EI-500 Balancing Machine Datasheet



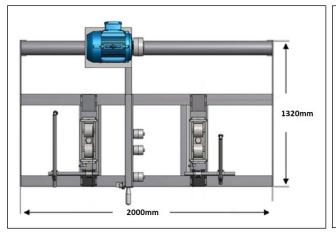
The EI-500 Balancing Machine is ideal for all types of rotating parts up to 500 kg, such as rollers, motor rotors, crankshafts, fans, mills, among others. The floating supports are built strong and lightweight to reduce mechanical inertia.

Characteristics

- 2-Plane balancing without trial weights (SBS).
- Variable speed (speed driver included).
- Easy Adjustable pulleys (manually).
- 3 liberty axes on each pedestal.
- Simple settings for transmission set & pedestals.
- 2 Separable bench-frames with levelers.
- Soft bearing suspensions to minimize mechanical losses.
- Axial supports included.
- Auto-aligned rollers.
- Sealed accelerometers to avoid corrosion.
- Autocalibration for interface and sensors.
- Very Low balancing speed.
- SBS prepared to use Negative Load Supports (optional).
- Control module & balancing kits (optionals).

Technical Specs

Min-Max Load to Balance using SBS method	1 - 500 kg / 2.2 - 1100 lb
Maximum Load per Pedestal	250 kg / 550 lb
Maximum Rotor Diameter with	1066 – 1600 mm / 42 – 63 in
Transmission in – out of pedestals	
Dimensions Long X Width X Height (2	(2x)1000 x 1320 x 1006 mm /
separable bench frames for long rotors)	79 x 52 x 40 in
Weight of machine (standard package)	332 kg / 732 lb
Max. SBS oscillation displ. (Pk-Pk)	35 mm / 1.4 in
Min-Max shaft diameter (Recommended)	12 - 130 mm / 0.5 - 5.1 in
Max. elevation height for SBS leveler	15 mm / 0.6 in
Min-Max dist. between pedestals with the	114-1700 mm / 4.5-70 in
2 benches together	
Transmission type & belt width	Flat belt – 30 mm / 1.2 in
Lubrication	Type-I (manual)
Precision	+/- 0.01 mm/s – G0.4
Accelerometer Sensitivity	100mV/G (opt. 500mV/G)
ISO 2953 Seq. Unbal. Reduction	95%
Residual Imbalance (mechanics ++)	0.2 g.mm/kg
Motor features	2.3 kW - 3 hp, 220-440V, 3ph, 4p
VFD / Speed Inverter (select voltage 220V	Included 2.3 kW / 3 hp
or 440V with PO)	
Min. Balancing Speed RPM using SBS	450 RPM
SBS Calibration Coeff. (with NLS)	6.76 (+4.1)

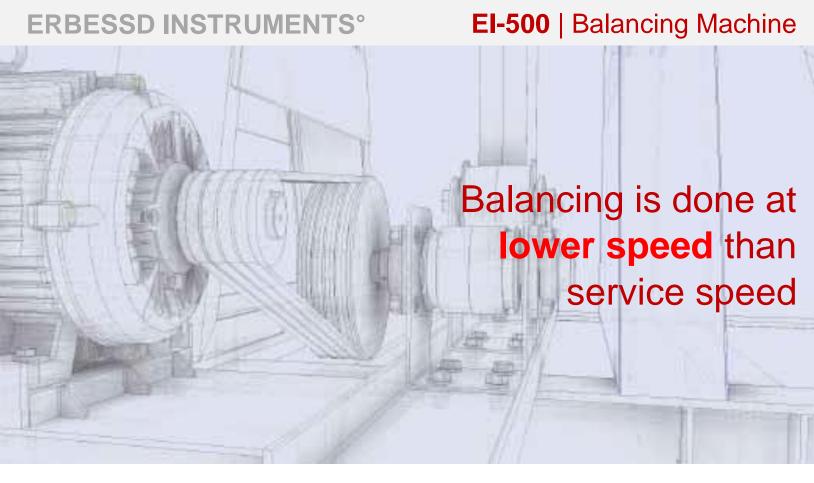




Cantilever rollers for short shafts

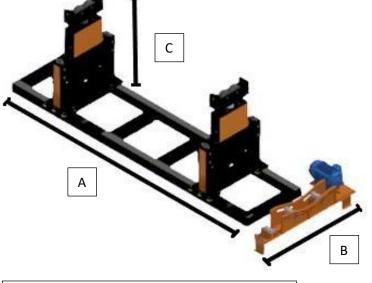
Negative Load Supports (optional)



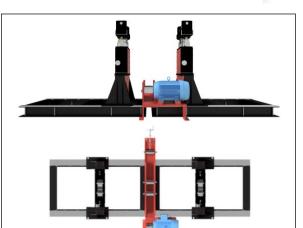


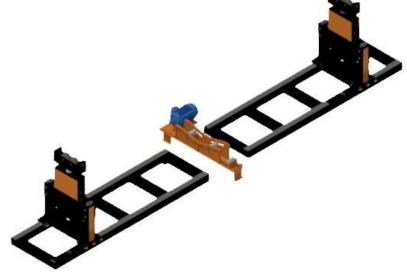
Mounting Configurations

Dimensions



Α	2000 mm / 78.7 in
В	1320 mm / 52 in
С	1006 mm / 40 in





Configuration for long rotors when bench frames are separated.

EI-500 | Balancing Machine

DigivibeMX M10

An **easy-to-use** system designed specifically for all our **Balancing Machines**.

The software includes 2 balancing modes:

- No-trial weights (SBS)
- Influence Coefficients

 (with trial weights, in-situ
 balancing).



Software Features

- Balancing without Trial Weights (SBS).
- Balancing Calculator ultra-easy-to-use.
- Plug&Play DAQ interface.
- Balance speeds from 120 to 150'000 RPM.
- Manual and Guides in English.

- 2 Polar charts.
- Balancing Reports with tendency graphs.
- Compatible with other formats (ANL, ASCII, WAV).
- 2 Accelerometers + 1 tachometer included.
- 3 Activation license, NO annual fee.
 - * tablet not included in the standard kit.

Includes:

1x 4-Channel Interface INT4-GX400



2x Accelerometers **AC500-2P**



1x Laser Tachometer OP20-5P



3 LEMO 5-pin Connectors

2-plane simultaneous readings

Up to 4 mono-axial accelerometers

Sample Rate: 48kHz

Protection grade: IP67

Power supply: 5V

Dimensions: 67x74x22mm

Weight: 100g

Dyn. Impact: 80G (max 5000G)

Freq. Resp: (+/- 3dB): 0.32Hz-13kHz

Sensitivity: 100mV/G +/- 10%

Power supply: 18-30V 5mAcc

Oper. Temp: -50°C a 121°C

Protection grade: IP68

Connector: 2-pin MIL

Weight: 50g Stainless (w/o mgnt)

Freq. Resp: 1 – 5000Hz Power supply: 5V – 10mA

Oper. Distance: 20cm – 5m

Oper. Temp: -10 to 50°C

Protection: IP60 III

Analogic output

Weight: 60g

Material: Nylon

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