## OVERVIEW OF TOOL HOLDER TECHNOLOGY

### Tool Holding Systems For Cylindrical Shank Cutting Tools

<table>
<thead>
<tr>
<th>Application Areas</th>
<th>Shrink Fit Technology</th>
<th>Mechanical Tool Holders</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Shrink Fit Chuck</td>
<td>Power Collet Chuck</td>
</tr>
<tr>
<td></td>
<td>Standard</td>
<td>Heavy Duty Collet Chuck</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HS-Chuck</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Weldon Chuck</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Whistle-Notch</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hydraulic Chuck**</td>
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<tr>
<td></td>
<td></td>
<td>Milling Chuck**</td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drill  / Finishing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High Speed Cutting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Roughing</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Application Areas

- **Drilling**
- **Finishing**
- **High Speed Cutting**
- **Roughing**

### Clamping Range (mm)

<table>
<thead>
<tr>
<th>Application</th>
<th>Standard DIN 69871</th>
<th>JIS B6339</th>
<th>ASME B5.50</th>
<th>DIN 69893-1</th>
<th>DIN 69893-5</th>
<th>ISO 26623</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>up to 50.000</td>
<td>up to 50.000</td>
<td>up to 10.000</td>
<td>up to 15.000</td>
<td>up to 50.000</td>
<td>up to 15.000</td>
</tr>
<tr>
<td></td>
<td>up to 63.000</td>
<td>up to 63.000</td>
<td>up to 15.000</td>
<td>up to 25.000</td>
<td>up to 15.000</td>
<td>up to 15.000</td>
</tr>
<tr>
<td></td>
<td>up to 100.000</td>
<td>up to 100.000</td>
<td>up to 25.000</td>
<td>25.000 up to 80.000</td>
<td>up to 15.000</td>
<td>up to 15.000</td>
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</tbody>
</table>

### Runout (mm) at 3xD

<table>
<thead>
<tr>
<th>Application</th>
<th>Standard DIN 69871</th>
<th>JIS B6339</th>
<th>ASME B5.50</th>
<th>DIN 69893-1</th>
<th>DIN 69893-5</th>
<th>ISO 26623</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>up to 0.003 mm</td>
<td>up to 0.003 mm</td>
<td>up to 0.003 mm</td>
<td>up to 0.003 mm</td>
<td>up to 0.003 mm</td>
<td>up to 0.003 mm</td>
</tr>
<tr>
<td></td>
<td>up to 0.02 mm</td>
<td>up to 0.02 mm</td>
<td>up to 0.005 mm</td>
<td>up to 0.005 mm</td>
<td>up to 0.005 mm</td>
<td>up to 0.005 mm</td>
</tr>
<tr>
<td></td>
<td>up to 0.03 mm</td>
<td>up to 0.03 mm</td>
<td>up to 0.03 mm</td>
<td>up to 0.03 mm</td>
<td>up to 0.03 mm</td>
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</tr>
</tbody>
</table>

### Interfaces

<table>
<thead>
<tr>
<th>Interfaces</th>
<th>Sleep taper SK, BT, CAT</th>
<th>HSK-A/E</th>
<th>HAIMER CAPTO™</th>
<th>HAIMER KM4X™</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>DIN 69871, JS 86339, ASME B5.50</td>
<td>DIN 69893-1, DIN 69893-5</td>
<td>ISO 26623</td>
<td></td>
</tr>
</tbody>
</table>

### Quality

- **HAIMER**: 3,000 measuring points guarantee high-end tolerance of ±0.003 mm. All functional surfaces are finished according to HAIMER’s high-end standards. For highest breakage and process security. 
- **HAIMER** Standard DIN 69871, JIS B6339, ASME B5.50, DIN 69893-1, DIN 69893-5 ISO 26623.

### Info

- **Tradition**: Interface for milling & grinding. Very robust. Also applicable for heavy-duty machining. Clamping always with additional pull stud. Centering via taper surface, without face contact. For applications up to 12,000 rpm due to taper design limitation.

### Cleaning

- **Cleaning**: Necessary for accurate and sensitive machining.