

# 4080AHD High Precision Surface Grinding Machine

Model 4080AHD | Surface Grinding Machine | WUK Machinery, Shenzhen China



## Overview

The 4080AHD is built for plate work that will not fit a 600 mm table. X travel is 950 mm, Y travel is 460 mm and the table carries three 14 mm T slots for heavier fixturing. The spindle motor steps up to 7.5 x 4 HP, matched to the larger 350 mm wheel and deeper cuts the bigger table invites.

## Who It Is For

Mould makers working on large tooling, heavy machinery builders, machine tool rebuilders, and plants that currently split large plates across two setups on a smaller grinder.

## Key Benefits

- **400 x 800 mm Table With Three T Slots** – Long plates and multi part fixtures bolt down properly instead of hanging over the ends of an undersized table.
- **950 mm X Travel** – The wheel clears an 800 mm workpiece completely at both ends, which keeps edges free of dwell marks.
- **7.5 x 4 HP Spindle** – More spindle power means the machine holds wheel speed under a deeper cut rather than stalling into the part.
- **High Dimensional Accuracy on Metal Parts** – Specified for precision metal part surface grinding where both dimensional accuracy and surface roughness are controlled requirements.

## Technical Features

- 400 x 800 mm table with three 14 mm T slots
- 950 mm X axis and 460 mm Y axis travel
- Automatic down feed from 0.1 to 8 mm
- Wheel up to 350 x 40 x 127 mm at 1450 rpm on 50 Hz
- 3 x 6 HP hydraulic motor and 750 W Z axis servo
- 510 mm maximum wheel centre to table clearance

# 4080AHD Specifications

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

|                                        |                                 |
|----------------------------------------|---------------------------------|
| Table size (X by Y)                    | 400 x 800 mm                    |
| X axis travel                          | 950 mm                          |
| Y axis travel                          | 460 mm                          |
| Max centre of wheel to table           | 510 mm                          |
| Maximum load                           | 600 kg                          |
| Table T slot specification             | 14 mm x 3                       |
| 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                          | 7.5 x 4 HP                      |
| Z axis motor                           | 750 W                           |
| Hydraulic motor                        | 3 x 6 HP                        |
| Cooling motor                          | 90 W                            |
| Y axis motor                           | 80 W                            |
| Machine overall dimensions (L x W x H) | 2510 x 2150 x 1890 mm           |
| Machine weight                         | 2600 kg                         |

## Applications

- Grinding large mould plates and bolster plates
- Finishing machine bed ways and wear strips
- Multi part fixture grinding where several components are held at once
- Flatting long guide rails and slide plates
- Precision plate work in aerospace, energy and heavy machinery

## Materials and Construction

Stress relieved cast iron bed, column and saddle with hardened ground slideways, servo vertical drive and hydraulic table traverse. Wheel and chuck specified per application.

## Quality Control Before Shipping

- Table flatness measured across the full 800 mm length
- Spindle to table parallelism verified at both ends of travel

- Automatic feed increment checked against setting
- Test pieces ground and measured for flatness and finish
- Electrical and earth continuity inspection before packing

### Customisation Options

- Magnetic chuck sized for the 400 x 800 mm table
- Coolant filtration and chip handling options
- Automatic wheel dresser
- Supply voltage and frequency configured for your site
- Fixture design support for multi part setups

### 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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