



# EI SERIES

---

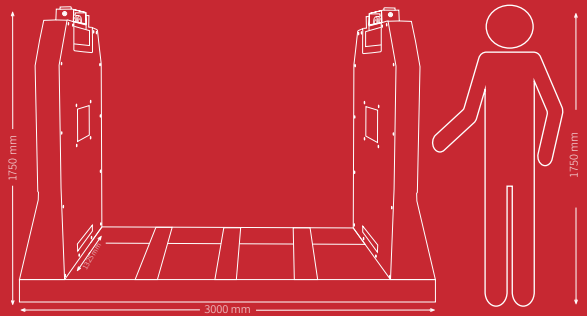
Balancing Machines



## EI-6000

The ideal balancing machine for all types of rotating parts up to 6000kg including rollers, motor rotors, crankshafts, mills, and many others.

### Dimensions of the Balancing Machine



The soft bearing suspension of the EI-6000 are manufactured **tough and light** to reduce mechanical inertia.

TECHNICAL SPECIFICATIONS



**Dimensions:**

3,000 x 1,750 x  
1,325 mm



**Sequential  
unbalance  
reduction:**

95%



**Weight:**

520 kg (1146.4 lb)



**Max rotor  
diameter:**

1800 mm (70.9 in)



**Max weight per  
base:**

3000 kg (6613.8 lb)



**Power  
transmission:**

Flat Belt



**Max journal  
diameter:**

343 mm (13.5 in)



**Max SBS  
displacement:**

38 mm (1.5 in)



**Lubrication:**

Manual



**symmetric load:**

Mn:150 kg (330.6 lb)  
Max:3000 kg (6613.8 lb)



**Precision:**

±0.01 mm/s



**Accelerometer  
Sensitivity:**

100 mV/g



**distance between  
supports:**

Min:500 mm (19.7 in)\*



**Residual unbalance:**

0.02 gr-mm/kg



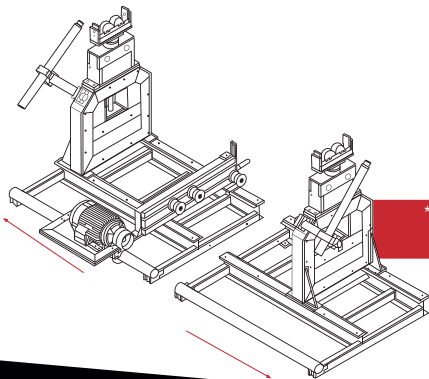
**Motor features:**

15HP, 4 poles  
220/440V



**Speed driver  
(VFD):**

Included



\*The maximum distance of the benches is defined by the user

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



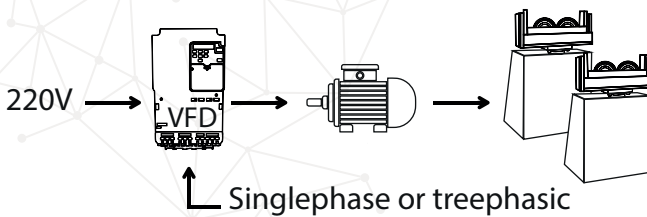
The **SBS** base has the capability to rotate itself within it's axis and has an **horizontal 45° tilt**. These features protect the poles and provide maximum **durability**.



**Device Model Yaskawa:** GA500  
**Rated Voltage:** 200 to 240 V  
**Capacity Range:** 240V  
**Singlephase:** 1/6 to 5HP (0.1 to 3.7 kW)  
**Input Frequency:** 50/60 Hz  
**Output Frequency:** 0 to 590 Hz

**Mobile App DriveWizard**

## Device diagram



Download the DriveWizard App here



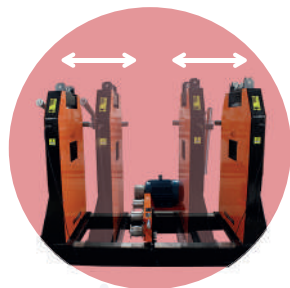
Google play



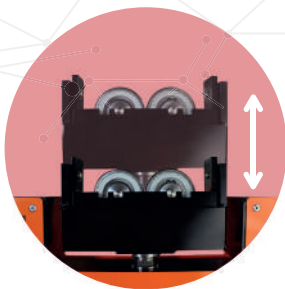
Apple Store

# ADAPTABILITY LIKE NO OTHER

The EI 6000 **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.

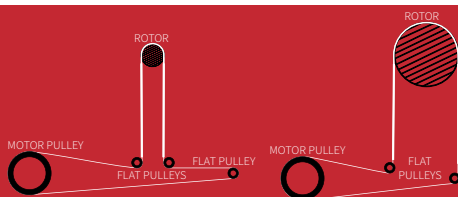


And the **transmission adjuster** will help you achieve the perfect height and tension between the bench and your rotor.



## Configuration of the belt

The configuration of the pulleys depends by the diameter of the rotors on which the belt acts, it is important that the belt be the most vertical possible in the fall (yellow zone)



# INCLUDED DEVICES



## DigivibeMX

Balancing software for 1 and 2 planes  
 Calculator with 12 functions  
 Balancing Wizard for balancing In-situ  
 or using Soft Bearing Suspensions  
 personalice 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

**Frequency range:**

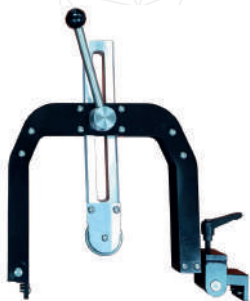
0.5 - 20,000 Hz

Use it for dynamic  
 balancing and vibration analysis

**Sample rate:** 48,000 Hz

The **EI-6000** also includes  
 one of the most powerful  
**motors** in the market and a  
 high quality **speed driver**.

## ADDITIONAL ACCESORIES



### Negative load support

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



### Tablet Windows Surface

One of the most powerful Windows tablets.  
 The perfect device for dynamic balancing using **DigivibeMX**.



### EI Control Module Optional

Ideal accesory for storage and organization of balancing devices such as computer, interface and tools. Keep your equipment in order with this control panel.

# **ERBESSD INSTRUMENTS®**

**WORLDWIDE toll-free:**

**+1-877-223-4606**

**ENGLISH:**

**Sales, Service & Tech Support**

**+1-518-874-2700**

**info@erbessdreliability.com**

**SPANISH & FRENCH:**

**Sales, Service & Tech Support**

**+52 (55) 6280-7654**

**info@erbessd-instruments.com**

**WEB SITE**

**www.erbessd-instruments.com**

ALL THE IMAGES ARE FOR ILLUSTRATIVE PURPOSES ONLY. THE FINAL  
PRODUCT MAY VARY DEPENDING ON THE VERSION AND/OR THE CHANGES  
OR UPGRADES MADE TO THE PARTS AND COMPONENTS OF THE DEVICES

© 2018 ERBESSD INSTRUMENTS

EI6K-DS2021.1002.15