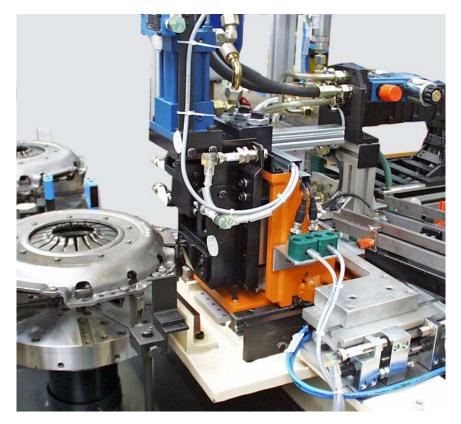


Balancing Machine for Clutch Pressure Plates



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 zerobacklash 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.



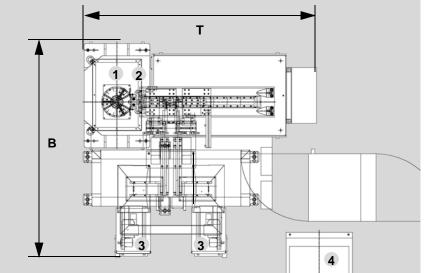


Rivets with different weights, inserted and calked at the top



Rivet conveyors All information without obligation, subject to change without notice





Horn cheek mandrel

1 Measuring of unbalance, 2 Rivet setting unit, 3 Swivelling conveyor, 4 Hydraulic

Marking unit

Technical Data

		CVW11-N1	CVW11-N2	
Rotor				
Weight, max.	kg	10	10	
Outer diameter, max.	mm	330	330	
Machine				
Width x Depth x Height	mm	1950 x 2100 x 2200	2850 x 2200 x 2200	
Balancing speed, approx.	min ⁻¹	600	600	
Tolerance ¹⁾	gmm	< 80	< 80	
Cycle time ²⁾ , 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