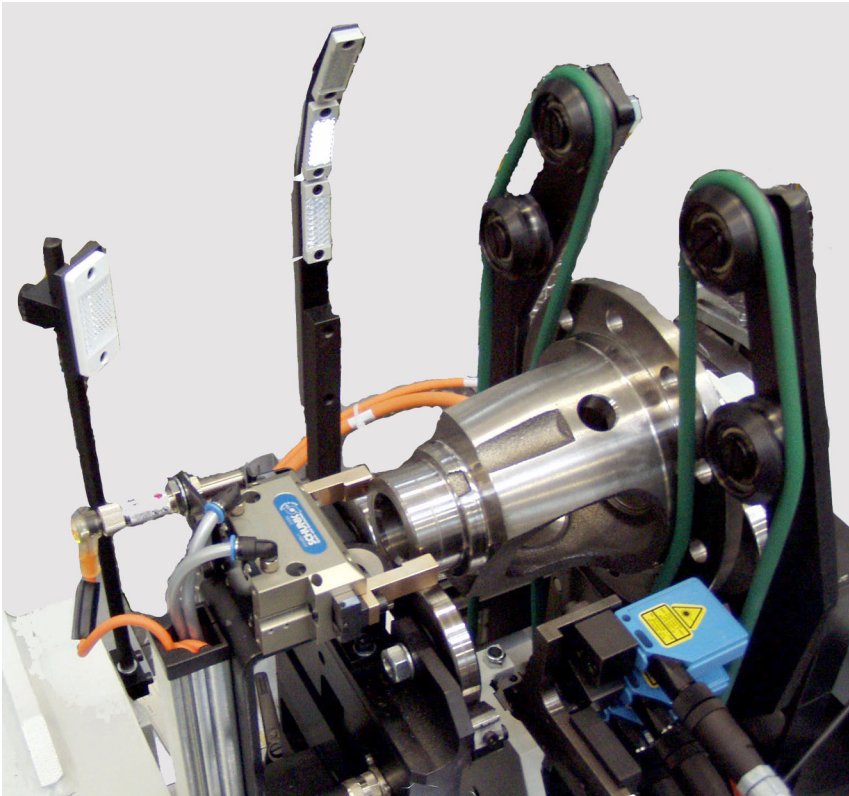


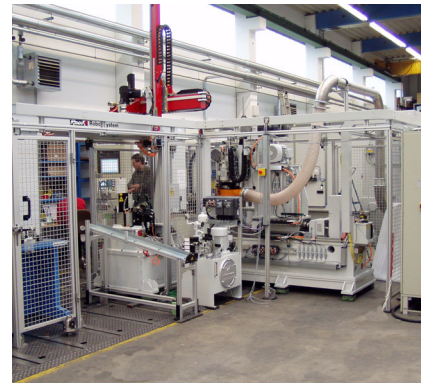
Balancing Machine for Differential Cases

DHK11-F



Advantages

- Fully automatic processing.
- Simple repositioning of rollers for high flexibility.
- Easy operation.
- Universal application.
- Rugged design.
- High precision.
- Permanent calibration setting.

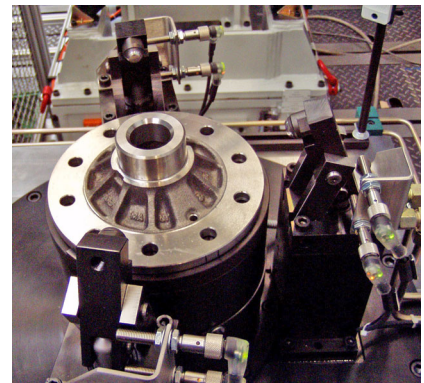


Applications

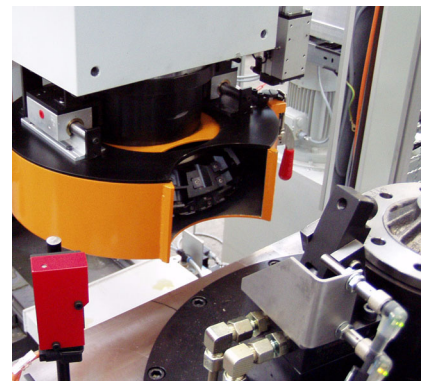
- Balancing of car and truck differential cases in high volume production in the automotive and supplier industries.
- Unbalance correction, depending on specification by:
 - drilling on the flange,
 - milling on the flange and/or milling on the cage for two plane compensation.
- Available configurations:
 - Single machine with manual loading (audit),
 - Combination with correction station and automatic loading.
- Types of loading:
 - Manual,
 - Automated with gantry loader,
 - Automated with robot.

Description

- Horizontal hard-bearing balancing machine for measuring and correcting unbalance in one or two planes.
- Workpieces supported on horizontally arranged rollers (maximum flexibility, highest precision).
- Measuring system with overslung or tangential belt drive, depending on the design.
- Unbalance correction with additional correction unit.
- Optional swarf removal by suction unit and workpiece specific exhaust hood.

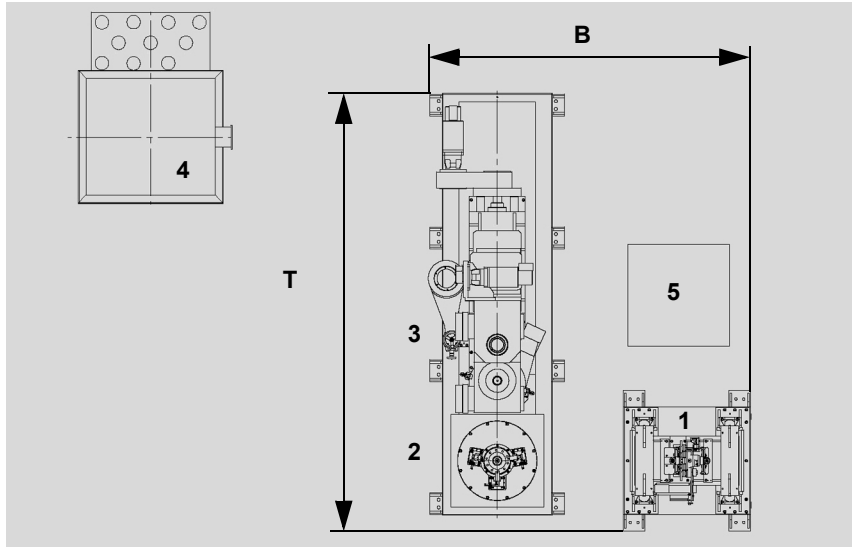


Clamping and indexing station



Milling on the flange and on the cage

All information without obligation, subject to change without notice



Gang-milling cutter

1 Measuring station, 2 Clamping station, 3 Milling unit, 4 Swarf extractor, 5

Technical data

		DHK11-FM2	DHK11-FL2	DHK11-FL4
Rotor				
Weight, max.	kg	15	15	15
Total length, max.	mm	230	230	230
Outside dia. on Flange, max.	mm	145	145	145
Machine				
Width x depth x height	mm	2300 x 3000 x 2800	2300 x 3000 x 4000	3500 x 4200 x 4000
Balancing speed, approx.	min ⁻¹	600	600	600
Measuring uncertainty	gmm	< 30	< 30	< 30
Cycle time (at 100 % audit), approx.	sec.	180	60	30
Stations		2	2	4

¹⁾depending on workpiece geometry

Options

- Loading gantry (L)
- Loading robot (R)
- 2 axis milling unit for 2 plane correction
- Marker unit
- Interfacing with host computer

Scope of supply

- Horizontal measuring station with belt drive
- Milling unit
- Clamping and indexing station
- Swarf extraction unit
- Measuring unit with keyboard and monitor
- Machine control
- Protective equipment Class B as per ISO 7475
- Hydraulic unit