Hydraulic Automatic Surface Grinder Machine with SIEMENS PLC

Control System Ideal for Grinding Heavy Duty Work-pieces
Such kind of MM-HFS80200 advance is the heavy duty Hydraulic Automatic Surface Grinding Machine which is been made in ISO9001 factory from MAXNOVO Machine with CE Safety Certification. This high precision automatic surface grinder with SIEMENS PLC Smart Control System is ideal for maximum grinding of large work-pieces.

Main Feature:

Convincing Arguments : Quality, Efficiency and Price

- Max. Grinding Work-pieces Size 800 X 2000 mm
- Max. Load Work-piece Weight 2000 KGS
- SIEMENS PLC Smart Control System with Touch Screen
- Servo Motor drive for Vertical Spindle Feed
- Features an Automatic Vertical Feed, whereby the operator can preselect the depth and quantity
- Hydraulically operated linear table movement, infinitely variable speed, high consistency and soft reversal of direction
- Grinding wheel idle feeds can be motorized – a true time save
- Hydraulic system guarantees soft table traverse even at high work load
- The rigid, wide work table moves only on one-axis – this design allows for an extra-long table guide-way on a very wide machine base, ensuring perfect load distribution at both travel end positions
- Large grinding spindle, dynamically balanced, completely sealed with permanent lubrication
- V-guides and box-ways are counter-laminated with Turcite B, ensuring table smooth movement at any load
- Column moves in the Z-axis on hand-scraped, counter-laminated V-guides and box-ways ensuring total elimination of any stick-slip effect
- The grinding spindle moves only vertically – this design ensures 100% exact grinding wheel feed with maximum angular precision across the entire work area
- The stand-alone hydraulic unit easy to maintain and mechanically and thermally separated from main machine frame to ensure the most constant working conditions possible
- Grinding spindles are carefully assembled by experienced professionals in air-conditioned clean rooms using selected precision bearings
- Once the machine is put into operation, the automatic central lubrication system supplies all guides and preloaded ball screws with correct amount of oil
- Powerful 7500W spindle main motor ensures maximum performance
- Connecting voltage Three Phase 400V
- Certificate of Original (CO, FORM A, FORM E, FORM F)
SIEMENS PLC Smart Control System and Touch Screen Panel
In this automatic mode, the vertical feed increments can be preselected.

Hydraulic Unit and Coolant Unit
**Technical Data:**

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>Hydraulic Automatic Surface Grinder with Siemens PLC System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Item:</td>
<td>MM-HFS 80200 advance</td>
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<tr>
<td>Control System:</td>
<td>SIEMENS PLC Control System</td>
</tr>
<tr>
<td>Max. Grinding Area:</td>
<td>800 X 2000 mm</td>
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<tr>
<td>Table Size:</td>
<td>800 X 2000 mm</td>
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<tr>
<td>Max. Table Load Work-piece:</td>
<td>2000 KGS</td>
</tr>
<tr>
<td>T-Slot Size (quantity x width):</td>
<td>3 pieces X 16 mm</td>
</tr>
<tr>
<td>Distance Spindle Nose to Table Surface:</td>
<td>800 mm</td>
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</tbody>
</table>

**Travels**

- Max. Longitudinal Travel (X-axis): 2230 mm
- Max. Cross Travel (Y-axis): 650 mm

**Speed**

- Table Speed: 7 — 25 mm/min (hydraulic)
- Feed Speed of X-axis: 7 — 25 mm/min
- Feed Depth of Y-axis: 0.001 — 1 mm
  
  **(Automatic Down Feed Elevation)**

- Automatic Z-axis Speed: 0.5 — 12 mm/min
  
  **(Automatic Cross Feed of Saddle)**

**Grinding Wheel**

- Grinding Wheel Dimensions: Φ 400 X 50 X Φ 127 mm
- Spindle Speed: 1450 RPM
- Vertical move grinding head by hand-wheel:
  
  **Per Grad** 0.001 mm
  **Per Rev** 1 mm

**Drive Capacity**

- Spindle Motor: 7500 W
- Hydraulic Motor: 5500 W
- Vertical Motor: 2000 W
- Coolant Motor: 90 W
- Cross Feed Motor: 370 W
- Connecting Voltage: Three Phase 400V
- Gross Weight: 10850 KGS
- Packing Size: 6380 X 2280 X 2280 mm

**Standard Accessory:**