

TriBalancer: the three-in-one instrument for grinding machinery.



TriBalancer

Balancing Analyzer •

Vibration Meter • Tachometer

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Feature	Technical Specifications
Min. Vibration Level	0.1mg, 0.005mm/s, 0.03um @1800rpm
Max. Vibration Level	40g (Acceleration)
Phase Accuracy	0.01 Deg
Gain	1~10,000 step by 1, 2, 5, 10 (Auto)
Sensitivity of Accelerometer	5mV/g~1,000mV/g
Operation Temperature	0~75°C / 32~167°F
Display	7-Segment LED
Power Consumption	750mW
Device size	235 x 190 x 55mm / 9.25 x 7.48 x 2.16 inch
Power Supply	Universal (100~240 VAC, 50/60Hz) or Battery
Vibration Meter	Yes
Vibration Display Unit	Display μm (peak to peak)
Vibration Measurement Range	0.1~199.9 μm @100mV/g
Vibration Filter	10~1K Hz Band Pass
Accuracy of Vibration Level	<2%
Bias Check of Accelerometer	Short/Open/Normal
Distance of Tachometer	1mm~1M, within 45 deg
Sensor of Tachometer	Optical Sensor with Stand
Balancing Speed	180~14,000RPM
Operation time of DC power	1.5H

Accessories	Description
Tachometer with Magnetic base	Optical Sensor
Accelerometer with screw	100 mV/g, Industrial
Screw	1/4-28 UNF
Cable	BNC to Mil2 pin, Length=2.5m
Protractor	0~360° x 1 EA
Reflective Tape	1 EA
Case	Aluminum Hard Carrying Case
Power Cable	1 EA
User's Manual	1 EA
Product Warranty Card	1 EA
Operation CD	1 EA
Certificate of Calibration	1 EA

FEATURES:

- Balance the grinder on the machine.
- Quick balancing in 5 minutes.
- Balance the grinder to 0.1 μm vibration level.
(optimal value for static balancing is around 3 μm)
- 10 times faster than static balancing.
- Continuously monitor the vibration level of the machine.
- Improve machining quality and efficiency. Reduce the roughness and chatter of the machining surface.
- Extend the life of the grinder and the spindle bearing.

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INSTRUMENTS

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