIZE	Swing over bed	610 mm (24")			760 mm (30")		
	Swing over cross slide	350 mm (13-3/4")			500 mm (19-3/4")		
	Height of center	305 mm (12")			380 mm (15")		
	Distance between centers	2033 mm (80")	3050 mm (120")	4050 mm (160")	2033 mm (80")	3050 mm (120")	4050 mm (160")
BED	Width of bedways	485 mm (19")			485 mm (19")		
	Total length of bed	3320 mm (130")	4380 mm (172")	5470 mm (215")	3320 mm (130")	4380 mm (172")	5470 mm (215")
	Swing over gap	820 mm (32-1/4")			970 mm (38-1/4")		
	Length of gap	515 mm (20-1/4")			515 mm (20-1/4")		
SPINDLE	Width in front of face plate	340 mm (13-3/8")			340 mm (13-3/8")		
	Spindle nose mounting	D1-11 CAMLOCK			D1-11 CAMLOCK		
	Spindle bore	105 mm (4-1/8")			105 mm (4-1/8")		
	Taper of spindle bore	M.T.#5 (with center sleeve)			M.T.#5 (with center sleeve)		
TOOL SLIDE	Number of spindle speeds	18 steps (Forwarded & Reversed by magnetic clutch control)			18 steps (Forwarded & Reversed by magnetic clutch control)		
	Range of spindle speeds	10-1200 R.P.M. (with Magnetic brake)			10-1200 R.P.M. (with Magnetic brake)		
	Total travel of cross slide	375 mm (14-3/4")			375 mm (14-3/4")		
	Total travel of top slide	225 mm (9")			225 mm (9")		
TAIL STOCK	Max. Size cutting tool	32 mm (1-1/8")			32 mm (1-1/8")		
	Total travel of tailstock barrel	195 mm (7-1/2")			195 mm (7-1/2")		
	Taper in tailstock barrel	M.T.#5			M.T.#5		
	Diameter of barrel	80 mm (3-1/8")			80 mm (3-1/8")		
THREADS	Lead screw diameter & pitch	Dia. 38 mm Pitch 12 mm 2 T.P.I.			Dia. 38 mm Pitch 12 mm 2 T.P.I.		
	Inch threads	1/4-84 T.P.I. (60)			1/4-84 T.P.I. (60)		
	Metric pitches	0.2-112 mm (60)			0.2-112 mm (60)		
	Diametral pitches	1-240 D.P. (55)			1-240 D.P. (55)		
FEEDS	Module pitches	0.05-28 M.P. (55)			0.05-28 M.P. (55)		
	Feed rod diameter	38 mm (1-1/2")			38 mm (1-1/2")		
	Range of longitudinal feeds	0.040-5.000 mm/rev. / 0.0015-0.20 in/rev. (40)			0.040-5.000 mm/rev. / 0.0015-0.20 in/rev. (40)		
	Range of cross feeds	0.015-4.000 mm/rev. / 0.0006-0.16 in/rev. (40)			0.015-4.000 mm/rev. / 0.0006-0.16 in/rev. (40)		
MOTOR	Main spindle motor	15 HP 11 kw			15 HP 11 kw		
	Coolant pump motor	1/8 HP 0.1 kw			1/8 HP 0.1 kw		
WEIGHT	Machine net weight	3500 kgs	4000 kgs	4500 kgs	3800 kgs	4300 kgs	4800 kgs
PACKING SIZE	Crate size (L x W x H)	148" x 62" x 73"	189" x 62" x 73"	231" x 62" x 73"	148" x 62" x 76"	189" x 62" x 76"	231" x 62" x 76"

We reserve the right to modify and improve our products.

PRECISION ENGINE LATHE

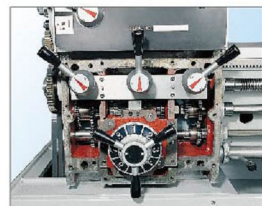
(Spindle bore 86mm. 3-3/8inch)

Model: 1740, 1760, 1780, 2040, 2060, 2080

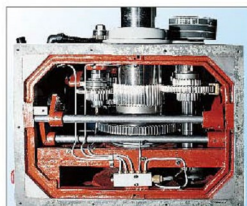


FEATURES

- Heavy duty geared head; hardened and ground gears.
- 86 mm (3-3/8 inch) hole through spindles.
- 3-point supported spindle using 2 precision taper roller bearings and 1 ball bearing.
- 12 steps spindle speeds 20-1800 R.P.M. shift in geometric progression.
- Quick-change universal gearbox for inch, metric, DP, MP, threading.
- Forced spray lubrication system used for headstock.
- One shot lubrication pump supply oil to cross slide and bed-ways.
- Adjustable overload clutch in apron to ensure proper cutting load.
- Cross slide screw permanently immersed in oil and supported by thrust bearing.
- Induction hardened and precision ground bed-way.
- One piece base for maximum rigidity.



▲ Universal gearbox



▲ Headstock

Variable-speed change
With inverter ; 3 steps speed
High : 2000-240 R.P.M.
Middle : 380-54 R.P.M.
Low : 84-10 R.P.M.



▲ Electrical box & inverter

VARIABLE-SPEED LATHE

Model: 1740V, 1760V, 1780V, 2040V, 2060V, 2080V



BRIEF SPECIFICATION FOR PRECISION ENGINE LATHE 17" & 20"

MODEL		1740 1740V	1760 1760V	1780 1780V	2040 2040V	2060 2060V	2080 2080V
NOMINAL SIZE	Swing over bed	440 mm (17-5/16")			510 mm (20")		
	Swing over cross slide	272 mm (10-3/4")			342 mm (13-1/2")		
	Height of center	220 mm (8-5/8")			255 mm (10")		
	Distance between centers	1000 mm (40")	1500 mm (60")	2000 mm (80")	1000 mm (40")	1500 mm (60")	2000 mm (80")
BED	Width of bedways	330 mm (13")					
	Total length of bed	2000 mm (78")	2510 mm (98")	3020 mm (118")	2000 mm (78")	2510 mm (98")	3020 mm (118")
	Swing over gap	660 mm (26")			730 mm (28-3/4")		
	Length of gap	300 mm (11-3/4")			300 mm (11-3/4")		
	Width in front of face plate	190 mm (7-1/2")			175 mm (6-3/4")		
	SPINDLE	Spindle nose mounting	D1-8 CAMLOCK				
Spindle bore		86 mm (3-3/8")					
Taper of spindle bore		M.T.#5					
Number of spindle speeds		12 steps (Variable speed change 3 steps)					
Range of spindle speeds		20-1800 R.P.M. (Variable speed change 10-2000 R.P.M.)					
TOOL SLIDE	Total travel of cross slide	260 mm (10-1/4")					
	Total travel of top slide	130 mm (5-1/8")					
	Max. size cutting tool	25 mm (1")					
TAIL STOCK	Total travel of tailstock barrel	150 mm (6")					
	Taper in tailstock barrel	M.T.#5					
	Diameter of barrel	75 mm (3")					
THREADS	Lead screw diameter & pitch	Dia. 35 mm (1-3/8") Pitch 6 mm 4 T.P.I.					
	Inch threads	2-72 T.P.I. (48)					
	Metric pitches	0.2-14 mm (48)					
	Diametral pitches	8-60 D.P. (24)					
	Module pitches	0.2-3.5 M.P. (24)					
FEEDS	Feed rod diameter	25 mm (1")					
	Range of longitudinal feeds	0.06-2.00 mm/rev. / 0.0025-0.07 in/rev. (36)					
	Range of cross feeds	0.03-0.80 mm/rev. / 0.0010-0.03 in/rev. (36)					
MOTOR	Main spindle motor	10 HP 7.5 kw					
	Coolant pump motor	1/8 HP 0.1 kw					
WEIGHT	Machine net weight	1900 kgs	2000 kgs	2200 kgs	2000 kgs	2100 kgs	2300 kgs
PACKING SIZE	Crate size (L x W x H)	92" x 46" x 65"	116" x 46" x 65"	136" x 46" x 65"	92" x 46" x 67"	116" x 46" x 67"	136" x 46" x 67"
	V Type size (L x W x H)	92" x 50" x 65"	116" x 50" x 65"	136" x 50" x 65"	92" x 50" x 67"	116" x 50" x 67"	136" x 50" x 67"

We reserve the right to modify and improve our products.

PRECISION ENGINE LATHE (Spindle bore 58mm. 2-1/4inch)

Model: 1540A, 1560A, 1740A, 1760A



FEATURES

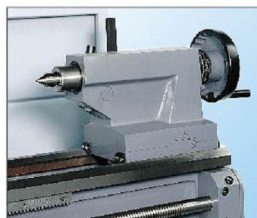
- Heavy duty geared head; hardened and ground gears.
- 58 mm (2-1/4 inch) hole through spindle.
- 3-point supported spindle using 2 precision taper roller bearings and 1 ball bearing.
- 12 steps spindle speeds 20-2000 R.P.M. shift in geometric progression.
- Forced spray lubrication system used for headstock.
- Quick-change universal gearbox for inch, metric, DP, MP, threading.
- One shot lubrication pump supply oil to cross slide and bed-ways.
- Adjustable overload clutch in apron to ensure proper cutting load.
- Cross slide screw permanently immersed in oil and supported by thrust bearing.
- Magnetic electric brake for spindle stop.



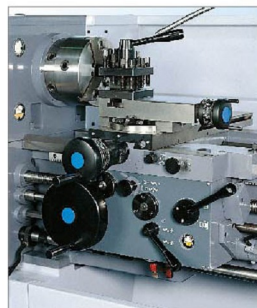
▲ Headstock & Gearbox



▲ Chip Tray



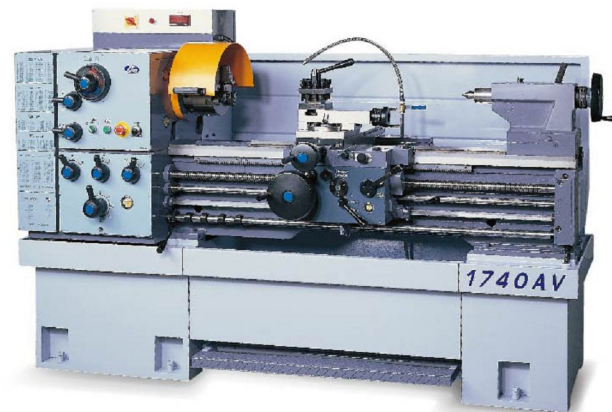
▲ Heavy duty Tail stock



▲ Carriage & Apron

VARIABLE-SPEED LATHE

Model: 1540AV, 1560AV, 1740AV, 1760AV



Variable-speed change
With inverter ; 3 steps speed
High : 2000-272 R.P.M.
Middle : 380-52 R.P.M.
Low : 74-10 R.P.M.



▲ End gear train & Sensor

BRIEF SPECIFICATION FOR 1540A/AV, 1560A/AV, 1740A/AV, 1760A/AV

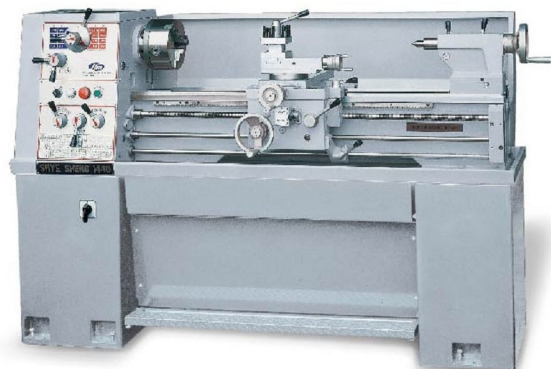
MODEL	1540A / 1540AV	1560A / 1560AV	1740A / 1740AV	1760A / 1760AV
NOMINAL SIZE	Swing over bed 380 mm (15")		434 mm (17")	
	Swing over cross slide 225 mm (8-7/8")		277 mm (10-7/8")	
	Height of center 191 mm (7-1/2")		217 mm (8-1/2")	
	Distance between centers 1000 mm (40")		1500 mm (60")	1000 mm (40") 1500 mm (60")
BED	Width of bedways 300 mm (12")		300 mm (12")	
	Swing over gap 580 mm (23")		630 mm (25")	
	Length of gap 250 mm (10")		250 mm (10")	
	Spindle nose mounting D1-6" CAMLOCK			
SPINDLE	Spindle bore 58 mm (2-1/4")			
	Taper of spindle bore M.T. No.#6			
	Number of spindle speeds 12 steps		Variable speed change : 3 steps	
	Range of spindle speeds 20-2000 R.P.M.		Variable speed change : 10-2000 R.P.M. (with Magnetic brake)	
CARRIAGE	Total travel of cross slide 235 mm (9-1/4")			
	Total travel of top slide 130 mm (5-1/4")			
	Max. size cutting tool 25 mm (1")			
	Total travel of tailstock barrel 125 mm (5")			
TAIL STOCK	Taper in tailstock barrel M.T. No. #4			
	Diameter of barrel Dia. 58 mm (Dia. 2-1/4")			
	Lead screw diameter & pitch Dia. 32 mm Pitch 6 mm / Dia. 1-1/4" 4 T.P.I.			
	Inch threads 2-72 T.P.I. (48 Nos)			
THREADS	Metric pitches 0.2-14 mm (48 Nos)			
	Diametral pitches 8.-60 D.P. (24 Nos)			
	Module pitches 0.2-3.5 MOD. (24 Nos)			
	Range of longitudinal feeds 0.04-1.00 mm/rev. / 0.0015-0.04 in/rev. (36)			
FEEDS	Range of cross feeds 0.02-0.50 mm/rev. / 0.0075-0.02 in/rev. (36)			
	Main spindle motor 7.5 HP 5.7 kw			
	Coolant pump motor 1/8 HP 0.1 kw			
	Machine net weight 1400 kgs		1600 kgs	1500 kgs 1700 kgs
PACKING SIZE	Crate size (L x W x H) 92" x 46" x 63"		114" x 46" x 63"	92" x 46" x 66" 114" x 46" x 66"

We reserve the right to modify and improve our products.

PRECISION ENGINE LATHE

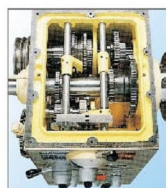
(8 spindle speeds change, 16 speeds is optional)

Model: SSM-1330, 1340, 1430, 1440

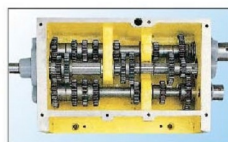


FEATURES

- 8 (or 16) spindle speeds.
- 38 mm (1-1/4 inch) hole through spindle.
- Heavy duty geared head; hardened and ground gears.
- Hardened and ground bed-way.
- Open type chip tray can be pulled out easily to remove chip.
- 3 HP (2.2 kw) three phase main motor.
- Foot brake giving rapid braking.
- Emergency stop button equipped on the front of headstock.

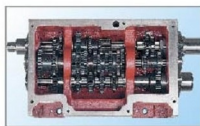


▲ Headstock



▲ Gear Box

Model: SSM-1330SL, 1340SL, 1430SL, 1440SL (Universal Gear Box)



▲ Universal type Gear Box



VARIABLE-SPEED LATHE

Model: 1330SV, 1340SV, 1430SV, 1440SV

Variable-speed change

2 steps speed

High : 2200-165 R.P.M.

Low : 405-30 R.P.M.



BRIEF SPECIFICATION FOR SSM LATHE

	MODEL	1340 / 1340SV	1330 / 1330SV	1440 / 1440SV	1430 / 1430SV
NOMINAL SIZE	Swing over bed	330 mm (13")	330 mm (13")	356 mm (14")	356 mm (14")
	Swing over cross slide	195 mm (7-5/8")	195 mm (7-5/8")	220 mm (8-5/8")	220 mm (8-5/8")
	High of center	165mm (13")	165mm (13")	178mm (14")	178mm (14")
	Distance between center	1000 mm (40")	750 mm (30")	1000 mm (40")	750 mm (30")
BED	Swing over gap	490 mm (19")	490 mm (19")	515 mm (20")	515 mm (20")
	Width of bed	206 mm (8-1/2")	206 mm (8-1/2")	206 mm (8-1/2")	206 mm (8-1/2")
SPINDLE	Numbered of spindle speeds	8 steps or 16 steps (for 2 speed motor) or 2 steps for Variable speed change			
	Range of spindle speeds	90 - 1800 R.P.M. or 45-1800 R.P.M. (for 2-speed motor) or 30-2200 R.P.M. for Variable speed change			
	Hole through spindle	38 mm (1-1/2")			
	Spindle nose	D1-4 CAMLOCK			
TAIL STOCK	Taper of spindle bore	M.T. No. 5			
	Total travel of tailstock barrel	110 mm (4-3/4")			
	Taper in tailstock barrel	M.T. No. 3			
TOOL SLIDE	Diameter of barrel	45 mm (1-3/4")			
	Cross slide travel	157 mm (6-3/16")		167 mm (6-5/8")	
	Compound rest travel	95 mm (3-3/4")		100mm (4")	
	Max. size cutting tool	16 mm (5/8")		22 mm (7/8")	
THREADS	Lead screw diameter & pitch	Dia. 25mm Pitch 6mm / Dia. 7/8" 8T.P.I. or (Dia. 22mm Pitch 4mm / Dia. 1" 4T.P.I.)			
	Metric threads	0.5-7.0 mm (37 Nos) for metric system / 0.45-7.5 mm (22 Nos) for inch system			
	Inch threads	0.2-7.0 mm (34 Nos) for universal type gear box (SL type)			
		4-56 T.P.I. (28 Nos) for metric system / 4-112 T.P.I. (40 Nos) for inch system			
FEEDS		4-72 T.P.I. (39 Nos) for universal type gear box (SL type)			
	Diametral pitches	8-44 D.P. (21 Nos) for SL type			
	Module pitches	0.3-3.5 MOD. (18 Nos) for SL type			
	Feed rod diameter	19 mm (3/4")			
PACKING SIZE	Longitudinal feeds	0.034-0.41 mm/rev. (42) for metric system / 0.0012-0.0294 in/rev. (40) for inch system			
		0.037-0.5 mm/rev. (24) for SL type			
	Cross feeds	0.017-0.20 mm/rev. (42) for metric system / 0.0003-0.0100 in/rev. (40) for inch system			
		0.018-0.25 mm/rev. (24) for SL type			
	Machine net weight	700 kgs	650 kgs	750 kgs	700 kgs
	Gross weight	820 kgs	770 kgs	880 kgs	830 kgs
	Crate size (L x W x H)	77" x 30" x 61"	67" x 30" x 61"	77" x 30" x 61"	67" x 30" x 61"

We reserve the right to modify and improve our products.

PRECISION ENGINE LATHE (12 spindle speeds change)

Model: TURNPOWER 1330, 1340, 1430, 1440

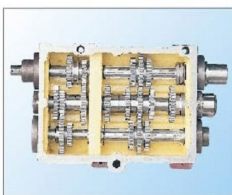


FEATURES

- 12 steps spindle speed 50-2000 R.P.M. shifts in geometric progression.
- 38 mm (1-1/4 inch) hole through spindle.
- Heavy duty geared head; hardened and ground gears.
- Hardened and ground bed-way.
- Open type chip tray can be pulled out easily to remove chip.
- 3 HP (2.2 kw) three phase main motor.
- Foot brake giving rapid braking.
- Emergency stop button equipped on the front of headstock.



▲ Headstock



▲ Gear Box



VARIABLE-SPEED LATHE

Model: TURNPOWER 1330V, 1340V, 1430V, 1440V

Variable-speed change

3 steps speed

High : 2000-400 R.P.M.

Middle : 540-110 R.P.M.

Low : 145-30 R.P.M.



▲ Electrical box for square head Lathe



BRIEF SPECIFICATION FOR TURNPOWER

MODEL		TURNPOWER 1340 TURNPOWER 1340V	TURNPOWER 1330 TURNPOWER 1330V	TURNPOWER 1440 TURNPOWER 1440V	TURNPOWER 1430 TURNPOWER 1430V
NOMINAL SIZE	Swing over bed	330 mm (13")	330 mm (13")	356 mm (14")	356 mm (14")
	Swing over cross slide	195 mm (7-5/8")	195 mm (7-5/8")	220 mm (8-5/8")	220 mm (8-5/8")
	High of center	165mm (13")	165mm (13")	178mm (14")	178mm (14")
	Distance between center	1000 mm (40")	750 mm (30")	1000 mm (40")	750 mm (30")
BED	Swing over gap	490 mm (19-1/4")	490 mm (19-1/4")	515 mm (20-1/4")	515 mm (20-1/4")
	Width of bed	190 mm (7-1/2")	190 mm (7-1/2")	190 mm (7-1/2")	190 mm (7-1/2")
SPINDLE	Numbered of spindle speeds	12 steps or 3 steps for Variable speed change			
	Range of spindle speeds	45 - 1800 R.P.M. or 30 - 2000 R.P.M. for Variable speed change			
	Hole through spindle	40 mm (1-9/16")			
	Spindle nose	D1-4 CAMLOCK			
	Taper of spindle bore	M.T. No. 5			
TAIL STOCK	Total travel of tailstock barrel	100mm (4")			
	Taper in tailstock barrel	M.T. No. 3			
	Diameter of barrel	40 mm (1-9/16")			
TOOL SLIDE	Cross slide travel	160.5 mm (6-5/16")			
	Compound rest travel	90mm (3-1/2")			
	Max. size cutting tool	16 mm (5/8")		22 mm (7/8")	
THREADS	Lead screw diameter & pitch	Dia. 25 mm Pitch 6 mm / Dia.1" 4 T.P.I.			
	Metric threads	0.4-7.0 mm (32 Nos)			
	Inch threads	4-56 T.P.I. (32 Nos)			
	Module pitches	0.4-7.0 MOD. (32 Nos) for metric system / 0.2-3.5 MOD. (27 Nos) for inch system			
	Diametral pitches	7-1/2-112 D.P. (32Nos) for metric system / 8-112 D.P. (32 Nos) for inch system			
FEEDS	Feed rod diameter	19 mm (3/4")			
	Longitudinal feeds	0.044-1.960 mm/rev. / 0.0016-0.0368 in/rev. (40 Nos)			
	Cross feeds	0.022-0.980 mm/rev. / 0.0008-0.0122 in/rev. (40 Nos)			
WEIGHT & PACKING SIZE	Machine net weight	700 kgs	650 kgs	750 kgs	700 kgs
	Gross weight	820 kgs	770 kgs	880 kgs	830 kgs
	Crate size (L x W x H)	77" x 30" x 61"	67" x 30" x 61"	77" x 30" x 61"	67" x 30" x 61"

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VARIABLE-SPEED BENCH LATHE

Model: 1224BV, 1236BV, 1340BV



FEATURES

- The Lathe equipped with an electronically controlled variable speed inverter control. 2 spindle speed change 40-365 R.P.M. & 218-2000 R.P.M.
- Close type Headstock, Gearbox and Apron have inner oil reservoir in which lubrication worked by splashing lubricant.
- Hardened and ground gears in headstock. 40 mm (1-9/16 inch) hole through spindles. Spindle supported with 2 precision taper roller bearings.
- With longitudinal and cross automatic feeding systems.
- The feed road and hand-wheel for apron are equipped with adjustable safety overload slipping clutch to ensure proper cutting load.
- Lathe bed made of high tensile cast iron in rigid structure is hardened and ground.
- Lathe equipped with electro brake and foot brake giving rapid braking.
- Tool cabinet mounted between two floor stands accompanied with lock can be put in all accessories and tools, safe and administrate conveniently.
- Outside shape designed under entirely consideration, neat and beautiful outlook. All control knobs are located on the front of headstock, control easily.

VARIABLE-SPEED LATHE



◀ Headstock & Gearbox



◀ End gear train & Sensor



◀ Electrical box & inverter



◀ Lockable Tool cabinet

BRIEF SPECIFICATION FOR VARIABLE-SPEED BENCH LATHE

	MODEL	1224BV	1236BV	1340BV
NOMINAL SIZE	Swing over bed	306 mm (12")	306 mm (12")	330 mm (13")
	Swing over cross slide	186 mm (7-5/16")	186 mm (7-5/16")	210 mm (8-5/16")
	Height of center	153 mm (6")	153 mm (6")	165 mm (6-1/2")
	Distance between center	610 mm (24")	915 mm (36")	1000 mm (40")
BED	Width of bedway gap type	190 mm (7-1/2")	190 mm (7-1/2")	190 mm (7-1/2")
	Total length of bed	1220 mm (48")	1525 mm (60")	1625 mm (64")
	Swing over gap	445 mm (17-1/2")	445 mm (17-1/2")	470 mm (18-1/2")
	Length of gap	240 mm (9-1/2")	240 mm (9-1/2")	240 mm (9-1/2")
SPINDLE	Width in front of face plate	150 mm (6")	150 mm (6")	150 mm (6")
	Spindle nose mounting	D1-4 CAMLOCK		
	Spindle bore	40 mm (1-9/16")		
	Taper of spindle bore	M.T. No. 5		
TOOL SLIDE	Number of spindle speeds	2 steps for Variable speed change		
	Range of spindle speeds	40-2000 R.P.M. for Variable speed change		
	Total travel of cross slide	168 mm (6-5/8")		
	Total travel of top slide	90mm (3-1/2")		
TAIL STOCK	Max. size cutting tool	13 mm (1/2")		
	Total travel of tailstock barrel	100mm (4")		
	Taper in tailstock barrel	M.T. No. 3		
	Diameter of barrel	40 mm (1-9/16")		
THREAD	Lead screw diameter & pitch	Dia. 22 mm Pitch 4 mm / Dia. 7/8" 8 T.P.I.		
	Inch threads	3-24 T.P.I. (8 Nos) for metric system / 2-56 T.P.I. (34 Nos) for inch system		
	Metric pitches	0.5-10 mm (21 Nos) for metric system / 0.5-12 mm (33 Nos) for inch system		
	Feed rod diameter	Dia. 19 mm (3/4")		
FEEDS	Range of longitudinal feeds	0.040-0.800 mm/rev. (21) for metric system / 0.0016-0.0460 in/rev. (25) for inch system		
	Range of cross feeds	0.020-0.400 mm/rev. (21) for metric system / 0.0005-0.0150 in/rev. (25) for inch system		
	Main spindle motor	2 HP 1.47 kw	2 HP 1.47 kw	3 HP 2.2 kw
	Coolant pump motor	1/8 HP 0.1 kw	1/8 HP 0.1 kw	1/8 HP 0.1 kw
WEIGHT & PACKING SIZE	Machine net weight-approx	500 kgs	550 kgs	600 kgs
	Machine gross weight-approx	620 kgs	670 kgs	720 kgs
	Crate size (L x W x H)	59" x 30" x 61"	71" x 30" x 61"	77" x 30" x 61"

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Standard Accessories

- | | | |
|-----------------------------|-------------------------|--------------------------------------|
| 1. Back plate | 6. Foot brake & E-stop | 11. Center Sleeve |
| 2. Steady rest | 7. Coolant pump | 12. Dead center |
| 3. Splash guard | 8. Main motor | 13. Level pads |
| 4. Threading Dial indicator | 9. Chip tray | 14. D1-4 Camlock with spindle wrench |
| 5. 4-way toolpost | 10. Set of Change gears | 15. Adjust tools & Tool box |
| | | 16. Manual & part list |

**Due to different model with different equipments,
Prices according to quotation sheet.**



Optional Accessories

- | | | |
|----------------------------|--|-------------------------------------|
| 1. 3 Jaw scroll chuck | 6. 4-position carriage stop | 10. Taper attachment |
| 2. 4 Jaw independent chuck | 7. Quick change tool post with tool holder | 11. 5C lever type collet attachment |
| 3. Face plate | 8. Live center | 12. Work lamp (quartz halogen lamp) |
| 4. Follow rest | 9. Drill chuck with arbor | 13. Digital readout |



Please indicate the following specifications on your order

1. Leadscrew and reading dial in imperial (inch) or metric (mm).
2. Left-hand or right-hand Apron hand-wheel (carriage hand-wheel).
3. Electrical current and cycles.

**All accessories as pictures showed in this brochure just for reference.
Correct standard accessories shall be according to the latest Price List.**