



HOFMANN

Precision Balancing Systems



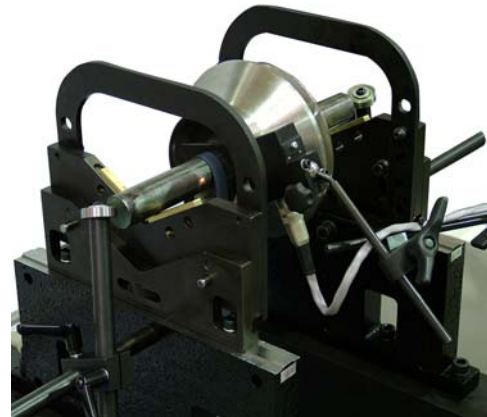
Economy!

Economy Horizontal, Universal Balancers **Models 16.1E, 19.1E, & 22.1E**

- ♦ *Hard-bearing suspension with permanent calibration*
- ♦ *Piezo-electric transducers, force-measuring balancing machine*
- ♦ *Two-plane, single-plane, and couple balancing capability*
- ♦ *Variable speed motor*
- ♦ *Work supports fully traversable along precision-ground round bars*
- ♦ *Standard and optional hardware and software features to meet customer balancing requirements*

Economy Horizontal Balancing Systems

Models 16.1E, 19.1E, and 22.1E are low-cost, two-plane, precision horizontal balancing machines for universal applications including armatures, precision spindles, shafts, pump impellers, blowers, fans, turbines, rollers, and other applications requiring high-precision balancing. Hard-bearing technology and force-measuring transducers ensure extremely accurate and sensitive unbalance measurement.



- ◆ Rugged piezo-electric transducers are not affected by temperature or humidity, and are completely sealed to prevent contamination by dust or dirt
- ◆ Work supports are fully traversable along precision-ground round bars
- ◆ Two easy-to-adjust end-thrust assemblies with precision ball bearing to accept axial load for belt-drive systems
- ◆ All-metric design
- ◆ Photocell for detection of rpm
- ◆ Gravity-style belt tensioner ensures consistent drive-belt pressure from run-to-run and rotor-to-rotor
- ◆ Optional protective safety guard meets OSHA and/or CE requirements
- ◆ Custom-designed hardware and software available
- ◆ Various electronic measuring instruments available for use with this machine — details upon request
- ◆ Standard software includes:
 - *Electronic Zeroing* ▪ *Tooling Compensation* ▪ *Auto Ranging*
 - *Averaging Over Time* ▪ *Component Balancing* ▪ *Rotor Memory*
 - *Empirical Calibration* ▪ *Networking* ▪ *Serial Port*
 - *Printer Software* ▪ *ISO/API Tolerance Calculation Software*

Technical Specifications

	Model 16.1E	Model 19.1E	Model 22.1E
Configuration	Belt Drive	Belt Drive	Belt Drive
Maximum normal operating weight of rotor	300 kg (660 lb)	600 kg (1320 lb)	1200 kg (2690 lb)
Maximum weight per pedestal	150 kg (330 lb)	300 kg (660 lb)	600 kg (1320 lb)
Minimum weight of rotor	0.2 kg (8 oz)	1 kg (2.2 lb)	2 kg (5 lb)
Maximum diameter of rotor	750 mm (30 in)	750 mm (30 in)	750 mm (30 in)
Maximum length of rotor between centers of bearings	1050 mm (41 in)	1050 mm (41 in)	2100 mm (82 in)
Minimum length of rotor between centers of bearings	90 mm (3.5 in)	90 mm (3.5 in)	90 mm (3.5 in)
Balancing speeds infinitely variable	Rotor dependent	Rotor dependent	Rotor dependent
Accuracy (displacement of C.G.)	≤ 0.25 μm (≤ 10 μin)	≤ 0.25 μm (≤ 10 μin)	≤ 0.25 μm (≤ 10 μin)
Sensitivity	≤ 0.25 gmm/kg	≤ 0.25 gmm/kg	≤ 0.25 gmm/kg
Unbalance reduction ratio	95%	95%	95%
Power of motor (standard)	0.75 kW ac (1.0 hp)	1.5 kW ac (2 hp)	3.8 kW ac (5 hp)
Electrical characteristics (USA)	230 V, 3-phase, 60 Hz	230 V, 3-phase, 60 Hz	230 V, 3-phase, 60 Hz
Electrical service	15 A	15 A	30 A

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