R line
Precision Honing Machine
Rotary Honing Machine R line.
Maximum honing productivity with minimum space requirement.
High-Precision Series with up to 6 Honing Stations.
Customized multi-spindle configuration for large scale production.

**Highlights**
- Perfect for very large production volumes
- Small footprint due to patented machine design
- Wear-free rotary table workpiece transport
- Modular configuration with 3 to 6 honing spindles
- KADIA Smart Dynamic honing technology
- Measuring stations with up to 16 air gaging levels and optional air scanning function
- Optional stations: Pre-check, alignment, brush deburring with tool changer, blow-off...
- Highly productive twin-cycle processes are feasible
- Possible match honing of bore to piston
- Various automation solutions are applicable

**Technical data KADIA R line**

**Basic machine**
- **Dimensions and weight**: Dependent on configuration
- **Color**: RAL 7035 with RAL 7016
- **Noise emission**(1): < 72 dB(A)

<table>
<thead>
<tr>
<th>Honing spindle</th>
<th>LH2/25</th>
<th>LH3/40</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Stroke length</strong>(2) [max.]</td>
<td>250 mm</td>
<td>400 mm</td>
</tr>
<tr>
<td><strong>Stroke rate</strong> [max.]</td>
<td>50 m/min</td>
<td>50 m/min</td>
</tr>
<tr>
<td><strong>Spindle speed</strong>(3) [max.]</td>
<td>5,000 rpm</td>
<td>3,000 rpm</td>
</tr>
<tr>
<td><strong>Material removal rate</strong>(4) [max.]</td>
<td>18 mm³/s</td>
<td>30 mm³/s</td>
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</tbody>
</table>

(1) Dependent on the machining process
(2) Possible special stroke lengths: LH2/40 with max. 400 mm, LH3/63 with max. 630 mm
(3) Spindle speed LH2 without internal coolant supply: max. 8,000 rpm
(4) Rough machining with 80% utilization of honing spindle
Smart Dynamic Honing Technology.

HMC100 – intelligent and intuitive
High-performance honing control
- State-of-the-art honing programs
- Integrated process force measurement
- User-friendly 19” display
- Latest hardware generation
- Flexible for future options

LH2 / LH3 – fast and productive
Lean high-speed honing spindles (pat.)
- Compact and modular design
- Linear drive with 5 year warranty
- Very high material removal rate
- Ultra-precise spindle run-out
- Internal coolant supply