

ERBESSD INSTRUMENTS®

# EI SERIES

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Balancing Machines

# EI-3000

The ideal balancing machine for all types of rotating parts up to 3000kg including rollers, motor rotors, crankshafts, mills, and many others.



The floating bases of the EI-3000 are manufactured **tough** and **light** to reduce mechanical inertia.

# TECHNICAL SPECIFICATIONS

**Dimensions:**

2020 x 1382 x 1363 mm

**Sequential unbalance reduction:**

95%

**Weight:**

480 kg (1058lb)

**Max rotor diameter:**

1650 mm (65 in)

**Max weight per base:**

1500 kg (3307 lb)

**Power transmission:**

Flat belt

**Max journal diameter:**

225 mm (8.8 in)

**Max SBS displacement:**

22 mm (0.9 in)

**Lubrication:**

Manual

**Precision:**

±0.01 mm/s

**Accelerometer Sensitivity:**

100 mV/g

**Residual unbalance:**

2 gr·mm/ 100kg rotor

**Min/Max symmetric load:**5 kg (11 lb)  
1500 kg (3307 lb)**Min/Max distance between supports:**250 mm (9.9 in)  
1524 mm (60 in)**Motor features:**5.59 kW (7.5 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.

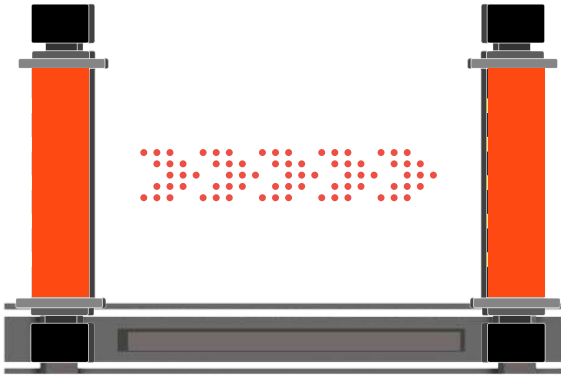
The **SBS** technology guarantees the most reliable balancing with the easiest to use software.



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**.

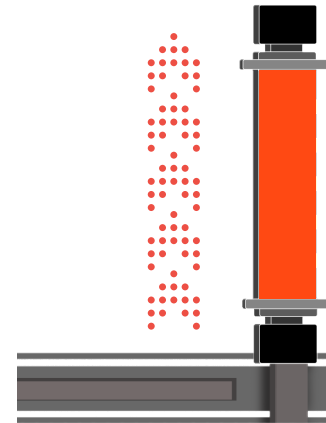


# ADAPTABILITY LIKE NO OTHER

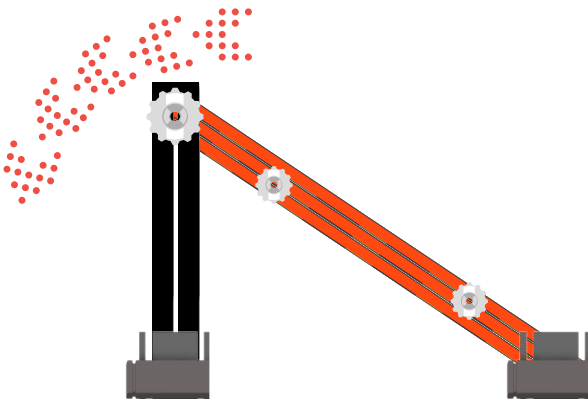


The EI 3000 **pedestals can be adjusted** to adapt to a wide variety of shafts.

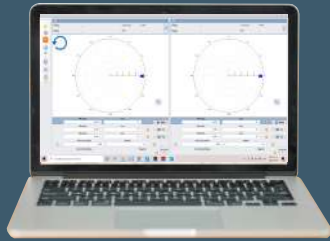
The **height** of the base **can also be changed** to fit rotors with different diameters.



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



### Laser optical sensor

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



### 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

The **EI-3000** 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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