



**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**

**Drilling correction unit, including swarf extractor system (option) (new)**

---

## Vertical Balancing Machines

### Series HV

#### Application

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

Typical rotors are pulleys, fans, brake discs, clutches e other shaped disc rotors.

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 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.



machine with integrated correction drilling unit

## Data at a glance

Machine type		HV2-10	HV2-30	HV2-100
Rotor diameter, max	[mm]	400	850	850
including cover protection	[mm]	400	600	600
including correction unit	[mm]	400	600	600
Minimal distance between planes	[mm]	30	30	40
Balancing speed	[rpm]	1200	800	530
Measurement uncertainty	[gmm]	2 ... 6	7 ... 50	20 ... 120
Rotor weight (including tooling)	[kg]	10	30	100
Drive power	[kW]	0,55	1,5	2,2
Power requirement			240 V, 50 Hz	



### Balancing and Diagnostic Systems

**SCHENCK RoTec GmbH**  
Landwehrstraße 55  
D-64293 Darmstadt

Tel.: +49 (0) 61 51 - 32 23 11  
Fax: +49 (0) 61 51 - 32 23 15  
eMail: rotec@schenck.net

Make use of our worldwide distribution network.  
Please see us at <http://www.schenck-rotec.com>