

# EasyBalancer EB 3500

## Grinding Wheel Balancing



## Advantages

- ✓ **Specially** designed for field application
- ✓ **Portable**, quickly deployed
- ✓ Measurement **data storage** function
- ✓ Simple operator guidance with **high-resolution** touchscreen
- ✓ Measurement data transfer to a PC via **USB interface**
- ✓ Ability to create **individual reports** using a PC program
- ✓ **Low cost; high performance**

## Applications

- Grinding wheel and spindle field balancing
- Detect vibrations at bearings and machine housings
- Machine and auxiliary equipment condition assessment
- Vibration Measurement
- Unbalance measurement
- RPM measurement
- Roller bearing condition measurement

## Description

Hofmann's vibration measuring and balancing device EasyBalancer EB 3500 is specially designed for balancing grinding wheels and grinding spindles. The spread angle measuring method, integrated into the EB 3500 for one plane balancing, is controlled by a clearly structured operator interface. Unbalance correction using the sliding weight positions are determined automatically.

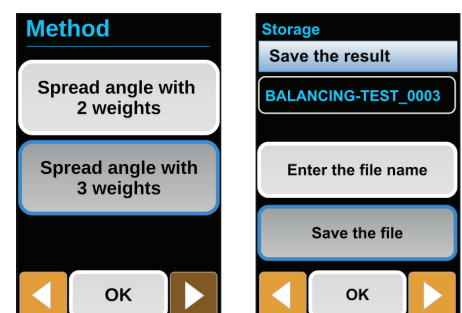
In addition, the EB 3500 offers the measurement of the speed-synchronous unbalance vibration and the overall vibration in the range from 10 Hz to 1 kHz. The overall vibration is the basis for assessing the machine and auxiliary equipment condition in accordance with DIN ISO 20816-1.

The optional roller bearing condition function using the shock pulse method.

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 EB 3500 package includes a PC program that may be used to easily create customer-specific measurement reports.

*Intuitive operator guidance with high-resolution touchscreen*



## Technical Data

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

## Scope of supply

- 1 EasyBalancer EB 3500
- 1 Power supply / charger
- 1 Vibration transducer HMA 1140, cable length 5 m
- 1 Mounting magnet for the vibration transducer
- 1 Reflective tape 0.5 m
- 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

- Measuring the roller bearing condition
- Aluminium scale rings in several sizes
- Prismatic mounting magnet for vibration transducer
- Laser speed sensor



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