# Balancing Machine for Aluminium Rims

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Intelligent Balancing Solutions

## Advantages

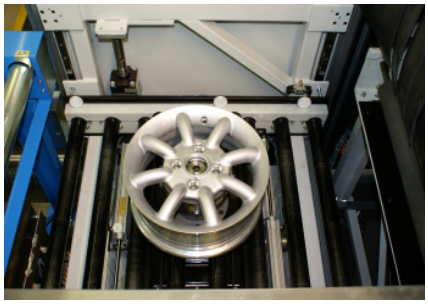
- Modular and compact design
- Spare-saving assembly
- Short installation and set-up „Hook Machine“ (Pick & Place)
- Maximum of flexibility and availability
- No need of changeover with other rotor types (mix production)
- Improvement of quality process due to integrated automatic calibration (patent-registered operation)
- Automatic type selection (integrated camera system)
- No separate loading

## Applications

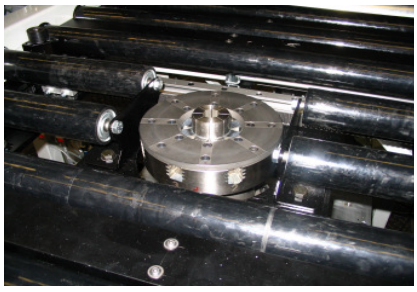
- Unbalance measuring of aluminium rims in 1 or 2 planes
- Static or couple unbalance
- Applicable as:
  - single machine (manual loa ding), integrable in robot cell
  - or as in-line concept in existing machine lines
- Marking of heavy or light point with interface to separate outward transfer → rectification

## Description

- Unbalance detection of aluminium rims without changeover
- Hard-bearing measuring system / permanent calibration
- Automatic rotor transport with friction rollers
- Scanning of distance between “wheel flange“ and “lower edge rim“ or of wheel offset in the inlet conveyor (option)
- Automatic detection of rim type and position of valve seat by integrated camera system (option)
- Integrated marking device (Match-Point)
- Ethernet interface to CAQ-System
- Profibus interface to conveyor
- Coordinated interface to subsequent geometric station (option)
- Additional camera for recording of the number of the coquille cast



Mid conveyor-belt with lifting unit



8-jaw chuck

**Subject to technical alterations!**

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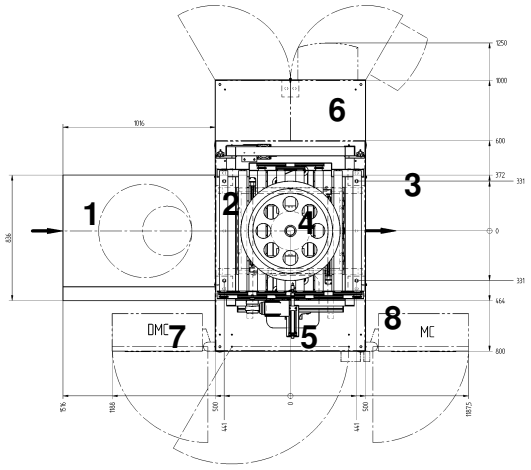


1 inlet 2 lowerable intermediate belt 3 outlet (option)
4 unbalance detection 5 Match-Point marking 6 control cabinet 7 OP camera system
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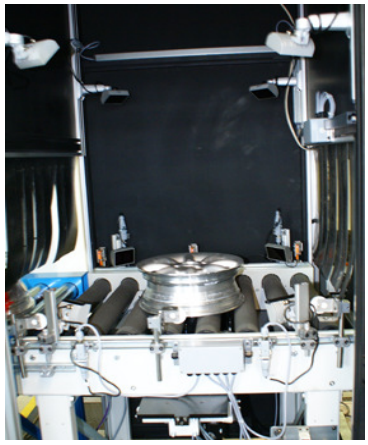
Inlet-conveyor with design detection


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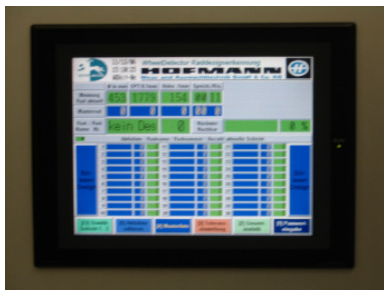
OP camera system

## Technical Data

| **Rotor** | | |
|---|---|---|
| Weight | kg | up to 45 |
| Outer diameter | mm | max. 650 |
| Inner diameter | mm | min. 330 |
| Diameter of tire fit | Inch | 13“ - 24,5“ |
| Size of wrench | Inch | 3,5“ - 13“ |
| Offset | Inch | -1,2“ - 2,75“ |

| Machine | | |
|---|---|---|
| Length x Width x Height | mm | 1000 x 1800 x 2100 |
| Speed, approx. | 1/min | 400 |
| Cycle time | s | < 13 sec |

## Options

- Camera system for automatic type detection
- Scanning of wheel flange and wheel offset in inlet-conveyor
- Match-Point marking device
- Detection of valve seat (bias unbalance)
- Switch-over between static and couple unbalance
- Interface to interlinking (Profibus)
- Interface CAQ-System (Ethernet)
- Interface printer (Profibus)
- Coquille cast recording
- Interface to subsequent geometric station (Profibus)
- automatic calibration test

## Content of delivery

- Machine housing in compact design
- 2-plane measuring device (hard-bearing system)
- Safety housing class B
- Control cabinet with air conditioner
- Control system Siemens S7
- Measuring electronic with operator panel

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