



AJAX CENTRE LATHE MODEL

AJ175SD - 400SD



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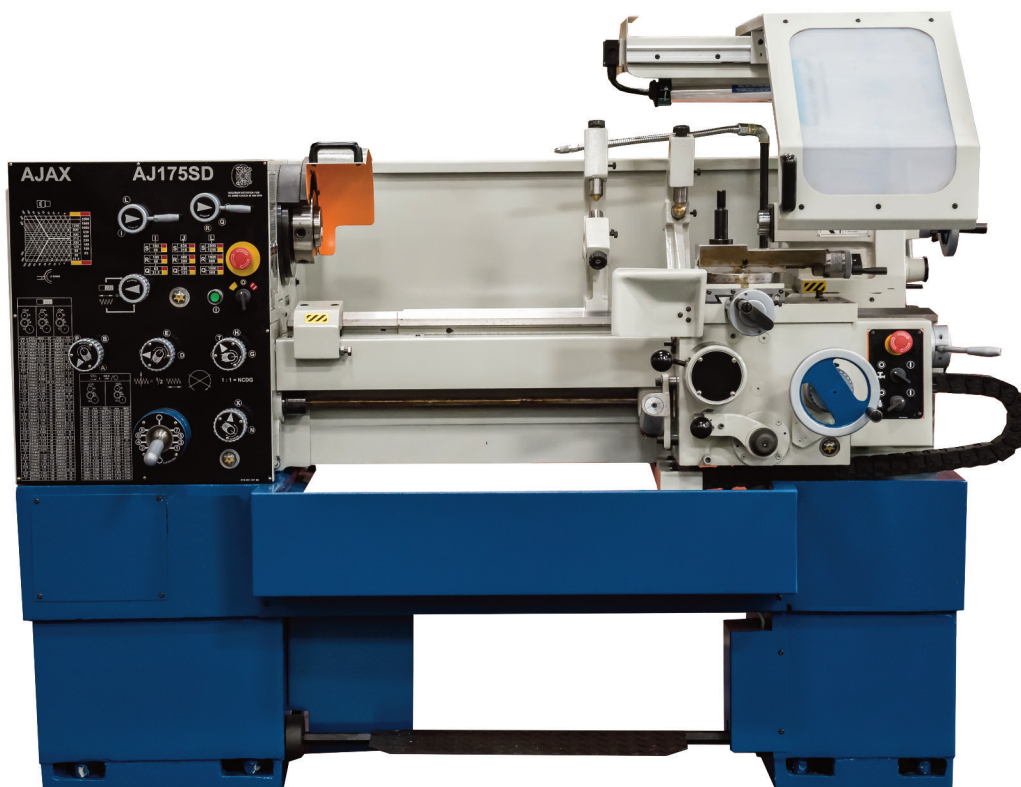
AJAX CENTRE LATHE MODEL

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This well engineered machine has Induction Hardened and Ground Bedways (480 Brinell [50-RC]). The spindle speeds are in Geometric Progression and easily selected , all Headstock gears are case hardened and “Reishauer” ground, with splined shafts which turn on anti-friction bearings. The Main Spindle is made from Chromium-Nickel-Molybdenum Alloy Steel which is High Speed Dynamically Balanced and it turns on three Preloaded High Precision Taper Roller Bearings .

The Universal Gear Box is totally enclosed and provides a comprehensive range of Metric and Inch Feeds and Threads. All gears are made from 8620 alloy steel and are hardened and ground the gears are mounted on case hardened spline shafts which turn in anti-friction bearings . The Automatic Lubrication System creates a cascade flow of oil . An adjustable safety overload feature Disengages the feed in the event of excessive load or misuse of the lathe protecting the Gear Box from damage .

The Precision Saddle is guided by a long “V” slide way bearing surface for maximum accuracy. The Cross Slide is precisely fitted to the saddle using Dovetail Slides , adding strength and eliminating torsion twist , the cross slide screw has a backlash adjustment together with adjustable taper gib strips to allow adjustment to compensate for wear when required . The Apron and Bed is automatically lubricated through a mechanical pump .



CAPACITY	AJ 175SD	AJ 220SD	AJ 250HD	AJ 325HD	AJ 400SD
Centre Height	175 mm	220mm	250mm	325mm	400mm
Swing over bed	350 mm	440mm	500mm	650mm	800mm
Swing in gap	500 mm	630mm	710mm	860mm	1010mm
Swing over cross slide	200 mm	270mm	305mm	455mm	615mm
Distance between centres	500, 800 or 1,000 mm	1,000, 1,500 or 2,000mm	1,000, 1500 2000, 3000 or 4000	1,000, 1500 2000, 3000 or 4000	1,000, 1500 2000, 3000 or 4000
Width of bed	220 mm	270mm	340mm	340mm	340mm
Height of Bed	300 mm	320mm	350mm	350mm	350mm
Cross Slide Travel	225 mm	250mm	300mm	375mm	424mm
Top Slide Travel	100 mm	125mm	170mm	170mm	170mm

HEADSTOCK

No: of spindle speeds	18	18	18	18	18
Spindle speed range	31 - 2,500	31 - 2,500	19 - 1,500	19 - 1,500	19 - 1,500
Spindle nose	A2-5 or D1-5	A2-6 or D1-6	A2-8 or D18	A2-8 or D18	A2-8 or D18
Spindle bore	46mm	52mm	80mm	80mm	80mm
Spindle taper	No.3 MT	No.4 MT	No.5 MT	No.5 MT	No.5 MT
Spindle Internal Taper	1:20	1:20	1:20	1:20	1:20

FEEDS AND THREADS

Range of cross feeds mm/rev	0.042 - 1.013	0.042 - 1.013	0.042 - 1.013	0.042 - 1.013	0.042 - 1.013
Range of longitudinal feeds	0.021 - 0.5	0.021 - 0.5	0.021 - 0.5	0.021 - 0.5	0.021 - 0.5
Number of threads	192	192	192	192	192
Range of metric threads	0.4 - 7.0 mm	0.4 - 7.0mm	0.4 - 7.0mm	0.4 - 7.0mm	0.4 - 7.0mm
Range of imperial threads	3½ - 42 tpi	3½ - 42 tpi	3½ - 42 tpi	3½ - 42 tpi	3½ - 42 tpi
Range of module threads	0.1 - 1.75 mod	0.1 - 1.75 mod	0.1 - 1.75 mod	0.1 - 1.75 mod	0.1 - 1.75 mod
Range of DP threads	14 - 168 dp	14 - 168 dp	14 - 168 dp	14 - 168 dp	14 - 168 dp
Leadscrew pitch	6mm	6mm	6mm	6mm	6mm
(4 TPI Imperial Machine Only)					

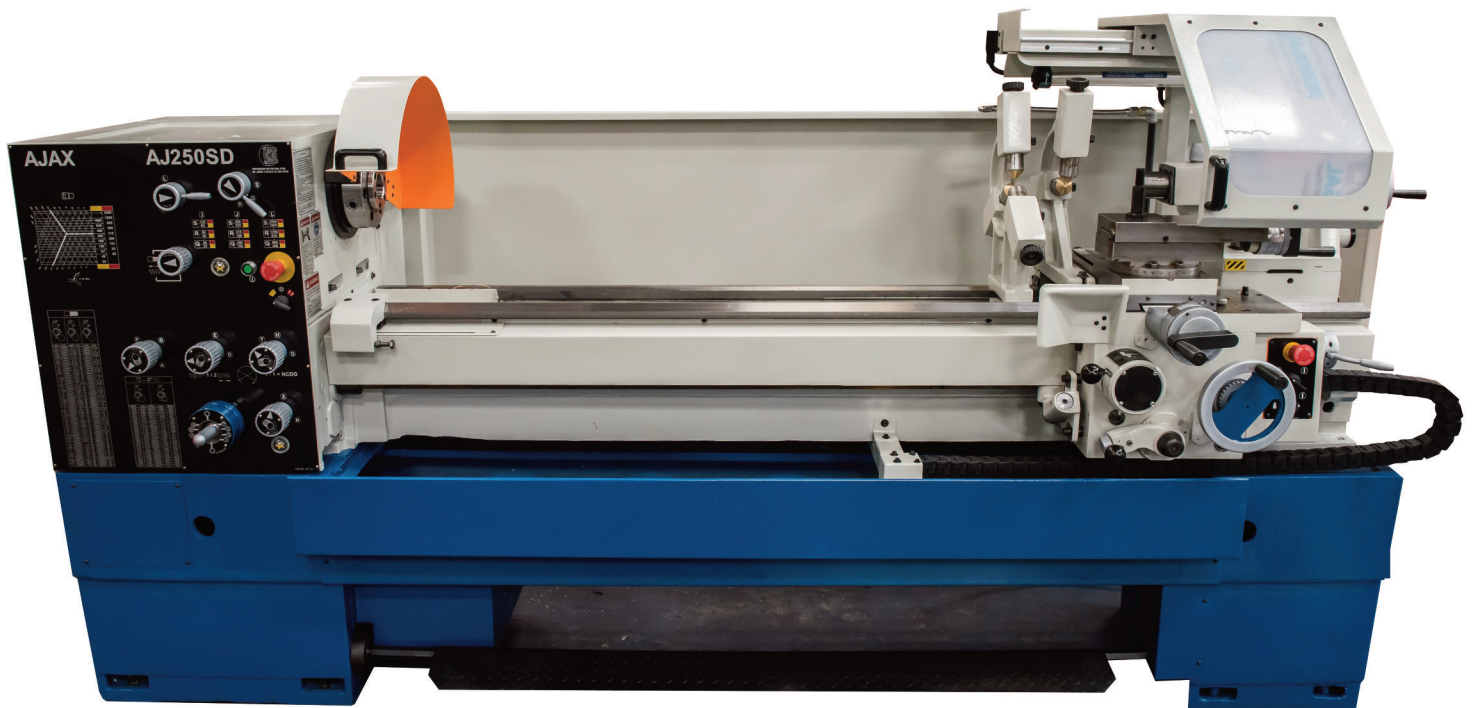
TAILSTOCK

Spindle diameter	50 mm	50mm	80mm	80mm	80mm
Spindle Morse taper	No.3	No. 3	No. 5	No. 5	No.5
Spindle travel	130 mm	130mm	205mm	205mm	205mm
Lateral movement	10 mm	10mm	15mm	15mm	15mm

MOTORS

Main motor	4.7 kW	6 kW	7.5kW	7.5kW	7.5kW
Coolant pump motor	0.1 kW	0.1 kW	0.1kW	0.1kW	0.1kW

TECHNICAL SPECIFICATIONS



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