

Surface Grinders



Ajax Machine Tools

Machine Tool Exporters to the World

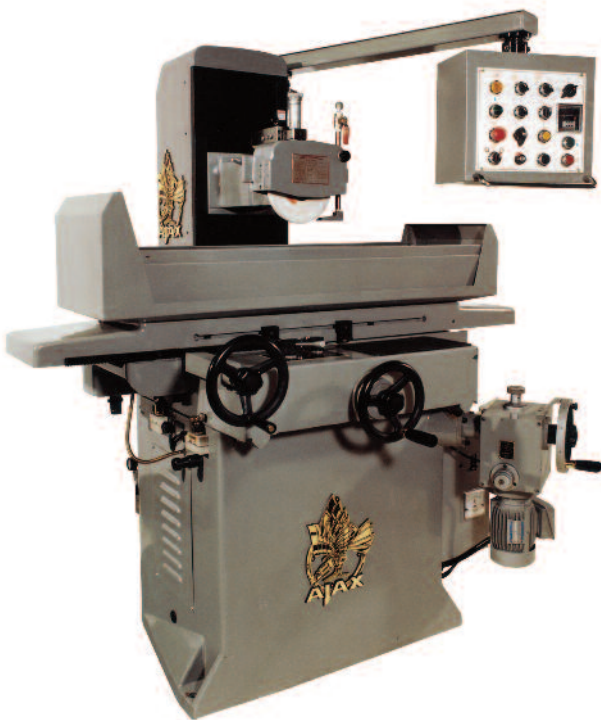
▶ ▶ ▶ ▶ ▶ Surface Grinders

RAPID HYDRAULIC GRINDERS

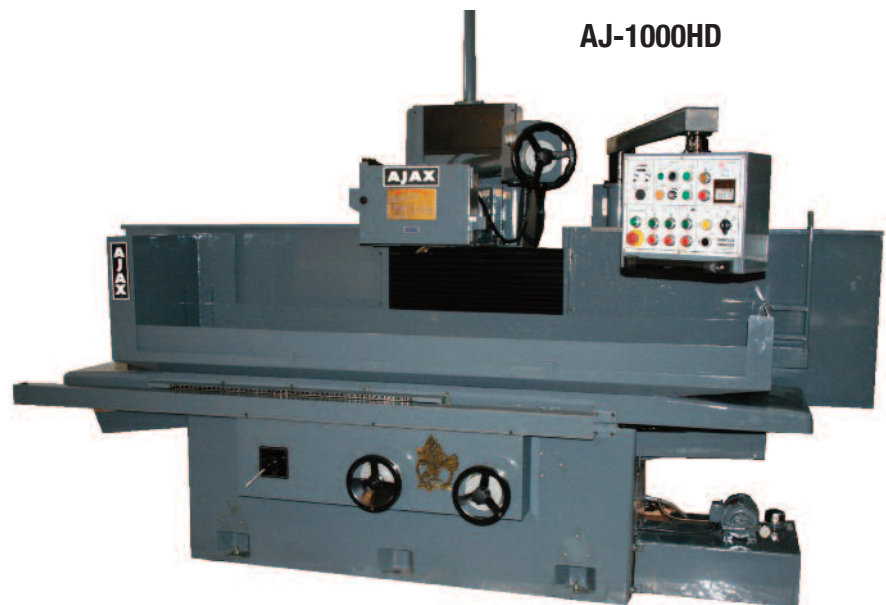
There are numerous models of Ajax Surface Grinding Machines with working areas up to 3200x850mm.

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

All models are available with manual downfeed of the wheel head 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.



AJ-500HD



AJ-1000HD

The Wheel Head

The wheel head 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 provided hydraulically and the rate of traverse is infinitely variable between the ranges shown below.

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 hand wheel 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)	483 x 228	600 x 260	737 x 254	800 x 400	1016 x 508	1524 x 508	2000 x 600	3200 x 850
Maximum Longitudinal Traverse (mm)	520	690	775	840	1116	1650	2105	3350
Longitudinal speed (m/min)	7-25	7-25	7-25	4.9-24.4	5-25	5-25	5-25	5-25
Maximum grinding length & width (mm)	508 x 254	610 x 305	762 x 305	813 x 406	1016 x 508	1524 x 508	2000 x 600	3200 x 850
Maximum table loading (kg)					1000	1300	1500	2400

GRINDING HEAD

Grinding wheel size (mm)	200 x 13 x 32	355 x 32 x 127	355 x 32 x 127	335 x 50 x 127	406 x 50 x 127	406 x 50 x 127	510 x 50 x 127	510 x 50 x 127
Spindle speed (rpm)	2900	1450	1450	1450	1450	1450	960	960
Maximum height of spindle centre (mm)	480	590	590	635	600	600	850	950
Vertical positioning	Hand (H) Power (HD)	Hand (H) Power (HD)	Hand (H) Power (HD)	Power	Power	Power	Power	Power
Vertical downfeed (HD model only)	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto
Vertical traverse (mm) handwheel graduation	0.0025	0.002	0.002	0.002	0.002	0.005	0.002	0.002
Cross feed handwheel graduation (mm)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Cross feed travel (mm)	0-267	0-330	0-343	0-406	0-558	0-558	0-600	0-850
Automatic cross traverse (mm)	0-17.5	0.16	0.16	0.25	0.25	0.25	0.38	0.38

HYDRAULIC SYSTEM

Working pressure (kg/cm ²)	18-22	18-22	18-22	18-22	18-22	18-22	18-22	18-22
Tank capacity (l)	60	60	60	80	80	80	120	160

MOTORS

Grinding spindle power	2Hp (1.5kW)	5Hp (3.7kW)	5Hp (3.7kW)	7.5Hp (5.6kW)	10Hp (7.5kW)	10Hp (7.5kW)	10Hp (7.5kW)	15Hp (11.2kW)
Cross feed	0.2Hp (0.15kW)	0.2Hp (0.15kW)	0.2Hp (0.15kW)	0.25Hp (0.18kW)	0.25Hp (0.18kW)	0.25Hp (0.18kW)	0.25Hp (0.18kW)	0.25Hp (0.18kW)
Vertical positioning / downfeed	0.25Hp (0.18kW)	0.25Hp (0.18kW)	0.25Hp (0.18kW)	0.25Hp (0.18kW)	0.25Hp (0.18kW)	0.25Hp (0.18kW)	1Hp (0.75kW)	DC Servo
Hydraulic pump	2Hp (1.5kW)	2Hp (1.5kW)	2Hp (1.5kW)	3Hp (2.2kW)	5Hp (3.7kW)	5Hp (3.7kW)	7.5Hp (5.5kW)	15Hp 11kW
Coolant pump	0.25Hp (0.18kW)	0.25Hp (0.18kW)	0.25Hp (0.18kW)	0.25Hp (0.18kW)	0.25Hp (0.18kW)	0.25Hp (0.18kW)	0.25Hp (0.18kW)	0.25Hp (0.18kW)
Coolant flow rate (l/min)	40	40	40	40	40	40	40	40

WEIGHT AND DIMENSIONS

Net weight of machine (kg)	1300	1900	1950	2800	4500	5000	8500	15500
Gross weight (kg)	1550	2200	2300	3300	5200	5800	9600	18000
Dimensions (mm)	1524x914 x1740	1850x1076 x1880	2149x1076 x1880	2502x1422 x2000	3760x2235 x2235	4648x 2235 x2235		
Shipping case dimensions (mm)	1680x1630 x2010	2010x1700 x2160	2290x1730 x2160	2670x2160 x2290	3370x2280 x2220	5180x2640 x2300	7000x2800 x2740	10500x3300 x3000



OPTIONAL ACCESSORIES

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|---|------------------------------|
| 1. Inclinal 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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