

A New Design to Simplify Your Balancing Activities

Simple operation, accurate unbalance measurement, powerful correction software

Performance is not a matter of size and innovative technology does not necessarily manifest itself in complex structures. A variety of new features in the CAB 700 enable this microprocessor based measuring instrument to be universally applicable for horizontal as well as vertical axis balancing machines. Its compact design combines the qualities that really matter for universal balancing machines: **simple operation, accurate unbalance measurement, powerful correction software.**



Version CAB 700 V is designed especially for the application with 2-plane vertical balancing machines. For clear identification of the data it is arranged in two levels on the screen.



User friendly dialogue

The unit is distinguished by a well thought out operating concept with a clear focus on maximum user friendliness. In the CAB 700, our field proven operating philosophy has been further improved, based on longtime experience and expertise in all aspects of balancing. The operating procedure comprises only a few steps and is supported by clear instructions, in your own language, and easy to understand dialogue, prompting you smoothly along the shortest path to the desired end, the perfectly balanced rotor.

Switch on and start balancing

Thanks to the new unit's underlying concept of simplicity and strict orientation to the requirements of balancing, you will learn to use it and acquire complete mastery over it within a minimum of time. The system always provides a complete overview of your balancing procedure with only a small number of screen displays. All important functions of the CAB 700 can be selected directly with the help of hotkeys, while the cursor keys enable instant and dependable activation of any of the available menu items. Should the same rotor be balanced on your machine a second time, just load the data set stored before and you may start balancing immediately.

Display in case of unbalance correction by means of drilling. The current display of drill depth is the operator's aid for precise working.

Balancing made simple with CAB 700, irrespective of whether the rotor is small or large.



Clear directions for measuring and correcting unbalance

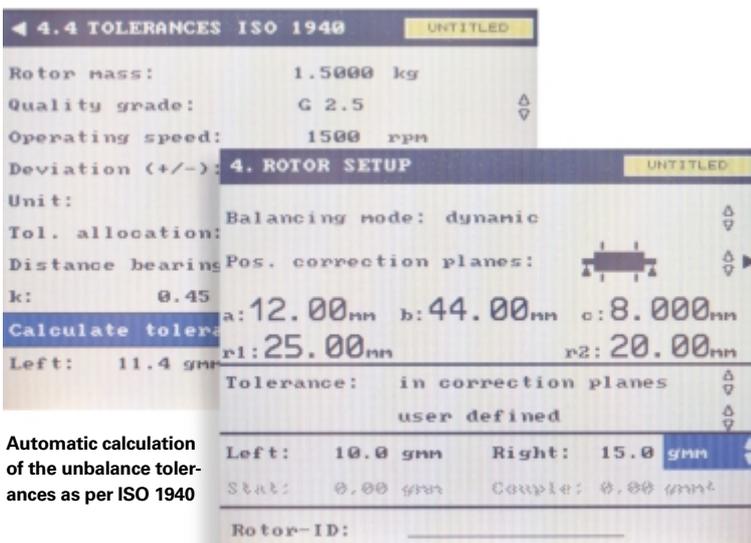
The new instrumentation offers you a choice for the most suitable mode of display. Either, the classic method of indicating unbalance with its amount and angular position shown as a basis for evaluating where you stand with regard to the required tolerance or, a display giving directions for mass correction. In the latter mode, the instrument displays information related to the desired correction mode on the exact depth of mass removal as well as the pertinent angular position. The system supports all common correction methods such as drilling, milling, grinding or addition of weights. It goes without saying that the CAB 700 calculates the balancing tolerances in compliance with ISO 1940. In this way balancing will run smoothly.

State of the art measuring technology

The CAB 700 makes for fast and reliable balancing. Fully digital high resolution signal processing, simple and precise calibration and a large unbalance measuring range give you the certainty of highly accurate balancing, even when you deal with out of the ordinary rotors. Due to its high level of sensitivity and efficient noise signal suppression, the CAB 700 is able to recognize even smallest unbalance signals, thus enabling a very high degree of balance quality. The basic specifications of up to 100 different rotor types can be stored: The relevant data needs to be entered only once and can be recalled whenever required. This ensures quick and error free performance, especially where different rotor types are frequently being balanced.

Just in case ...

Continuous self diagnosis of the measuring unit together with our service support organisation will keep you safe from production breakdown and assure the quality of your products. Extensive test routines, plausibility checks and comprehensive fault or error messages afford you a high degree of safety and dependability. But just in case failure were to occur, our rapid exchange service for spare parts is on stand by, ready to restore your balancing machine to perfect operating condition with the minimum of delay.



Automatic calculation of the unbalance tolerances as per ISO 1940

Set-up of the measuring unit for a new rotor type by means of clear dialog screens.



**Horizontal and vertical:
The right solution for every
type of balancing machine**

Technical data:

Application:	Universal for horizontal or vertical balancing machines, hard-bearing and soft-bearing
Basic system:	<p>Modular and easy-maintenance design, with measuring, evaluation and display units. Data editing and calculation by means of Schenck Computer Aided Balancing software.</p> <ul style="list-style-type: none"> ■ Measuring of the dynamic unbalance in 2 planes, of the static unbalance and of the unbalance moment ■ Automatic comparison of tolerance ■ Display in polar coordinates ■ Display in evenly or unevenly distributed components ■ Averaging of measured values versus time, rotor-type related ■ Single compensation, key compensation, index balancing ■ Balancing protocol (series or single) ■ Drive control for automatic measuring procedure ■ Automatic self-test
Dialogue languages:	English, German, French, Italian, Spanish, Swedish, Dutch (other languages upon request)
Display:	graphic compatible color LCD, resolution 320 x 240 pixel for clear graphical representation and smooth reading
Keyboard:	Sturdy keyboard for direct access to all important operational functions
Measuring procedure:	Powerful, fully digital unbalance signal processing for utmost measuring accuracy
Unbalance measuring range:	1:1.000.000
Speed range:	120 bis 10.000 min ⁻¹
Data storage:	Up to 100 rotor data sets
Interfaces:	RS 232 C for Printer, RS 232 C for Computer, CAN bus (machine controls), Profibus and Interbus S (optional)
Options:	<ul style="list-style-type: none"> ■ Printer ■ Angular indexing on the LCD display ■ Calculation of tolerance according to DIN/ISO 1940 ■ Drive system control for automatic indexing ■ Rotor specific calibration ■ CAB connect ■ SPC statistic software ■ Extensive correction software e. g. for drilling, milling ■ Calculating correction in number or length of specified material ■ Additional operating unit located up to 10 m away
Power supply:	115 – 230 V, 50 – 60 Hz (automatic adjustment)
Weight:	ca. 5 kg



SCHENCK

**Balancing- and
Diagnostic Systems**

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