

## Wheel balancing machines for industrial purpose

### RATEC 1 - Wheel balancing machine

Version: February 2025



#### Special features

- Digital display of measured values
- Indication of static and dynamic unbalance
- Automatic GOOD-indication
- Start/stop-automatic
- Self-check of the machine when switched on
- Input of wheel-/rim dimensions possible in millimeter
- Special pneumatic fixture chuck with clamping inserts for clamping in the central bore of the rim
- Automated clamping of the rim by closing the protection cover
- Unbalance compensation of the balancing spindle possible
- Due to the vertical mounted balancing spindle the wheel is easily clamped and exactly centered. This prevents wear of the clamping device.
- Small footprint

RATEC 1 is particularly engineered to be used for the aluminum rim production. RATEC 1 features high precision balancing accuracy and short measurement time (6 sec.). The automatic pneumatic fixture chuck provides short cycle times. Clamping inserts for rims with differing hub diameters are available.



#### Technical Data

Rim width:	3" – 12"
Rim diameter:	8" – 23"
Wheel width:	ca. 400 mm
Wheel diameter:	ca. 700 mm
Wheel weight:	75 kg
Machine weight approx.:	200 kg
El. connection:	400V, 50Hz, 3Ph
Pneumatic connection:	6-8 Bar
Measurement speed:	ca. 250 U/min



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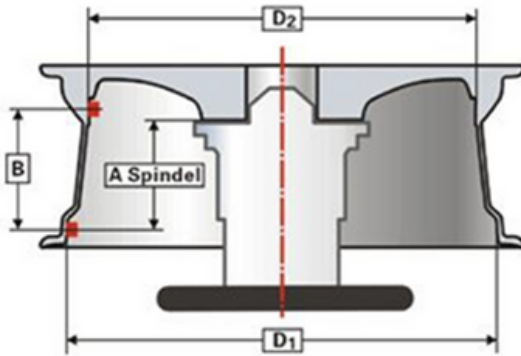
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#### Input positions of the rim values



#### Wheel-/ rim dimensions

Input positions of the values D1, D2, B, A



- Display of static/ dynamic measurement
- Featuring indication of the unbalanced angle for both levels
- Operator panel with start/stop button
- Rotary control button for entering the wheel-/rim dimensions

#### Different clamping devices

Ratec 1 is available with following clamping devices:

MAKRA-Spindel



Konus-Spindel



FixMatic



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