



LUDECA



BETA VIB
WHY SETTLE FOR LESS



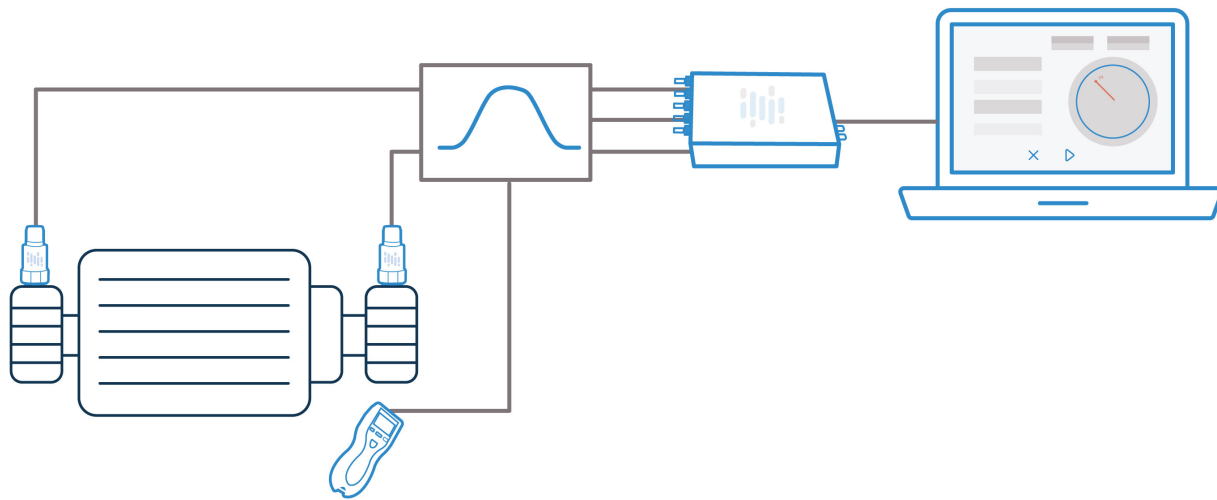
VIBWORKS BALANCER

Precision Balancing Made Simple

Vibworks Šzššmj žpřBalancer

VIBWORKS BALANCER

The VibWorks Balancer is an intuitive and efficient add-on module to the BETAVIB Suite, designed for seamless integration and ease of use. Operating on the same hardware platform as the VibWorks Collector and Analyzer, it allows users to perform balancing tasks quickly and efficiently through a simple yet powerful interface. With up to four physical channels, it accelerates balancing operations by enabling simultaneous data acquisition, resulting in faster and more accurate outcomes. Real-time phase stability monitoring is displayed on dynamic polar graphs, ensuring optimal balancing conditions throughout the process. Additionally, the VibWorks Balancer saves shaft sensitivity coefficients, making future balancing tasks simpler by eliminating the need for trial runs, allowing for a single shot measurement for subsequent operations.



FEATURES

MERGE WEIGHTS



Easily merge weights where needed to minimize the number of weights on a rotor, with an automated process and an intuitive user interface.

REPORTS



Customizable reports with your company logo, technician and customer contact details, and machine images, all in a ready-to-print layout.

USER INTERFACE



Supports up to 2 graphical modes:

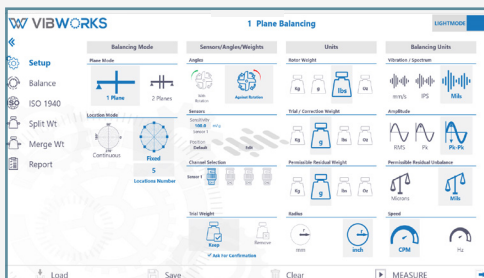
Dark mode for a low light environment (for more comfort) & a Light Mode for a High light environment (For more visibility)

HIGH-PRECISION BALANCING

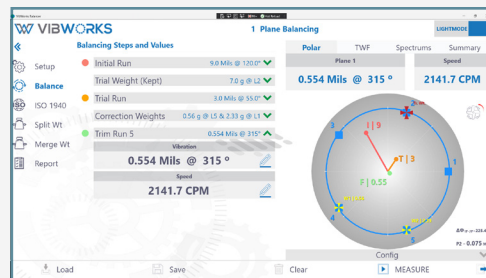


Achieve high-precision, one-shot balancing without trim runs. Keep or remove trial weights while balancing, with all steps and results highlighted in real time for easy access.

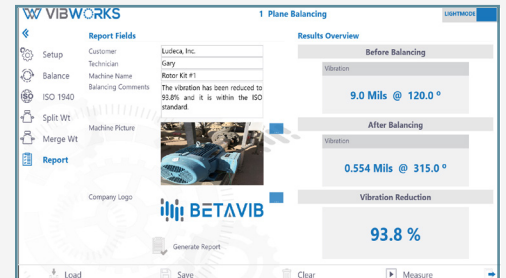
The VibWorks Balancer is particularly effective in handling low-speed machinery balancing by utilizing proximity probes, which offer better precision compared to traditional accelerometers. Designed to comply with ISO 1940 standards, the system ensures normalized balancing, providing automatic suggestions for trial weights, balancing grades, and generating detailed reports in universal formats like PDF, DOC, and HTML. The real-time phase stability indication, supported by high-precision cross-correlation algorithms, guarantees quick, precise, and reliable balancing results.



SETUP



BALANCE



REPORT

SOFTWARE DETAILS

SETUP

Easily select units with a click. Achieve balance correction in one or two planes, with graphical positioning of tachometers and sensors.

BALANCE

Perform high-precision balancing in a single shot without trim runs. View real-time results with live vectors for vibration and phase values.

ISO 1940

Built-in ISO 1940 calculator ensures compliance by determining allowable vibration for different machines.

SPLIT WEIGHTS

Automatic distribution or grouping of weights via a simple graphical interface

MERGE WEIGHTS

Automatically merge weights to reduce rotor weight with an intuitive interface.

REPORT

Reports are generated with a single click and are fully customizable with your logo, contact details, and machine images, ready for printing.



A key feature of the VibWorks Balancer is its ability to save shaft sensitivity coefficients for future use, eliminating the need for trial runs during subsequent balancing procedures. The system provides normalized balancing according to ISO 1940 standards, offering automatic suggestions for trial weights, balancing grades, and comprehensive reports in multiple formats, such as PDF, DOC, and HTML. The inclusion of proximity probes enhances balancing precision for low-speed machinery by using displacement sensors. The advanced cross-correlation algorithms used for phase stability ensure that balancing conditions are optimal for quick and precise results, helping to mitigate the risks of unbalanced machinery, such as excessive wear, increased costs, and safety hazards.

SPECIFICATIONS

LOCATION TECHNOLOGY	SPEED	SHAFT PARAMETERS	RESIDUAL UNBALANCE	SPLIT WEIGHTS	A/D CONVERTER	FREQUENCY UNITS
Continuous angle or fixed locations	120 RPM to 300 000 RPM	Sensitivity Calculation and Storage	According to ISO Weight calculation with trial	3 to 48 Points	24 Bits	Hz, CPM
ISO STANDARD	SAMPLING FREQUENCY	INDICATION	BALANCING REPORT	PHASE STABILITY	PLANE PHASE DIFFERENCE	
Embedded ISO 1940/2140	51.2 Khz (Optional 102.4 Khz)	Real Time Polar Diagram with Vector Indication	Generated automatically with Email sending	Visual Realtime indication of phase and Amplitude stability Directly on the polar chart	Realtime display of the Phase difference between P1 and P2	