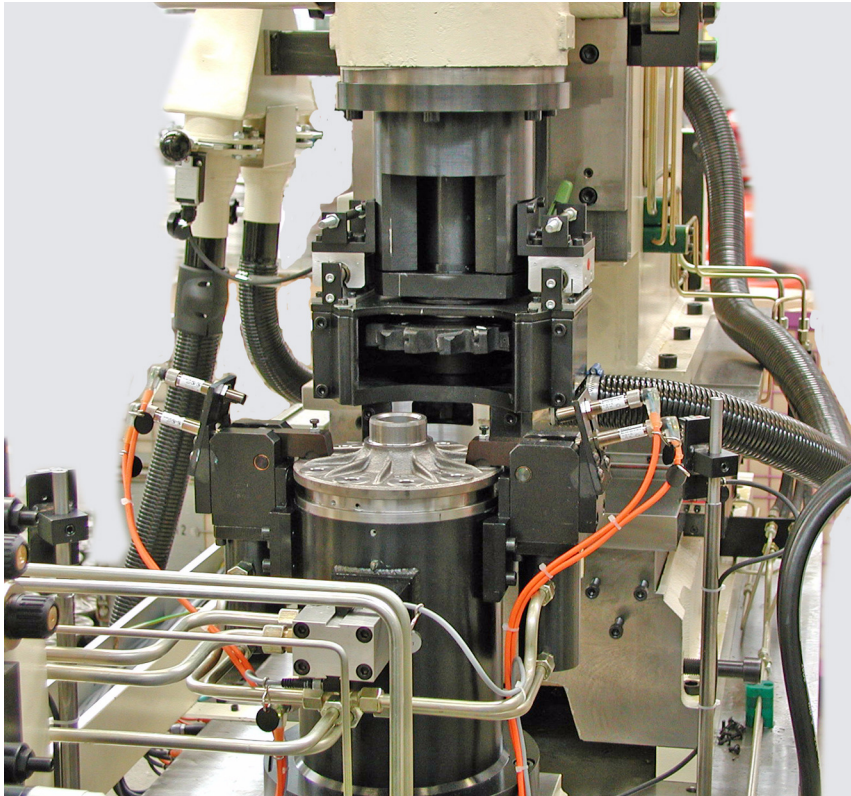


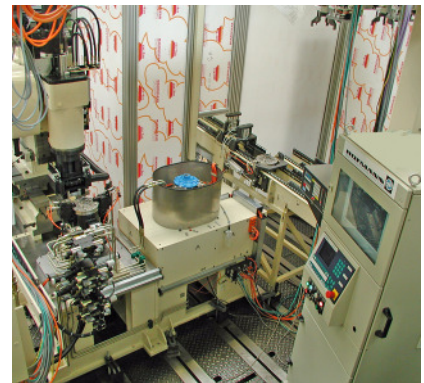
Balancing Machine for Differential Cases

DVK11-F



Advantages

- Fully automatic processing.
- Easy operation.
- Compact and rugged design.
- High precision.
- Permanent calibration.



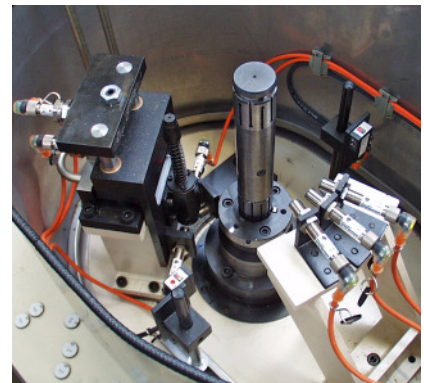
General view

Applications

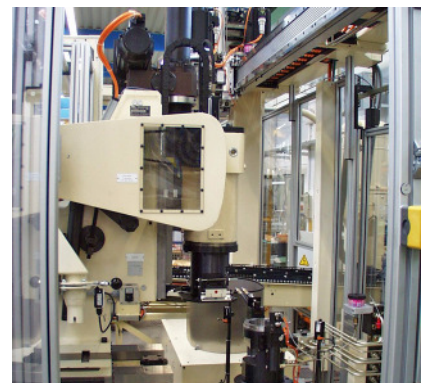
- Balancing of car and truck differential housings (diff. cases) in high volume production in the automotive (O.E.M.) and Tier 1 supplier industries.
- Unbalance correction, depending on specification by:
 - drilling on the flange,
 - milling on the flange and/or milling on the cage for two plane compensation.
- 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,
 - Interface with Pick-And-Place or other type rotary transport.

Description

- Vertical hard-bearing balancing machine for measuring and correcting unbalance in one or two planes.
- The workpiece is centered and clamped in the axial center bore using an expanding sleeve mandrel.
- Unbalance correction with additional correction unit.
- Optional swarf removal by suction unit and workpiece specific exhaust hood.

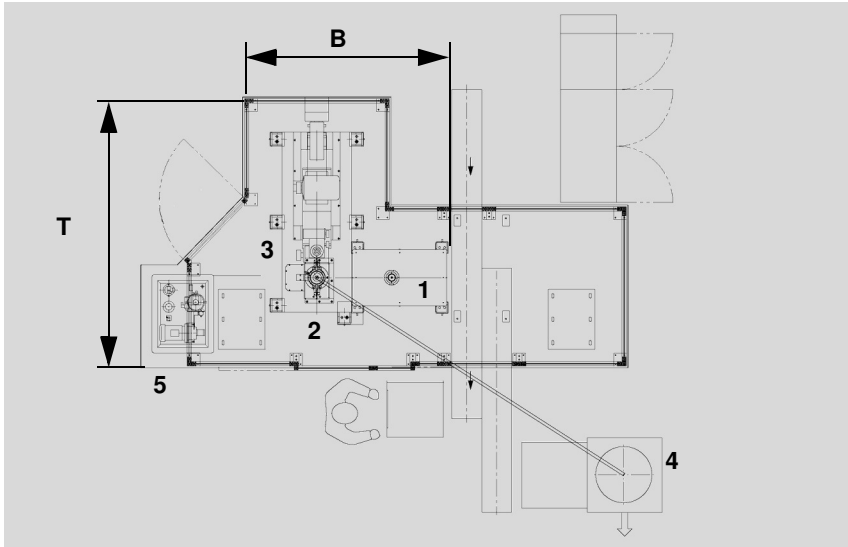


Measuring station



Milling unit

All information is subject to change without notice



Gantry loader

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

Technical data

		DVK11-FL2	DVK11-FL3
Rotor			
Weight, max.	kg	15	15
Total length, max.	mm	230	230
Outer dia. on flange, max.	mm	145	145
Machine			
Width x depth x height	mm	2200 x 2900 x 4000	4900 x 2600 x 3200
Balancing speed, approx.	rpm	600	600
Measuring accuracy	gmm	< 30	< 30
Cycle time (at 100 % audit), approx.	sec.	60	34
Stations		2	3

1) Depending on concentricity of axial center bore on both bearing journals

Options

- Loading gantry (L)
- Loading robot (R)
- Rotary lifting transport (H)
- 2 axis milling unit for 2 plane correction
- Marker unit
- Interface with host computer

Scope of supply

- Vertical measuring station with expanding sleeve mandrel
- Milling unit
- Clamping and indexing station
- Swarf exhaust unit
- Measuring unit with keyboard and monitor
- Machine control
- Safety enclosure: class B as per ISO 7475
- Hydraulic unit