

# Minibalancer MI 2500

Measuring Vibrations, Balancing, Identify Resonance Frequencies



## Advantages

- ✓ **Simple** operator guidance with high-resolution touchscreen
- ✓ **Measurement data storage function**
- ✓ **Measurement data transfer** to a PC via the USB interface
- ✓ **Vibration analysis**
- ✓ **Create** individual reports using a PC program
- ✓ **Low cost; high performance**

## Applications

- Field balancing in single- or two-plane
- Detect vibrations at bearings and machine housings
- Machine and auxiliary equipment condition assessment
- Vibration Measurement
- Imbalance measurement
- rpm measurement
- Bearing condition measurement
- Identify Resonances

## Description

Vibrations on machines or rotors may cause damage and lead to manufacturing errors. In no time, the compact and easy to operate Minibalancer MI 2500 helps you to identify vibrations, resonances and correct the unbalance.

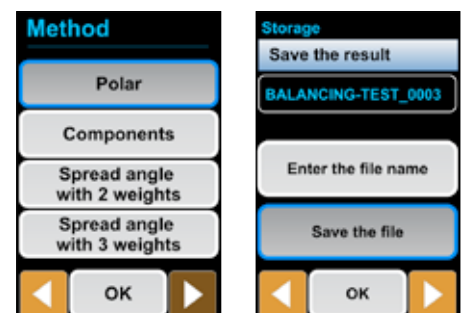
A must have for service, maintenance and development!

The Minibalancer MI 2500 is a two-plane vibration measuring and field balancing device. Its operation is self-explanatory through a high-resolution touchscreen. The unbalance correction is carried out using a polar graph, component or the spread angle method. The overall vibration measurement is carried out in accordance with DIN ISO 20816-1 and is used to assess the machine condition. The condition of the rolling bearings may be measured using the shock pulse method. The vibration analysis helps to identify resonances that simplifies the balancing process.

The measurement results may be saved in the file manager and recalled directly into the device. Transfer to a PC is possible via USB interface.

The scope of delivery includes a PC program that may be used to easily create customer-specific measurement reports.

*Intuitive operator guidance with high-resolution touchscreen*



## Technical Data

<b>Speed range balancing</b>	1/min	180 - 60,000
<b>Frequency range overall vibration</b>	Hz	10 - 1,000
<b>Frequency range rolling bearing condition</b>	kHz	5 - 50
<b>Display Range</b>	mm/s <sub>eff.</sub> / $\mu$ m <sub>pk</sub>	0 - 1,000
	inch/s <sub>eff.</sub> / mils <sub>pk/pk</sub>	0 - 1,000
	gSP	0 - 1,000
<b>Resolution</b>	mm/s <sub>eff.</sub> / $\mu$ m <sub>pk</sub>	0.01
	inch/s <sub>eff.</sub> / mils <sub>pk/pk</sub>	0.001
	gSP	0.01
<b>Sensitivity vibration transducer</b>	mV/g	100
<b>Speed sensor</b>		optical & laser
<b>Sensor connectors</b>		2 measuring inputs and 1 rotation speed input
<b>Other connectors</b>		1 USB and 1 Power connection
<b>Touchscreen display</b>	Zoll	3,5
<b>Operation time of accumulators</b> (4 x NiMH)	h	> 3.5
<b>Case</b> (Protective rating IP54)	mm	100 x 205 x 35
<b>Weight</b>	kg	0.55
<b>Transport case</b>	mm	440 x 380 x 105

## Scope of supply

- 1 Minibalancer MI 2500
- 1 Power supply / charger
- 2 Vibration transducer HMA 1140, cable length 5 m
- 2 Mounting magnets for vibration transducers
- 1 Reflective tape 0.5 m
- 1 Balancing putty
- 1 Speed sensor A1S30P with magnetic base and connection cable 3 m
- 1 USB cable
- 1 USB stick with PC program and operation manual
- 1 Transport case

## Options

- Vibration analysis
- Measuring the roller bearing condition
- Precision scale for up to 100 gr. or 1,000 gr.
- Prismatic mounting magnet for vibration transducer
- Laser speed sensor



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