

3060AHD High Precision Surface Grinding Machine

Model 3060AHD | Surface Grinding Machine | WUK Machinery, Shenzhen China



Overview

The 3060AHD combines hydraulic left and right table traverse with servo controlled vertical feed and stepped cross feed. Automatic down feed runs from 0.1 to 8 mm, so a roughing and finishing sequence completes without an operator on the handwheel. X travel is 720 mm on a 300 x 600 mm table rated for 600 kg.

Who It Is For

Tool rooms moving from one off work to repeat batches, die shops running scheduled maintenance grinding, and production plants that need a surface grinder an operator can load and leave.

Key Benefits

- **Automatic Down Feed 0.1 to 8 mm** – The cycle steps the wheel down on its own, which is what makes the tenth part match the first one.
- **Servo Z Axis at 0.005 mm Graduation** – Vertical handwheel graduation is 0.005 mm per division over 1 mm per turn, so finishing passes are set deliberately.
- **720 mm X Travel on a 600 mm Table** – Overtravel at both ends means the wheel fully clears the workpiece, removing the burn mark that happens when it stops on the part.
- **50 Hz and 60 Hz Rated** – Table and wheel speeds are specified for both supply frequencies, so the machine is correct wherever it lands.

Technical Features

- Hydraulic left and right table traverse with forward and backward stepping cross feed
- Servo controlled automatic vertical feed
- Table speed variable from 5 to 25 m per minute
- Wheel up to 350 x 40 x 127 mm at 1450 rpm on 50 Hz
- 5 x 4 HP spindle motor with 750 W Z axis servo
- Rapid Z movement at 230 mm per minute

3060AHD Specifications

Figures are taken from the machine data sheet. Items not documented are marked TBC rather than estimated.

Table size (X by Y)	300 x 600 mm
X axis travel	720 mm
Y axis travel	360 mm
Max centre of wheel to table	520 mm
Maximum load	600 kg
Table T slot specification	14 mm x 1
Table speed	5 to 25 m/min
Hand wheel feed graduation	0.02 mm per division over 5 mm
Automatic feed	0.1 to 8 mm
Rapid moving speed (50 Hz / 60 Hz)	990 / 1190 mm/min
Grinding wheel size (max)	350 x 40 x 127 mm
Grinding wheel speed (50 Hz / 60 Hz)	1450 / 1740 rpm
Z axis hand wheel graduation	0.005 mm per division over 1 mm
Z axis rapid speed	230 mm/min
Spindle motor	5 x 4 HP
Z axis motor	750 W
Hydraulic motor	2 x 6 HP
Cooling motor	90 W
Y axis motor	80 W
Machine overall dimensions (L x W x H)	2000 x 1900 x 1810 mm
Machine weight	2200 kg

Applications

- Repeat production grinding of hardened die plates
- Finishing punch and die components after heat treatment
- Grinding parallels, gauge blocks and setting pieces
- Batch flatting of machine base plates and wear pads
- Precision plate work for jigs, fixtures and inspection tooling

Materials and Construction

Cast iron bed, column and saddle with hardened ground slideways. Servo drive on the vertical axis. Wheel and chuck specified with the machine.

Quality Control Before Shipping

- Table to spindle parallelism measured on the assembled machine
- Servo feed increment verified against the dial graduation

- Rapid and cutting traverse speeds checked at rated frequency
- Ground test pieces measured for parallelism and finish
- Electrical inspection and earth continuity test

Customisation Options

- Control voltage and frequency set for your supply
- Magnetic chuck sized to your parts
- Automatic wheel dresser and coolant filtration packages
- Wheel guard and enclosure options for dry or wet work
- Wheel grade selected for your material and stock removal

Certification

Certification is quoted and confirmed in writing on request. Documented certification status for this model is TBC.

Commercial Terms

- Minimum order: 1 set
- Delivery: 15 to 45 working days after deposit
- Trade terms: EXW, FOB, CFR and CIF
- Packing: plywood cases lined with plastic film
- Warranty: 12 months on the machine
- CNC control options where applicable: FANUC, SIEMENS, SYNTEC and GSK

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