

HEAVY DUTY MANUAL LATHE



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Manual lathe

A 42 X 3000, Spindle bore 305 mm(12")

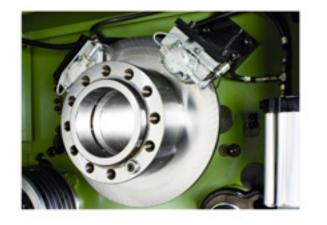
ADVANTAGE

- Super rigid for heavy cutting design
- One piece meehanite casting
- · Bed width 610mm, with double V ways
- User-friendly operation
- Big bore loading capacity
- Between centers 1500-7000mm



Headstock and Operational Panel

- Rigid one piece casting design for heavy cutting.
- · Gears and spline shafts are hardened and ground.
- · Spindle is supported by high precision taper roller bearings.
- Electro-magnetic brake.
- 18-step speeds provide high torque and excellent cutting conditions.



Quill Diameter: 165mm: provide

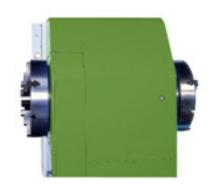
Tailstock

165mm: provides excellent support for heavy workpieces.

- Quill Movement Type:
- a. Manual: controlled by the hand wheel.
- b. Electric & Manual: Switch by lever easily (opt.)
- Body Movement:
- a. Manually by crank. (S.T.D)
- b. Motorized by reduction motor.

Hydraulic disk brake (opt.)

- 2 sets of hydraulic brake units, to stop spindle quickly
- To eliminate the initial of heavy work piece, extend the life of gears in headstock



Double Chucks (opt.)

Long workpiece turning stability is achieved by utilizing a second chuck at the rear of the spindle.

Apron and Carriage

- The cross slide uses a ballscrew.
- · Rapid traverse is included.
- Friction is reduced because the cross slide and carriage are covered with Turcite B.
- The bed way and cross slide have an automatic lubrication system.
- Exceptional durability is assured as the gears in the apron are nitrite treated.



Bed

- "Single piece MEENHANITE" cast-iron, thorough stress relieving.
- Induction heating treated to HRC 52±2.
- Precisely ground for excellent accuracy.

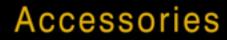
Gear box

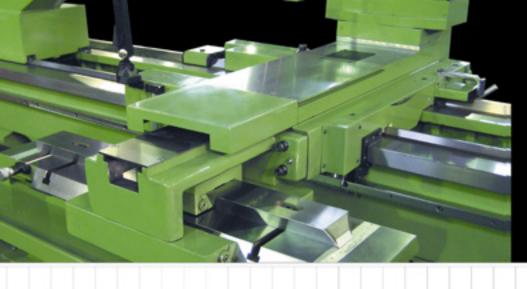
- · All shafts and gears are hardened and ground to HRC 45.
- The universal gear and box are protected by lubrication and a built-in safety device.
- By simply changing the levers, a wide range of feeds and threads can be easily changed.

Features

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Taper attachment

• +/- 10 degree strove 470 mm



Steady Rest with 3-roller Jaws

- · Clamping capacity from 30-300 mm; Ø80 mm quill
- · Clamping capacity from 255-455 mm; Ø80 mm quill
- . Clamping capacity from 280-550 mm; Ø105 mm quill



American 4-jaw chuck

+ 20", 25", 32", 36" 40" for option

3-jaw chuck

· 12", 15", 18", 21", 24", 32", 40"



Follow rest

 Clamping capacity from 30-230 mm



Quick change tool post

- Flat type quick change tool holder x 2
- V-type quick change tool holder x2
- Ø50 mm boring tool holder x2

Roller bracket

 Clamping capacity from 355-720 mm



Boring Attachment

- · Boring bar diameter: 6"
- Length: 1200 mm / 1500 mm
- Tool size: 32 mm
- · Sleeve: Ø50 mm~ Ø120 mm for option





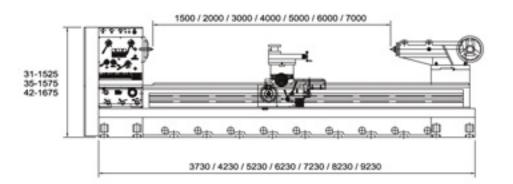
Specifications ◄

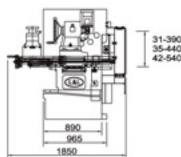
model	A	31	A35	A	42	
Swing over bed	800		900	1100		
	450		550	750		
	1050		1150	1350		
	390		440	540		
Bed width	610 mm					
Bed way for carriage	2 V ways					
Bed way for tailstock	1 V way and 1 flat way					
Bed way for steady rest	1 V way and 1 flat way					
Between centers	1500 / 2000 / 3000 / 4000 with gap					
	5000 / 6000 / 7000 without gap					
	105 mm	153 mm	230 mm	305 mm	405 mm	
Spindle bore	ASA-A2-8	ASA-A2-11	ASA-A2-15	ASA-A2-20	ASA-A2-28	
	10-1200 rpm	7~700 rpm	7~600 rpm	5~450 rpm	6~300 rpm	
Spindle center	105	5 mm, 153 mm -	MT#5 / 230	mm, 305 mm -	MT#6	
Spindle motor	30HP					
Th #	Inch: 30 ~ 0.25TPI (70 sets) / Metric: 1~120 mm (62 sets)					
Threading	DP: 1~120mm (80 sets) / MP: 30~0.25TPI (53 sets)					
X-axis feed	0.0016"~0.048"IPR / 0.04MM~1.2MM MPR					
Z-axis feed	0.0032"~0.096" IPR / 0.08~2.4MM MPR					
X-stroke	600 mm					
Z-stroke	1500 / 2000 / 3000 / 4000 / 5000 / 6000 / 7000					
X-axis rapid traverse	1500 mm/min					
Z-axis rapid traverse	3000 mm/min					
Compound slide stroke	300 mm					
Tailstock quill diameter	165 mm					
Tailstock body movement	MOTORIZED					
Tailstock quill movement	STD: HANDWHEEL / OPT: ELECTRICAL					
Tailstock quill stroke	200 mm					
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Remark: 1. 305mm spindle bore is only available for A35 and A42

- 2. If option "taper attachment", Z-axis stroke will be diminished
- 3. Specification subject to change without prior notice

Dimensional drawing





Machine dimensions & weight

A series	Between centers	1500	2000	3000	4000
A24	LxWxH(cm)	3730x1850x1525	4230x1850x1525	5230x1850X1525	6230x1850x1525
A31	N.W / G.W(kg)	5800 / 6800	6800 / 7800	8300 / 9500	9800 / 11200
ASE	LxWxH(cm)	3730x1850x1575	4230x1850x1575	5230x1850x1575	6230x1850x1575
A35 N.W / G.W(kg)		6300 / 7300	7300 / 8300	8800 / 10000	10300 / 11700
A42	LxWxH(cm)	3730x1850x1675	4230x1850x1675	5230x1850x1675	6230x1850x1675
A42	N.W / G.W(kg)	6800 / 7800	7800 / 8800	8300 / 10500	10800 / 12200

A series	Between centers	5000	6000	7000
A31	LxWxH(cm)	7230x1850x1525	8230x1850x1525	9230x1850x1525
	N.W / G.W(kg)	11300 / 12800	12800 / 14400	14300 / 16100
A35	LxWxH(cm)	7230x1850x1575	8230x1850x1575	9230x1850x1575
	N.W / G.W(kg)	11500 / 13300	13300 / 14900	14800 / 16600
A42	LxWxH(cm)	7230x1850x1675	8230x1850x1675	9230x1850x1675
	N.W / G.W(kg)	12000 / 13800	13800 / 15400	15300 / 17100