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Universal Balancing Machine

UVK

Advantages

- No test runs, permanent calibration.
- Universal application.
- Easy operation.
- Display of unbalance or of correction after first measuring run.
- Very rigid design.
- High service reliability.
- Wear-free measuring system.
- Three-phase drive with frequency inverter
- Adjusting acceleration ramp.
- Variable control cabinet position.
- Modular design.
- Prepared for later on mounting of correction units.
- Special correction units possible.

Applications

- Balancing of any disc-shaped rotors without their own shaft journal.
- Application in small series production in the automotive and supplier industries of
  - Flywheels
  - Clutches
  - Turbine wheels
  - Gear box parts, etc.
- Customized unbalance correction in polar or component format by
  - axial or radial drilling
  - welding of strips
  - pressing of weights or rivets.
- Loading:
  - Manual,
  - Automated with gantry loader,
  - Automated with robot,
  - With lift swivel transport.

Description

- Vertical hard-bearing balancing machine for measuring and correcting unbalance in one or two planes with manual, semi-automatic or fully automatic operation.
- The workpiece is clamped and centered using a holder with zero-backlash.
- If required unbalance correction can be performed directly on the machine.
- Compensation by vertical drilling can be performed manually using a floating drill unit.

UVK 12.1 with drilling unit

UVK 62.1

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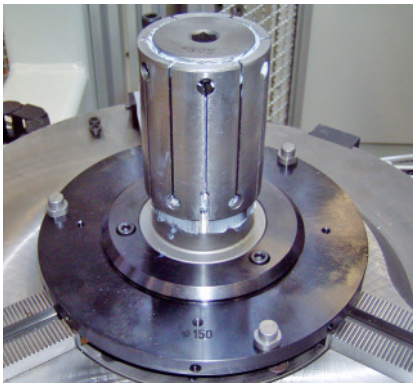
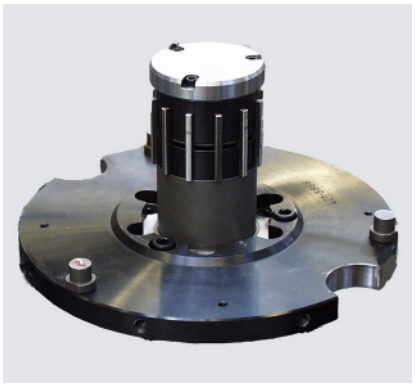
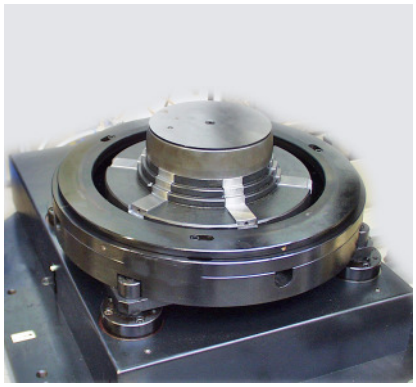


Expanding sleeve mandrel



Lamella mandrel



Stepped segment mandrel

Technical data

		UVK4	UVK31	UVK12	UVK62
Rotor:					
Weight[1)]	kg	4	30	100	600
Diameter, max.[2)]	mm	400	400	500	1400
Height, max.[1), 2)]	mm	100	300	300	350
Machine:					
Balancing speed	rpm	400 - 1200	250 - 1000	250 - 1000	200 - 500
Min. ach. residual eccentricity	µm	5	5	5	5

[1)] With holder, [2)] Other dimensions on request, [3)] Machine with vertical drilling unit

Options

- Mandrel
- Pneumatic unclamping mechanism for power-operated chuck systems
- Vertical / horizontal drilling uni
- Other correction units on requestt
- Swarf exhaust unit
- Automated loading:
- Marker system
- Test rotor with calibration weight
- Correction angle indexing aid PosiQuick©
- Automatic indexing
- Statistics software
- Interfacing with master computer
- Report printer
- Label printer

Scope of supply

- Rigid machine housing
- Measuring system
- Hinged guard class C as per ISO 7475
- Sensing device
- Machine control
- Measuring unit with keyboard and monitor in rolling cabinet
- Balancing software with various balancing algorithms

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