



ROTARY SURFACE GRINDERS

AJRG/AJRH



Machine Tool Exporters to the World since 1940

ROTARY SURFACE GRINDERS

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The Ajax rotary surface grinder is a high quality surface grinding machine for round components that need more circular accuracy. With our variable feed technology our machines have a better surface finish and accuracy.

Options include, Electromagnetic chuck, parallel dressing attachment, demagnetize, coolant systems, dust extraction, wheel balancing base, vertical MPG and DRO systems. These machines have the option of manual, PLC or CNC control. We think the plc is the best option giving complete control with ease. CE & CA Marked.



AJRG200



AJRG300

Precision Spindle

The low maintenance precision spindle cartridge is well lubricated and uses NSK P4 high precision bearings ensuring a spindle run out accuracy of 0.002 mm. The sealed and waterproof design also provides excellent durability and machining accuracy.

Cumulative tolerances during product assembly.

The spindle centre is tested around 360 for perpendicularity (with the table support), and a maximum tolerance of 0.003 mm is ensured.

In order to ensure efficient and precise grinding performance all machine gaps are carefully calibrated. Before any machine leaves the factory they are checked for a parallelism and straightness of 0.01mm, which greatly increases the stability during grinding and extends product life.

Lubrication

Lubrication of all slide-ways is by means of an electronically controlled pump unit through metering valves to the various lubrication ports.

| Model | AJRG-200 | AJRG-300 | AJRG-400 | AJRH-500 | AJRH-650 | AJRH-1000 |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Table Diameter (mm) | 200 | 300 | 400 | 500 | 650 | 1,000 |
| Maximum grinding Diameter (mm) | 250 | 350 | 440 | 550 | 700 | 1,100 |
| Maximum height from spindle to mag chuck(mm) | 200 | 350 | 400 | 200 | 250 | 300 |
| GRINDING HEAD | | | | | | |
| Grinding wheel size (mm) | 180 x 13 x 31.75 | 355 x 38 x 127 | 355 x 38 x 127 | 250 x 25 x 76 | 350 x 40 x 76 | 350 x 50 x 127 |
| Spindle speed (rpm) | 2,850 | 1,450 | 1,450 | 1,450 | 1,450 | 1,500 |
| Rotary Table Speed (rpm) | 100 | 100 | 200 | 10-50 | 8-40 | 5-20 |
| Vertical MPG per Rev (mm) | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Vertical MPG per Graduation (mm) | 0.001 | 0.001 | 0.001 | 0.002 | 0.002 | 0.002 |
| Tank capacity (l) | 60 | 60 | 60 | 60 | 60 | 60 |
| 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) |
| Coolant flow rate (l/min) | 40 | 40 | 40 | 40 | 40 | 40 |
| WEIGHT AND DIMENSIONS | | | | | | |
| Net weight of machine (kg) | 1,000 | 1,400 | 1,650 | 1,900 | 2,500 | |

TECHNICAL SPECIFICATIONS



AJRH500



AJRH600

Rigidity & Stability

The main parts of the machine are made from stress relieved Meehanite castings to ensure rigidity, stability and accuracy.

Using a fixed hand scraper will not only increase the precision of your machine but it will also extend product lifespan.

Hand Scraping

Grinding the hand scraper twice on both sides before use ensures that the machines sliding surface can be precisely and uniformly scraped. This will give customers the best finish providing high precision machining.



AJRH 1000

Auto Grinding Z -limit

| | | | | | |
|---------------------|-------------------|-----------------------|----------------------|-----------------|----------|
| Y | -9999.999 | Total Grinding Amount | -999.999 | Z1 | -999.999 |
| Z | -9999.999 | Rough Feed Amount | -999.999 | Set second Zn | |
| | Counter clockwise | Fine Feed Amount | -999.999 | Z2 | -999.999 |
| RPM | -999 | Fine Feed Value | -999.999 | Spark Out Times | |
| Z: | -999 % | Spark Out Times | 99 | Spark Out Times | 99 |
| Timer | -9999999 Sec. | Table auto velocity | Table constant speed | Time Out | |
| Q | -9999999 RST. | Y safety high close | Y safety high open | -999.999 | Z Home |
| back YO at starting | | Z stay | Z Move out | -999.999 | |

10-全自動寸磨機(10)：1024X600

**AJRG
CONTROLS**



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