USACH
ID GRINDING MACHINES
**USACH**

**ID GRINDING SYSTEMS**

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**Turret**  
Fully programmable multi-spindle turret

**Gaging and Probing**  
In-process/Post-process Active and passive length positioning Size and location probing

**B-Axis**  
CNC workhead continuous swivel axis with high precision rotary encoder +/- 95°

**Center Drive System**  
Simultaneous grinding from the left and right side of the workpiece

**Customer Specific Clamping Solutions**  
Example: Axial clamping system

**Dressers**  
Single point, diamond disk, roll, radius ID/OD

**Automation**  
Integrated 7 axes robot, post-process gaging and part conveying system
SINGLE WHEELHEAD, TURRET CONFIGURATIONS AND SPECIAL SOLUTIONS

Whether the solution requires a single wheelhead, multiple wheelheads (OD and ID) on a turret or simultaneous grinding, we have the solution.

CONTROL SYSTEM
Siemens or Fanuc

USACH OPEN ARCHITECTURE SYSTEM PROGRAMMING SOFTWARE

TECHNICAL DETAILS

<table>
<thead>
<tr>
<th></th>
<th>100</th>
<th>150</th>
<th>200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max swing diameter</td>
<td>450 mm (17.71&quot;)</td>
<td>610 mm (24&quot;)</td>
<td>812 mm (32.00&quot;)</td>
</tr>
<tr>
<td>Max part length</td>
<td>255 mm (10&quot;)</td>
<td>1020 mm (40&quot;)</td>
<td>1400 mm (55&quot;)</td>
</tr>
<tr>
<td>Max workpiece weight</td>
<td>272 kg (500 lbs.)</td>
<td>454 kg (1000 lbs.)</td>
<td>725 kg (1600 lbs.)</td>
</tr>
<tr>
<td>X axis stroke</td>
<td>500 mm (19.68&quot;)</td>
<td>400 mm (15.75&quot;)</td>
<td>600 mm (23.62&quot;)</td>
</tr>
<tr>
<td>Z axis stroke</td>
<td>300 mm (11.80&quot;)</td>
<td>500 mm (19.68&quot;)</td>
<td>600 mm (23.62&quot;)</td>
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</tbody>
</table>
HARDINGE WORLDWIDE

Hardinge is a leading international provider of advanced metal-cutting solutions. We provide a full spectrum of highly reliable CNC turning, milling, and grinding machines as well as technologically advanced workholding accessories.

The diverse products we offer enable us to support a variety of market applications in industries including aerospace, agricultural, automotive, construction, consumer products, defense, energy, medical, technology, transportation and more.

We’ve developed a strong global presence with manufacturing operations in North America, Europe, and Asia. Hardinge applies its engineering and applications expertise to provide your company with the right machine tool solution and support every time.

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