

# 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 <sup>(1)</sup>	< 72 dB(A)

### Honing spindle

	LH2/25	LH3/40
Stroke length <sup>(2)</sup> [max.]	250 mm	400 mm
Stroke rate [max.]	50 m/min	50 m/min
Spindle speed <sup>(3)</sup> [max.]	5,000 rpm	3,000 rpm
Material removal rate <sup>(4)</sup> [max.]	18 mm <sup>3</sup> /s	30 mm <sup>3</sup> /s

<sup>(1)</sup> Dependent on the machining process

<sup>(2)</sup> Possible special stroke lengths: LH2/40 with max. 400 mm; LH3/63 with max. 630 mm

<sup>(3)</sup> Spindle speed LH2 without internal coolant supply: max. 8,000 rpm

<sup>(4)</sup> Rough machining with 80% utilization of honing spindle



# Smart Dynamic Honing Technology.

Less complexity. More efficiency.



## 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



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KADIA is certified in compliance with ISO 9001, VDA 6.1 and VDA 6.4