

ERBESSD INSTRUMENTS®

EI SERIES

Balancing Machines

EI-4500

The ideal balancing machine for all types of rotating parts up to 4500kg including rollers, motor rotors, crankshafts, mills, and many others.



The floating bases of the EI-4500 are manufactured **tough** and **light** to reduce mechanical inertia.

TECHNICAL SPECIFICATIONS

Dimensions:

3000 x 1750 x 1325 mm

Sequential unbalance reduction:

95%

Weight:

520 kg (1146lb)

Max rotor diameter:

1800 mm (71 in)

Max weight per base:

2250 kg (4960 lb)

Power transmission:

Flat belt

Max journal diameter:

280 mm (11 in)

Max SBS displacement:

40 mm (3.1 in)

Lubrication:

Manual

Precision:

±0.01 mm/s

Accelerometer Sensitivity:

100 mV/g

Residual unbalance:

2 gr·mm/ 100kg rotor

Min/Max symmetric load:100 kg (220.4lb)
2250 kg (4961 lb)**Min/Max distance between supports:**200 mm (7.8 in)
--- mm (--- in)**Motor features:**7.4 kW (10 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.

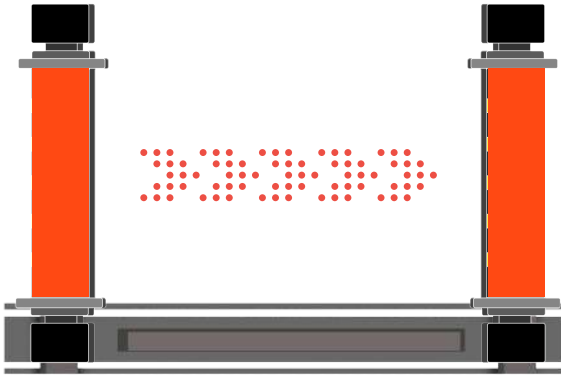
The **SBS** technology guarantees the most reliable balancing with the easiest to use software.



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**.

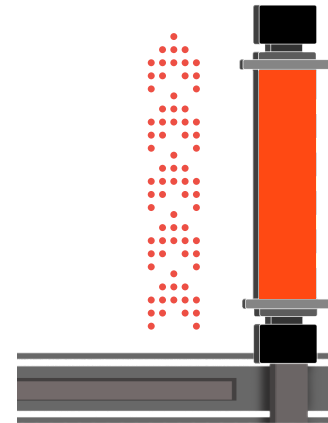


ADAPTABILITY LIKE NO OTHER

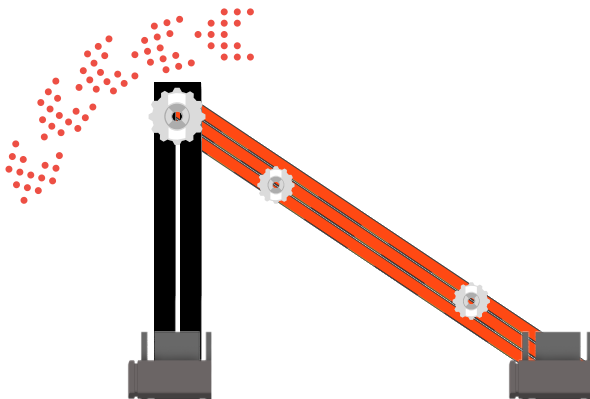


The EI 4500 **pedestals can be adjusted** to adapt to a wide variety of shafts.

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

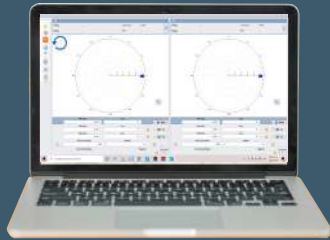


And the **transmission adjuster** will help you achieve the perfect height and tension between the bench and your rotor.



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) GX400



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

Up to 4 monoaxial accelerometers or 1 triaxial and 1 monoaxial accelerometers
 Cables included
 Compatible with 5V sensors

Laser optical sensor



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

Sample rate: 48,000 Hz
 Frequency range: 0.5 - 20,000 Hz
 Use it for dynamic balancing and vibration analysis

The **EI-4500** 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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