

ERBESSD INSTRUMENTS®

# EI SERIES

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Balancing Machines

# EI-300

The ideal balancing machine for all types of rotating parts up to 300kg including rollers, motor rotors, crankshafts, mills, and many others.



The floating bases of the EI-300 are manufactured **tough** and **light** to reduce mechanical inertia.

# TECHNICAL SPECIFICATIONS

**Dimensions:**

2020 x 1007x 1275 mm

**Sequential unbalance reduction:**

95%

**Weight:**

302 kg (666 lb)

**Max rotor diameter:**

670 mm (26 in)

**Max weight per base:**

150 kg (330 lb)

**Power transmission:**

V Band, Type A

**Max journal diameter:**

160 mm (6.2 in)

**Max SBS displacement:**

35 mm (1.3 in)

**Lubrication:**

Manual

**Precision:**

±0.01 mm/s

**Accelerometer Sensitivity:**

100 mV/g

**Residual unbalance:**

2 gr·mm/ 100kg rotor

**Min/Max symmetric load:**1 kg (2.2 lb)  
150 kg (330 lb)**Min/Max distance between supports:**190 mm (7.4 in)  
1790 mm (70.4 in)**Motor features:**2.24 kW (3 hp)  
220 / 440 V, 3 phases,  
4 poles**Speed driver (VFD):**

Included

For more information. Visit our **YouTube** page.

<https://www.youtube.com/c/ErbessdinstrumentsOfficial>

Every balancing machine in the **EI Series** has a **Soft Bearing Suspension (SBS)** built in.

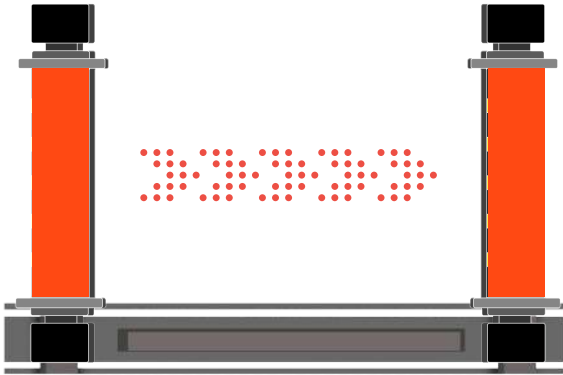
The **SBS** technology guarantees the most reliable balancing with the easiest to use software.



The **SBS** base has the capability to rotate itself within its axis and has an **horizontal 45° tilt**. These features protect the poles and provide maximum **durability**.

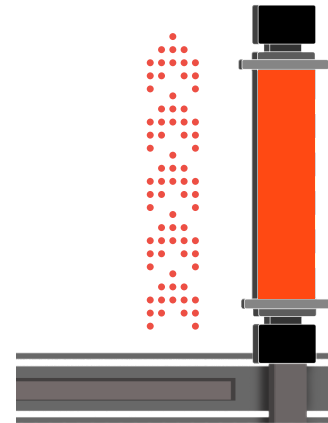


# ADAPTABILITY LIKE NO OTHER

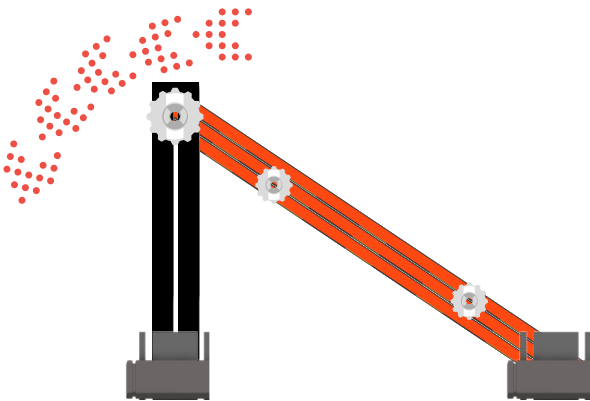


The EI 300 **pedestals can be adjusted** to adapt to a wide variety of shafts.

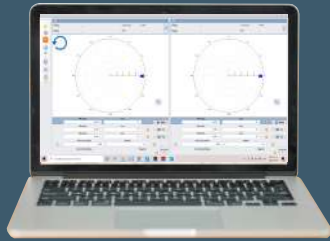
The **height** of the base **can also be changed** to fit rotors with different diameters.



And the **transmission adjuster** will help you achieve the perfect height and tension between the bench and your rotor.



## INCLUDED DEVICES



### DigivibeMX

Balancing software for 1 and 2 planes  
 Calculator with 12 functions  
 Balancing Wizard & in situ  
 Quality grade  
 Polar graphics with vibration phase



### Accelerometers AC500 (2)

Sensitivity: 100mV/G  
 Frequency response: 0.32-10 KHz  
 Magnetic base included  
 Made of stainless steel  
 Standard 3 pin MIL connector

### GX400

Up to 4 monoaxial accelerometers or 1 triaxial and 1 monoaxial accelerometers  
 Cables included  
 Compatible with 5V sensors  
 Sample rate: 48,000 Hz  
 Frequency range: 0.5 - 20,000 Hz  
 Use it for dynamic balancing and vibration analysis



### Laser optical sensor

Analogic output  
 Range 1-5,000 Hz  
 Operation distance: 20 cm to 15 cm  
 Nylamid body  
 Magnetic base and cables included

The **EI-300** also includes one of the most powerful **motors** in the market and a high quality **speed driver**.

## ADDITIONAL ACCESORIES

### Negative load support



Accessory required to secure rotors with high vibration levels like crankshafts. Ensures your balancing is more **secure** and **precise**.

### Tablet Windows Surface

One of the most powerful Windows tablets.

The perfect device for dynamic balancing using **DigivibeMX**.



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