Balancing Machine for Clutch Pressure Plates
CVW-N

Applications
- Balancing of clutch pressure plates in a fully automatic production line in the automotive and automotive supplier industry.
- Unbalance correction by insertion of correction rivets with two different weight ranges.
- Loading as required
  - with gantry
  - with robot
  - manually
- For reduction of cycle time a second servomotorically moveable measuring station, is available as an option.

Description
- Displacement measuring, vertical balancing machine for measuring and correction of unbalance of disc shaped rotors in 1 plane.
- The work piece is clamped on the measuring spindle with zero-backlash with a 3-jaw chuck.
- The correction rivets are fed by a oscillating conveyor and transferred to the riveting unit.
- After insertion the rivets are calked with help of a hydraulic press.
- Changeover for other rotor types by changing of type specific interchange parts.

Advantages
- Integration in production line.
- Fully automatic operation.
- Easy and unproblematic changeover with interchange parts.

All information without obligation, subject to change without notice.
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Technical Data

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<thead>
<tr>
<th></th>
<th>CVW11-N1</th>
<th>CVW11-N2</th>
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<tbody>
<tr>
<td><strong>Rotor</strong></td>
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<tr>
<td>Weight, max.</td>
<td>kg</td>
<td>10</td>
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<td>Outer diameter, max.</td>
<td>mm</td>
<td>330</td>
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| **Machine**        |          |          |
| Width x Depth x Height | mm     | 1950 x 2100 x 2200 | 2850 x 2200 x 2200 |
| Balancing speed, approx.| min⁻¹ | 600       | 600       |
| Tolerance¹)        | gmm      | < 80      | < 80      |
| Cycle time²), approx.| s      | 30        | 20        |
| Stations            | 1        | 2         |

¹) rotor specific
²) with insertion of correction rivets and control run

Options

- Second moveable measuring station
- Second oscillating conveyor for different rivet sizes
- Automatic calibration unit (Hofmann patented)
- Loading gantry
- Loading robot
- Marking unit
- Test rotor with calibration weights
- Printer
- Interface to hostcomputer

Scope of Supply

- Unbalance measuring system with 3-jaw chuck
- Rivet insertion and calking unit
- Feeding of correction rivet by oscillating conveyor
- Measuring electronic with keyboard and monitor
- Machine control unit
- Safety unit class B accord. ISO 7475
- Hydraulic aggregate