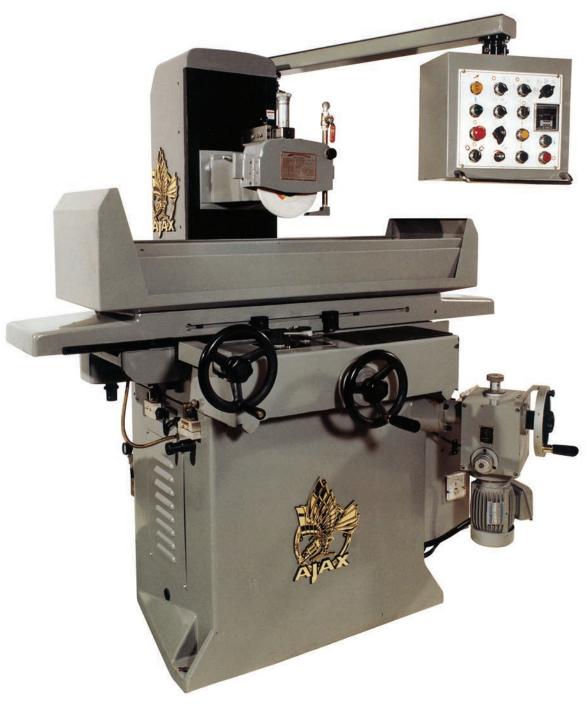


SURFACE GRINDERS

AJ 500 - AJ 3200



SURFACE GRINDERS

AJ 500 - 3200

There are numerous models of Ajax surface grinding machines with working areas up to 3200 x 850mm.

All machines are traditional in design with easy access for complete, accurate and efficient control andare suitable for toolroom and production work. The longitudinal table movement is hydraulically driven and the cross traverse and wheelhead feeds electrically driven. All have infinitely variable speed control.

All models are available with manual downfeed of the wheelhead and/or automatic downfeed which can be incrementally pre-set. Machines with the 'H' suffix indicate automatic longitudinal and cross feed as standard. Suffix 'HD' indicates that machines are also equipped with automatic downfeed.

The Wheelhead

The wheelhead spindle on all models is mounted on super precision bearings, completely sealed and maintenance free. The casting is constructed for extreme rigidity of the spindle and bearing assemblies. The grinding spindle is directly coupled to a dynamically balanced, flange-mounted motor through a shock absorbing coupling. The wheel head of all HD models is provided with rapid power positioning with fine positioning carried out by means of a 0.0025mm incremented handwheel.

Table

The longitudinal movement of the table is hydraulic and the rate of traverse is infinitely variable between ranges.

Lubrication of all slideways is by means of an electronically controlled pump unit through metering valves to the various lubrication ports. Hand traverse of the work table is by means of a handwheel rack and pinion. The table is provided with ample operator splash protection.



Model	AJ 500 H/HD	AJ 600 H/HD	AJ 750 H/HD	AJ 800 HD	AJ 1000 HD	AJ 1500 HD	AJ 2000 HD	AJ 3200 HD
Working Surface (mm)	500 x 230	600 x 260	750 x 260	800 x 400	1,000 x 500	1,500 x 500	2,000 x 600	3,200 x 850
Maximum Longitudinal								
Traverse (mm)	565	690	840	960	1,160	1,650	2,150	3,350
Longitudinal Speed								
(m/min)	6-25	6-25	6-25	6-25	5-25	5-25	5-25	5-25
Maximum Grinding								
Length & Width (mm)	508 x 254	609 x 304	762 x 305	813 x 406	1,000 x 500	1,500 x 500	2,000 x 600	3,200 x 850
Maximum Table Loading	(kg)335	335			1,000	1,200	1,500	2,400
ODINDINO UEAD								
GRINDING HEAD		055 00	055 00	005 50	100 50	100 50	E40	E10
Grinding Wheel Size (mm)		355 x 32	355 x 32	335 x 50	406 x 50	406 x 50	510 x 50	510 x 50
	x 31.5	x 127	x 127	x 127	x 127	x 127	x 127	x 127
Spindle Speed (rpm)	2,900	1,450	1,450	1,450	1,450	1,450	960	960
Maximum Height of								
Spindle Centre (mm)	500	600	600	620	600	600	850	950
Vertical Positioning	Hand (H)	Hand (H)	Hand (H)	Power	Power	Power	Power	Power
	Power (HD)	Power (HD)	Power (HD)					
Vertical Downfeed								
(HD model only)	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto
Vertical Traverse (mm)								
Handwheel Graduation	0.01	0.01	0.01	0.005	0.002	0.002	0.002	0.002
Cross Feed Handwheel								
Graduation (mm)	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02
Cross Feed Travel (mm)	0-254	0-304	0-304	0-406	0-550	0-550	0-600	0-850
Automatic Cross								
Traverse (mm)	0-9	0.9	0.9	0.12	0.25	0.25	0.38	0.38
HYDRAULIC SYSTEM								
Working Pressure								
(kg/cm2)	18-22	18-22	18-22	18-22	18-22	18-22	18-22	18-22
Tank Capacity (I)	60	60	60	80	80	80	120	160
Tall it Capacity (y								
MOTORS								
Grinding Spindle Power	2Нр	5Нр	5Нр	7.5Hp	10Hp	10Hp	10Hp	15Hp
	(1.5kW)	(3.7kW)	(3.7kW)	(5.6kW)	(7.5kW)	(7.5kW)	(7.5kW)	(11.2kW)
Cross Feed	0.2Hp	0.2Hp	0.2Hp	0.25Hp	0.25Hp	0.25Hp	0.25Hp	0.25Hp
	(0.15kW)	(0.15kW)	(0.15kW)	(0.18kW)	(0.18kW)	(0.18kW)	(0.18kW)	(0.18kW)
Vetical Positioning /	0.25Hp	0.25Hp	0.25Hp	0.25Hp	0.25Hp	0.25Hp	1Hp	
Downfeed	(0.18kW)	(0.18kW)	(0.18kW)	(0.18kW)	(0.18kW)	(0.18kW)	(0.75kW)	DC Servo
Hydraulic Pump	1Нр	2Нр	2Нр	ЗНр	5Нр	5Нр	7.5Hp	15Hp
	(0.75kW)	(1.5kW)	(1.5kW)	(2.2kW)	(3.7kW)	(3.7kW)	(5.5kW)	11kW
Coolant Pump	0.25Hp	0.25Hp	0.25Hp	0.25Hp	0.25Hp	0.25Hp	0.25Hp	0.25Hp
	(0.18kW)	(0.18kW)	(0.18kW)	(0.18kW)	(0.18kW)	(0.18kW)	(0.18kW)	(0.18kW)
Coolant Flow Rate (I/min)	25	25	25	25	40	40	40	40
WEIGHT AND DIMENSIONS								
Net weight of machine kg	1 350	1,850	1,950	2,800	4,500	5,000	8,500	15,500
Gross weight (kg)	1,600	2,150	2,250	3,150	5,200	5,800	9,600	18,000
Dimensions (mm)	1,524x914		2,149x1,076		23,760x2,235			
Olain ain a O	x1,740	x1,880	x1,880	x2,000	x2,235	x2,235	7,000,0000	10,500,0000
Shipping Case	2,060x1,680	2,260x1,740	2,260x1,730	2,680x1,740	3,370x2,280		7,000x2,800	
Dimensions (mm)	x2,050	x2,210	x2,160	x2,250	x2,220	x2,300	x2,740	x3,000

TECHNICAL SPECIFICATIONS



OPTIONAL ACCESSORIES

- 1. Inclinable magnetic chuck
- 2. Sine Bar
- 3. Coolant quipment, free standing tank
- 4. Angle forming attachment
- 5. Permanent magnetic chuck
- 6. Wheel flange (standard)
- 7. Precision vice
- 8. Radius forming attachment
- 9. Dust Control equipment
- 10. Cool duster
- 11. Electro demagnetising equipment (not illustrated)
- 12. Parallel dressing attachment (standard)



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