

EI-30

Balancing Machine

Datasheet



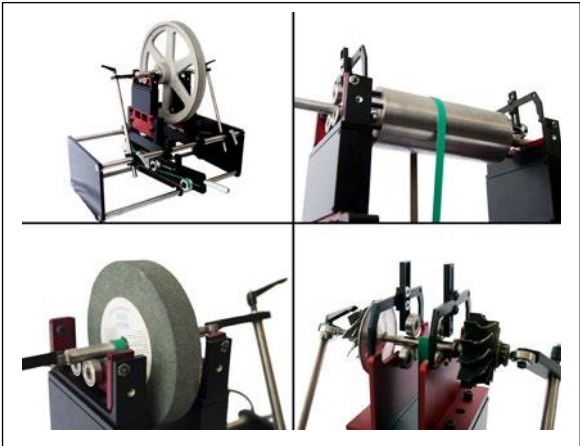
EI-30 is a high precision horizontal balancer ideal for high speed turbochargers, as well as for all types of low weight rotors. The low inertia of its mechanical components reduces resistance to vibration and increases the sensitivity for accurate the balancing.

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	0.05-30 kg / 0.1-66 lb
Maximum Load per Pedestal	15 kg / 33 lb
Maximum Rotor Diameter	508 mm / 20 in
Dimensions Long X Width X Height	609 x 508 x 480 mm / 24 x 20 x 19 in
Weight of machine (standard package)	25 kg / 55 lb
Max. SBS oscillation displ. (Pk-Pk)	11 mm / 0.4 in
Min-Max shaft diameter (Recommended)	2 - 88 mm / 0.1 – 3.5 in
Max. elevation height for SBS leveler	25 mm / 1 in
Min-Max dist. between pedestals	15 - 520 mm / 0.6 – 20.5 in
Transmission type & belt width	Flat belt – 12 mm / 0.5 in
Lubrication	Type-I (manual)
Precision	+/- 0.01 mm/s – G0.1
Accelerometer Sensitivity	100mV/G (opt. 500mV/G)
ISO 2953 Seq. Unbal. Reduction	95%
Residual Imbalance (mechanics ++)	0.2 g.mm/kg
Motor features	124W - 1/6 hp, 110-220VAC, 1ph
VFD / Speed Inverter	Included 124W / 1/6 hp
Min. Balancing Speed RPM using SBS	900 RPM
SBS Calibration Coeff. (with NLS): Light supports: red angled & nylamid Pendular supports: black assembly	Using Light supports = 0.67 Using Pendular supports = 0.8 Using NLS = +0.2



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).



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
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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