

Universal Lathes

Semi/Heavy Duty



Ajax Machine Tools

Machine Tool Exporters to the World

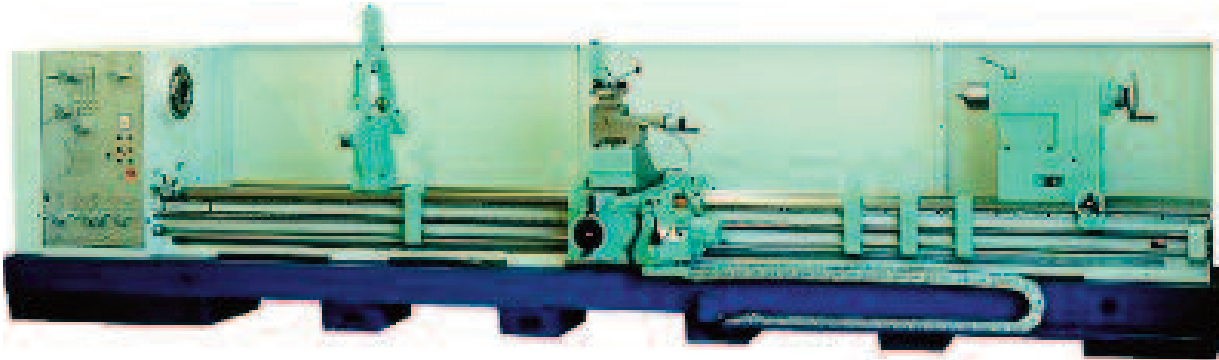


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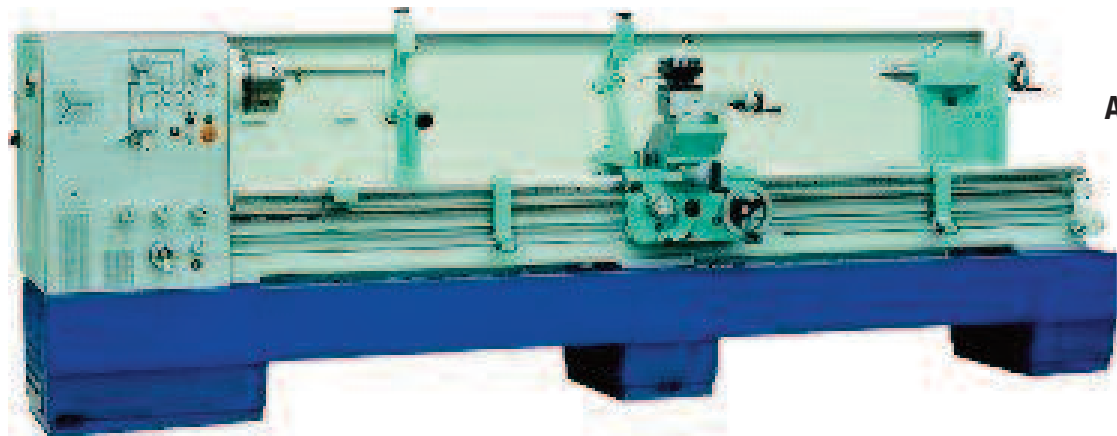
SEMI / HEAVY DUTY

Our Heavy duty range has a very rigid saddle due to the third support at the base of the gearbox, giving the same support as a lathe with twice the bed width. It also incorporates joystick control with rapids.

Our Semi-Heavy and Heavy Duty lathes are built for the most demanding environments with centre distances up to 10 metres, while maintaining complete accuracy.



AM 650HD



AJ 400SD



MAIN FEATURES INCLUDE:

- Induction hardened and ground one piece beds
- Easily selectable spindle speeds in geometric progression
- Headstock gears are case hardened and "Reishauer" ground splined shafts which turn on anti-friction bearings
- Spindle turns on pre-loaded, high precision taper roller bearings
- The universal gearbox is totally enclosed and provides a range of metric or imperial threads
- CE mark

OPTIONS:

- 3 and 4 jaw chucks
- 2 axis DRO system
- Face plates
- Full length back guard
- 2 & 3 point steadies
- Taper turning
- Rear tool post
- Rapids (SHD)

CAPACITY	AJ-250HD	AJ-325HD	AJ-400SD	AM-400HD	AM-500HD	AM-650HD
Centre Height	250mm	325mm	400mm	400mm	500mm	650mm
Swing Over Bed	500mm	650mm	800mm	800mm	1000mm	1300mm
Distance Between Centres	1000/ 1500/ 2000/ 3000/ 4000mm	1000/ 1500/ 2000/ 3000/ 4000mm	1000/ 1500/ 2000/ 3000/ 4000mm	2000/ 3000/ 4000/ 5000/ 6000/ 8000/ 10000mm	2000/ 3000/ 4000/ 5000/ 6000/ 8000/ 10000mm	2000/ 3000/ 4000/ 5000/ 6000/ 8000/ 10000mm
Swing Over Wings of Saddle	460mm	610mm	740mm	720mm	970mm	1240mm
Swing Over Cross Slide	305mm	455mm	615mm	570mm	770mm	1080mm
Swing in gap	710mm	860mm	1010mm	1090mm	1290mm	1600mm
Gap length in front of face plate	170mm	170mm	170mm	235mm	235mm	235mm
Cross slide travel	300mm	375mm	424mm	500mm	600mm	700mm
Top slide travel	170mm	170mm	170mm	200mm	200mm	200mm

BED						
Width of bed	340mm	340mm	340mm	510mm	510mm	510mm
Depth of bed	350mm	350mm	350mm	450mm	450mm	450mm

HEAD-STOCK						
Spindle nose	Cam lock D1-8"	Cam lock D1-8"	Cam lock D1-8"	ASA A 1-15"	ASA A 1-15"	ASA A 1-15"
Spindle bore	80mm	80mm	80mm	155mm	155mm	155mm
Taper in reduction sleeve	5 MT	5 MT	5 MT	6 MT	6 MT	6MT
Spindle internal taper	1:20	1:20	1:20	1:20	1:20	1:20
Number of spindle speeds	18	18	18	18	18	21
Spindle speed range (RPM)	19 - 1500	19 - 1500	19 - 1500	6.5 - 500	6.5 - 500	3.15 - 500

TAIL-STOCK						
Quill diameter	80mm	80mm	80mm	170mm	170mm	170mm
Quill travel	205mm	205mm	205mm	330mm	330mm	330mm
Quill internal taper	5 MT	5 MT	5 MT	6 MT	6MT	6MT
Lateral adjustment	15mm	15mm	15mm	-	-	-

FEEDS RANGE AND GEARBOX						
Longitudinal feeds(mm/rev)	0.042- 1.013 (48)	0.042- 1.013 (48)	0.042- 1.013 (48)	0.045- 0.502 (64)	0.045- 0.502 (64)	0.045- 0.502 (64)
Cross feeds (mm/rev)	0.021-0.5 (48)	0.021-0.5 (48)	0.021-0.5 (48)	0.09-1.04 (64)	0.09-1.04 (64)	0.09-1.04 (64)
Longitudinal rapid feed (mm/min)	-	-	-	2600	2600	2600
Cross rapid feed (mm/min)	-	-	-	1300	1300	1300
Number of threads	192	192	192	96	96	96
Metric threads (mm)	0.4-7.0 (48)	0.4-7.0 (48)	0.4-7.0 (48)	0.6-8.0 (64)	0.6-8.0 (64)	0.6-8.0 (64)
Inch threads (tpi)	3.5-42 (48)	3.5-42 (48)	3.5-42 (48)	3-44 (64)	3-44 (64)	3-44 (64)
Module threads (mod)	0.1-1.75 (48)	0.1-1.75 (48)	0.1-1.75 (48)	0.375-5 (64)	0.375-5 (64)	0.375-5 (64)
Diametrical pitch threads (dp)	14-168	14-168	14-168	6-88	6-88	6-88
Enlarged feeds and pitch threads system	-	-	-	8:1	8:1	8:1
Pitch of leadscrew	6mm (4tpi)	6mm (4tpi)	6mm (4tpi)	2tpi	2tpi	2tpi

MOTORS						
Main motor	10Hp (7.5kW)	10Hp (7.5kW)	10Hp (7.5kW)	30Hp (22kW)	30Hp (22kW)	30Hp (22kW)
Rapid traverse motor	1Hp (0.75kW)	1Hp (0.75kW)	1Hp (0.75kW)	2Hp (1.5kW)	2Hp (1.5kW)	2Hp (1.5kW)
	-opt	-opt	-opt			
Coolant main motor	0.12Hp (0.1kW)	0.12Hp (0.1kW)	0.12Hp (0.1kW)	0.12Hp (0.1kW)	0.12Hp (0.1kW)	0.12Hp (0.1kW)

WEIGHT AND DIMENSIONS						
Floor space (mm)	4800 x 1400*	4850 x 1450*	4900 x 1500*	6060 x 1830*	6060 x 1850*	6060 x 1850*
Approx net weight (kg)	1600/ 2100/ 2600/ 3400/ 4300	1800/ 2300/ 2800/ 3600/ 4500	2000/ 2500/ 3000/ 3800/ 4700	7400/ 8600/ 10200/ 11000/ 11130/ 11700/ 12400	7600/ 8900/ 10400/ 11200/ 11600/ 12500/ 14300	7800/ 9200/ 10600/ 11800/ 12300/ 13480/ 16625



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