



Precise unbalance measurement also for small, light rotors

Balancing in one or two planes possible

No time-consuming calibration runs through permanent calibration

Compact machine design, small space requirement and simple assembly

PC-controlled measuring unit with guided operator interface and direct unbalance resp. correction display

Vertical Balancing Machines

Series VM 00

Application

Measurement and correction of unbalance in small, light disc-shaped rotors without their own shaft, in one or two planes.

Typical rotors are CD's, small non self driven fans, centrifuges, returning wheels, clutch elements and rotary painting nozzles.

A shorter spindle distance and protective shroud provide faster, safer and more accurate balancing. In manufacturing, research and quality control.

Design

- Force-measuring, vertical balancing machine with permanent calibration and manual operation.
- Designed for table-top placement, suitable for a seated operator. The balancing unit, measuring unit and control cabinet are built into a single housing.
- The spring-mounted precision balancing spindle supports a removable adapter for centering the rotors and is driven by a flange-mounted electric motor. The existing tooling of the previous machine type CBAA can be further used.
- The protective enclosure designed according to DIN 45690 / ISO 7475 is standard.

Operating method

- Manual loading of the balancing unit, centering of the work-piece with an interface adapter and close the protective shroud
- Start the automatic measuring run Accelerate, measure and display the unbalance on the measuring unit, brake. The measured value display is retained after each measuring run.
- Open the protective shroud, unload and, if necessary, correct the unbalance.
- Check the result of correction (achievement of tolerance is displayed by the measuring unit) and unload the balancing unit

Measuring unit

CAB 700 is a compact basic instrument for all standard balancing tasks. Simple, menu-driven operation, clear display and high accuracy allow perfect balancing of rotors by less experienced operators.

CAB 803: Our professional measuring unit CAB 803 works with the Windows 2000 operating system. It is equipped with a high-contrast touch screen TFT display and can provide an easy to read vector display of the unbalance.

Data at a glance

| | | |
|-------------------------|----------------------|-----------------|
| Rotor | | |
| Weight, max | [kg] | 1,0 |
| Diameter, max | [mm] | 150 |
| Machine | | |
| Size, WxDxH | [mm] | 700 x 900 x 900 |
| Balancing speed | [min ⁻¹] | 300 - 3000 |
| Measurement uncertainty | [gmm] | 0,05 - 0,075 |
| Drive power | [kW] | 0,1 |
| Power requirement | | 240 V, 50 Hz |



CAB 700



CAB 803



Balancing and Diagnosetic Systems

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