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# HOFMANN

*Precision Balancing Systems*



## **Model 11.1**

### **Horizontal, Universal Balancer**

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

# Model 11.1 Horizontal, Universal Balancer

**Model 11.1** is a two-plane, horizontal balancing machine 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 support rails that ensure the work support pedestals are parallel to each other
- ◆ V-block, roller bearing, or half-shell supports
- ◆ Two easy-to-adjust end-thrust assemblies with precision ball bearing to accept axial load for belt-drive systems
- ◆ Photocell or phase-coil detection of rpm
- ◆ Optional protective safety guard meets OSHA and/or CE requirements
- ◆ Table mounting or optional precision-machined, steel floor stand
- ◆ Custom-designed hardware and software available
- ◆ Various electronic measuring instruments available for use with this machine — details upon request
- ◆ All-metric design



## Technical Specifications

|   |  |
|---|--|
| Configuration   | Belt Drive   |
| Maximum normal operating weight of rotor                  | 8 kg (18 lb)   |
| Maximum weight per pedestal                               | 4 kg (7.5 lb)  |
| Minimum weight of rotor                                   | 0.03 kg (1 oz)   |
| Maximum diameter of rotor over underdrive machine bracket | 200 mm (7-7/8 in)  |
| Max. diameter of rotor over rest of machine bed           | 250 mm (10 in)   |
| Maximum length of rotor between centers of bearings       | 460 mm (18 in)   |
| Minimum length of rotor between centers of bearings       | 13 mm (0.5 in)   |
| Balancing speeds single speed                             | Rotor dependent  |
| Accuracy (displacement of C.G.)                           | $\leq 0.25 \mu\text{m}$ ( $\leq 10 \mu\text{in}$ )       |
| Sensitivity   | $\leq 0.25 \text{ gmm/kg}$                               |
| Unbalance reduction ratio                                 | 95%  |
| Power of motor (standard)                                 | Fractional hp ac   |
| Electrical characteristics                                | 115 V, single-phase, 60 Hz<br>230 V, single-phase, 50 Hz |
| Electrical service  | 15 A   |

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