

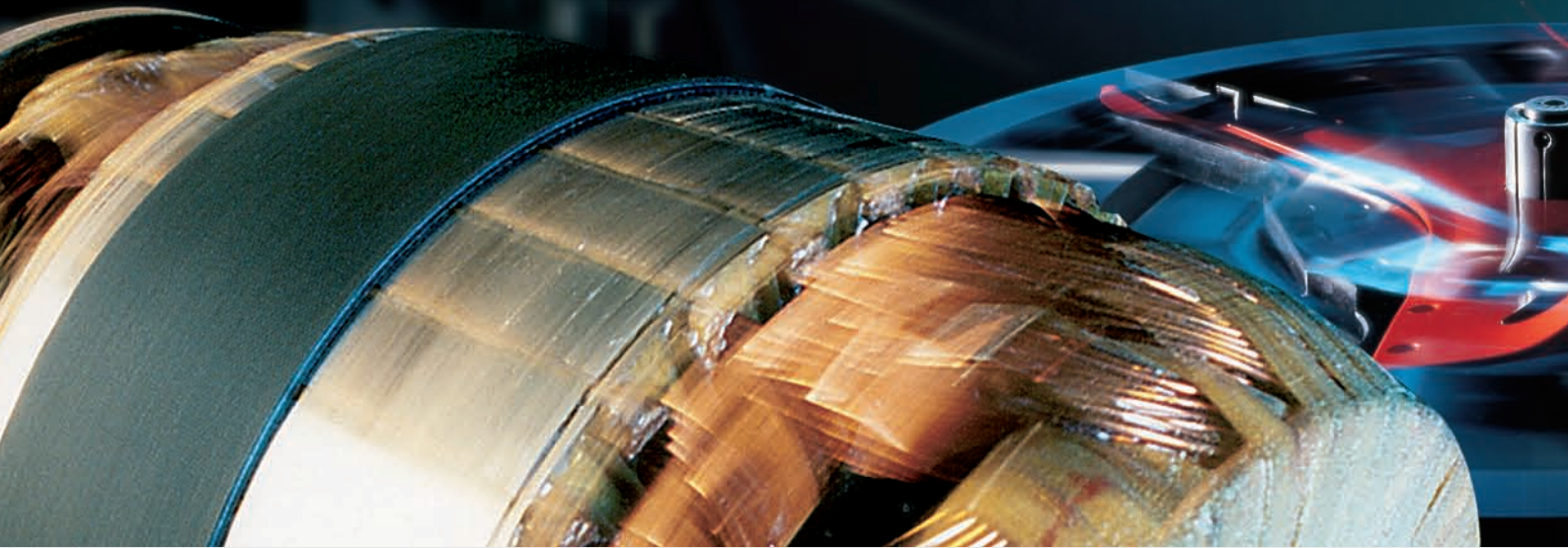
CAB 920 – The measuring system for peak balancing performance



## CAB 920 – The perfect combination of simplicity and performance

The new CAB 920 is the latest development of the legendary Computer Aided Balancing (CAB) measuring systems from Schenck. By combining the most powerful instrumentation features available with an unsurpassed level of simplicity, the CAB 920 creates a new balancing standard for any application. You'll find it easy to significantly improve your balancing results whether performing simple balancing tasks or the most complex balancing procedures.

**Simple to use – the key to more security**



### Convenient touchscreen control

All communications between you and the measuring system take place via the touch screen monitor. You control all functions with your index finger and in this way communicate with the balancing machine. Values and texts are entered in dialog fields with the help of interactive direct input windows and no keyboard or mouse is required.

### Clear, easily understood dialogs

We place special value in clear dialogs in order to avoid misinterpretations or incorrect input. Even when setting up a rotor for the first time you will see how easy it is to

work with the CAB 920. This is made possible by clear menu structures based on the work sequence and a hierarchical layout of the functions.

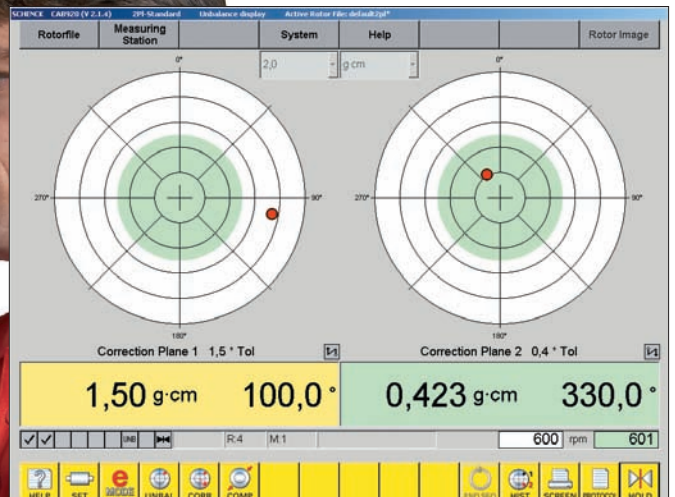
### Fast unbalance detection

After the measuring run it is your aim to quickly and reliably assess the rotor. The unbalance visualisation with vector displays has proven ideal for this. Together with the numerical displays, you can detect the precise location and size of the unbalance at a glance.

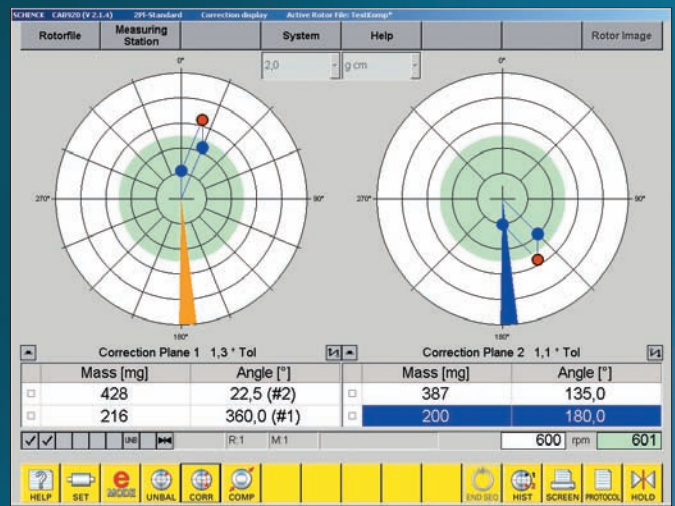
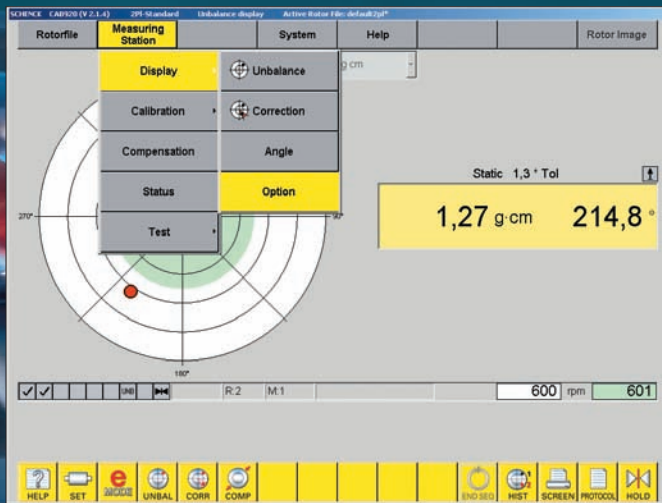
A clear user dialog makes entering a new rotor type child's play in the eMode.



Clear vectorial and numerical display of the unbalance with coloured marking when the tolerance is reached.



The display menu in your own language also makes it easier for operators to quickly and easily perform tasks.



All information is clearly displayed: e.g. Plane 1 in components, plane 2 polar and veering in display.

### eMode – The key to easy balancing

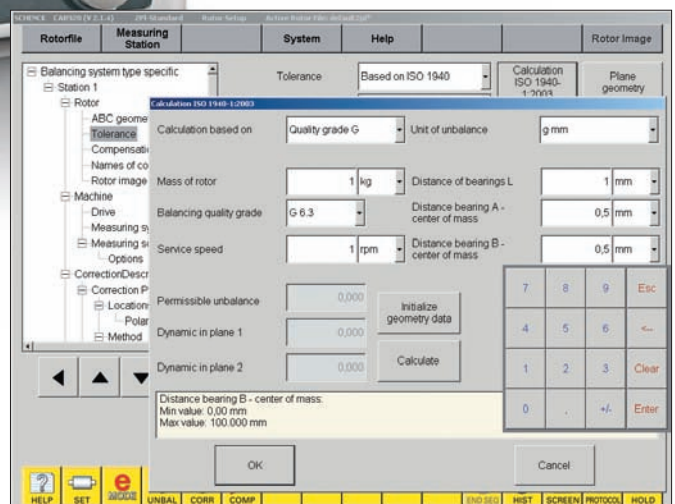
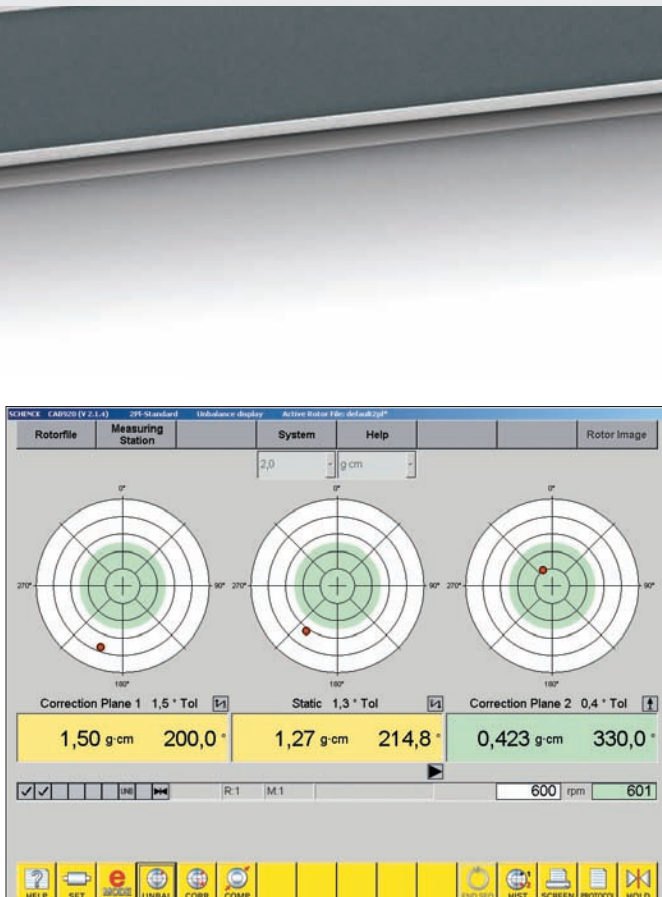
eMode simplifies the controls of the balancing machine to two sides of dialog: Input of the rotor data and the results module with balancing instruction. Additional functions like automatic determination of the balance speed or calculation of the balance tolerances to ISO 1940 makes balancing easy with the CAB 920. All standard balancing methods, e.g. drilling, milling or attaching weights are supported.

### Individual assignment of the function keys

Some of the function keys can be individually assigned. You can therefore directly call up frequently used functions and achieve a perfectly balanced rotor even faster.

### Balancing protocol with integration of graphic elements

With the balancing protocol you can document the balancing of each rotor in detail and have an overview of the stored type and calibration data. You can individually change it to your own requirements and integrate graphic elements, such as your company logo or even photos of the balanced rotor.

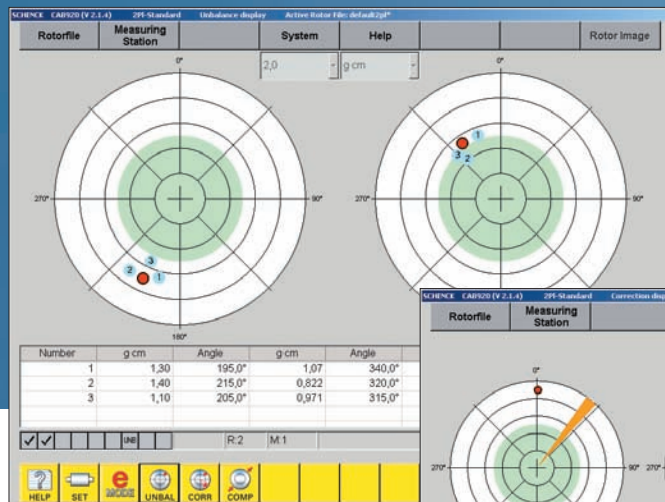


Calculating the unbalance tolerances to the current DIN ISO 1940

Different tolerance specifications for static and dynamic unbalance can be displayed on one screen.

## Log book function

All measurement sequences for a rotor are saved in a central database so that if "problem cases" occur you have access to a history of preceding steps, which often points out the solution.



By marking the measured value and averaging over several runs, it is possible to correct the unbalance behaviour of unstable rotors.

## Networking ensures information flow

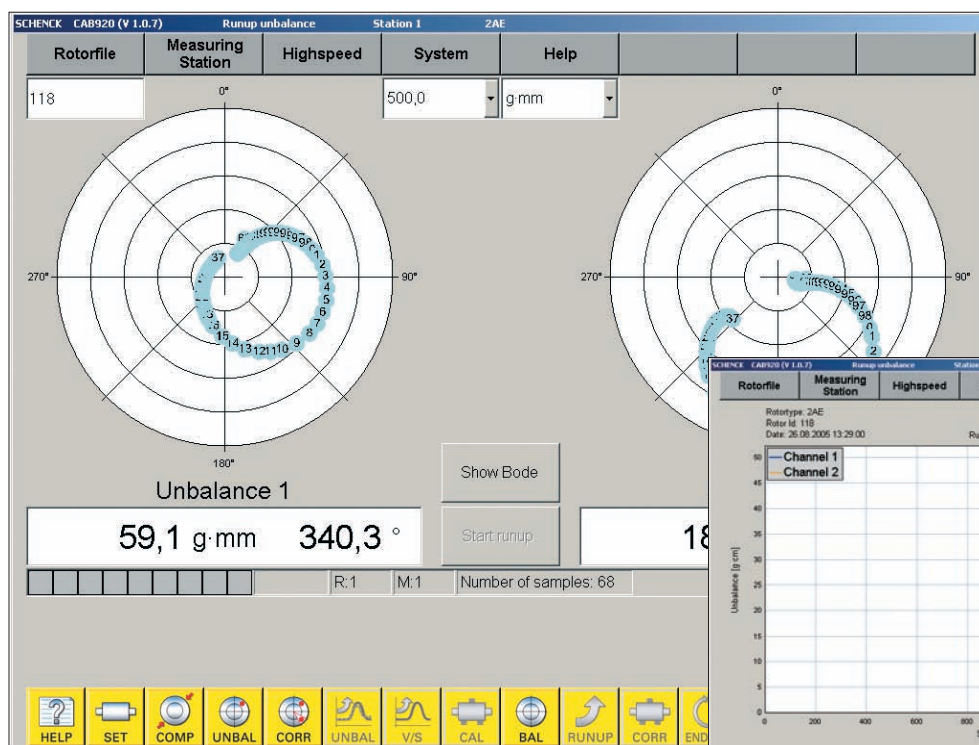
CAB 920 can be easily integrated in your company network. You can exchange the balancing results electronically with colleagues in the quality assurance department and can then further process these with standard office programs. It also enables online remote diagnosis with extensive service functions.

## Upgrade old to new

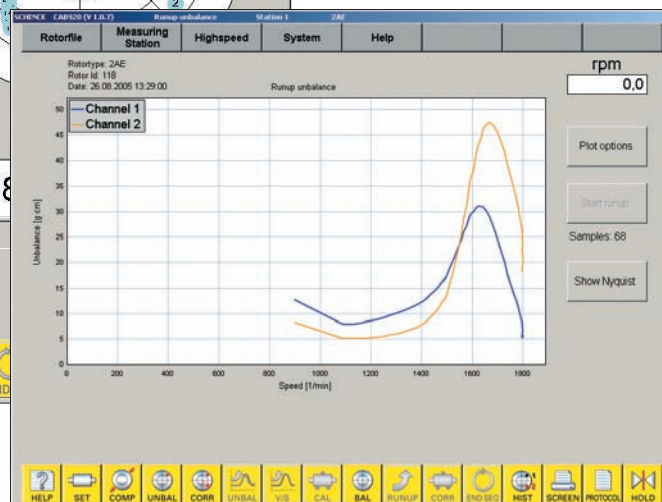
The CAB 920 is ideally suited for modernising older horizontal and vertical balancing machines – even those of external makes. So that you upgrade your existing balancing machine with state-of-the-art measuring technology.



The operator can even display the angle and amount of unbalance when balancing elastic rotors in three planes.



The measured values for an elastic rotor can be saved for both planes during the startup and displayed as a Nyquist diagram.



The unbalance effect of an elastic rotor can be measured during the startup and displayed versus speed in a Bode diagram.

## Technical specifications

Use:	Universal for horizontal or vertical balancing machines, hard- or soft bearing
Basic system:	Modular and service friendly design with measurement, analysis and display units. Data processing and calculation via integrated industrial PC with Schenck Computer Aided Balancing software
Function:	<ul style="list-style-type: none"><li>- Vector and numeric display</li><li>- Measure dynamic unbalance in 2 planes, the static unbalance and the couple unbalance</li><li>- Automatic tolerance comparison</li><li>- Display of polar or in equally / non-equally distributed components</li><li>- Averaging of the measured values over time, rotor type related</li><li>- Tolerance calculation according to ISO 1940</li><li>- Balancing protocol in PDF format</li><li>- Conversion to other setup data</li><li>- Single compensation, key compensation, index balancing</li><li>- Drive control for automatic measuring cycle</li><li>- Definition and storing of type-related balancing procedures for simplification of complex work sequences</li><li>- Context-sensitive help function, automatic self-test</li><li>- Monitoring measuring signals</li></ul>
Display:	Active 15" TFT colour display with high luminosity
Input:	Context dependent assignment of function keys, touchscreen
Measuring methods:	Efficient, fully digital measured data processing for highest measurement accuracy
Unbalance measuring range:	1 : 2,000,000
Speed range:	100 to 5,000 rpm, optional up to 100,000 rpm
Data storage:	Dependent on the size of the storage medium, practically unlimited
Interfaces:	<ul style="list-style-type: none"><li>- USB for peripherals</li><li>- Frontside USB for data export to storage media, etc.</li><li>- Network interface for data backup, ethernet</li></ul>
Options:	<ul style="list-style-type: none"><li>- Protocol printer</li><li>- Marking measured values, averaging over runs</li><li>- Angle indexing indicator</li><li>- Extensive balancing software e.g. for drilling, milling, setting weights</li><li>- Overlapping cycle</li><li>- Rotor specific calibration</li><li>- Alternating operation of 2 balancing machines with one measuring unit</li><li>- Measured value recording and storage during startup</li><li>- Vibration velocity measuring mode with single and double (2f) reference frequency</li><li>- Bode- and Nyquist-diagram</li><li>- Additional measurement channels for runout measurement, etc.</li><li>- Statistical software</li><li>- Industry-specific solutions for<ul style="list-style-type: none"><li>- the roller industry: Laser scanning, special report, 3-plane display, etc.</li><li>- Propshaft industry: up to 4 planes in parallel, permanent or rotor-specific calibration, compensation of reactive forces</li><li>- Aviation industry: Averaging over runs, weight distribution, nesting</li></ul></li></ul>



Balancing and  
Diagnostic Systems

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