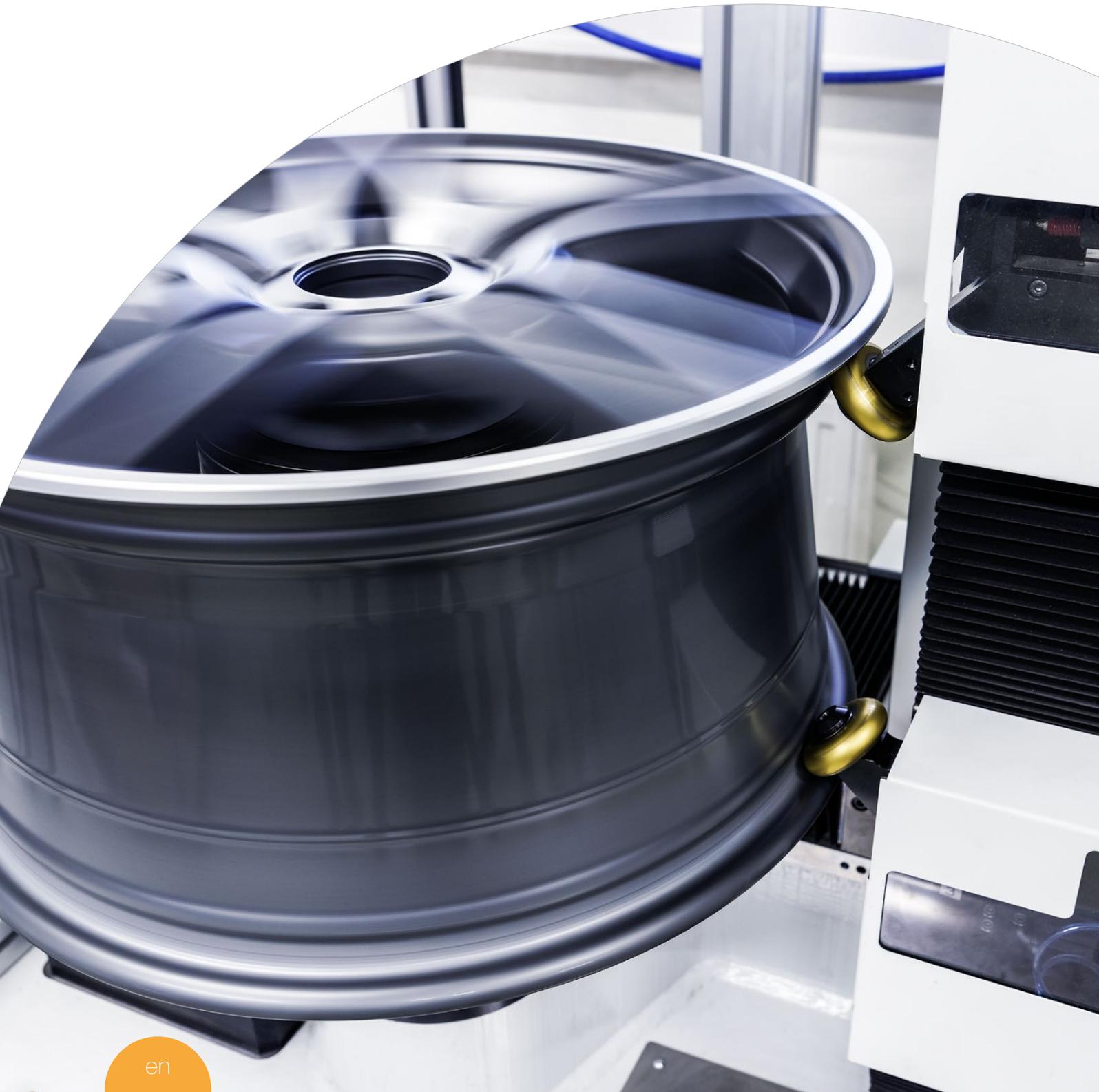


EXA

Concentricity and runout test



EXA

Concentricity and runout test

MAKRA measuring machines were developed to enable the simultaneous measurement of radial and axial runout on the outer and inner tire seat.



YOUR ADVANTAGES

- » Accurate clamping and high-precision measurement
- » Wide clamping range possible
- » User-friendly handling

FEATURES

Radial/axial runout

Simultaneous measurement of concentricity and runout.



Match point

Automatic attachment of the match point (optional).



Wall thickness

Minimum and maximum wall thickness measurement at three different heights and 360°.



A-value

Precisely measurement of the A-value.



Hump measurement

Precise measurement of the inner and outer hump.



TECHNICAL DATA

Machine features	measured values on the wheel	radial and axial runout inside/outside rim width diameter of the tire seat calculation 1 – 6 harmonious and match point measurement/calculation concentricity & axial offset measurement of the center bore A-value measurement match point marking
Wheel parameters	wheel size wheel height	14 – 24" 5 – 14"
Performance characteristics	measuring accuracy center bore concentricity clamping measuring system linear scales measuring system inductive measuring probes	repeatability < 10 µm < 0.02 mm resolution: 0.001 mm resolution: 0.001 mm
Technical components	HMI control system input wheel parameters	via control panel industrial PC via control panel
Interfaces		Profibus
Media	electric connection pneumatic connection	3 x 400 VAC, 50 Hz, 7.5 kW optional 3 x 480 VAC, 60 Hz, 9.5 kW at least 6 bar, class 4
Machine dimensions	L x W x H	1000 x 1600 x 1600 mm

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