

# **EI-150**

## **Balancing Machine**

**Datasheet**



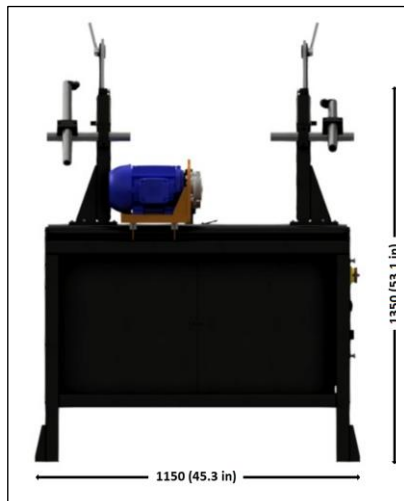
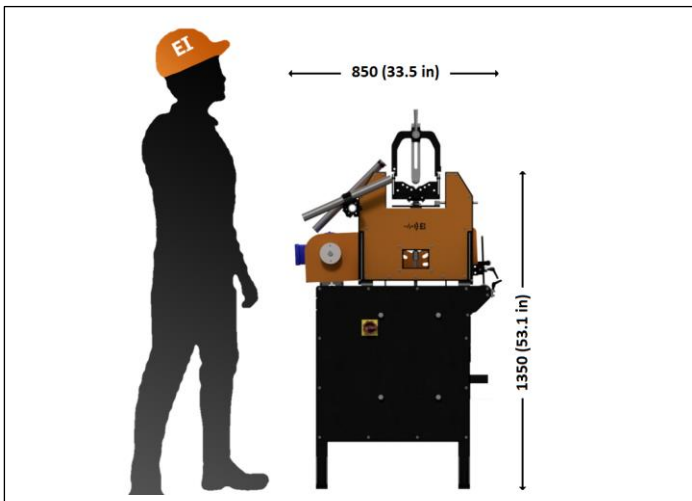
**EI-150** Balancing Machine can balance all kinds of light rotors up to 150 kg. Whether it's rollers, electric rotors, crankshafts, fans and more, its aluminum **Soft Bearing Suspensions** are strong and allow high sensitivity on vibration measurements.

## Characteristics

- 2-Plane balancing without trial weights (SBS).
- Variable speed (speed driver included).
- Easy Adjustable pulleys (manually).
- 2 liberty axes on each pedestal.
- Simple settings for transmission set & pedestals.
- 1 Bench-frame with levelers for any kind of rotors.
- 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	0.25-150 kg / 0.6-330 lb
Maximum Load per Pedestal	75 kg / 165 lb
Maximum Rotor Diameter with Transmission in - out	550 – 750 mm / 21 – 29 in
Dimensions Long X Width X Height (2 <sup>nd</sup> bench optional)	1150 x 850 x 1350 mm / 45x33x53 in
Weight of machine (standard package)	190 kg / 419 lb
Max. SBS oscillation displ. (Pk-Pk)	20 mm / 0.8 in
Min-Max shaft diameter (Recommended)	5 - 150 mm / 0.2 - 5.9 in
Max. elevation height for SBS leveler	40 mm / 1.6 in
Min-Max dist. between pedestals	120-750 mm / 4.7-29 in
Transmission type & belt width	Flat Belt – 20 mm / 0.8 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	1.5kW-2hp, 220-440V, 3ph, 4p
VFD / Speed Inverter (select voltage 220V or 440V with PO)	Included 1.5 kW / 2 hp
Min. Balancing Speed RPM using SBS	900 RPM
SBS Calibration Coeff. (with NLS)	6.3 (+1.1)



# 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 speed 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 5mA
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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