EI-25T Balancing Machine

Datasheet

EI-25T | Balancing Machine



EI-25T Balancing Machine can balance all kinds of rotors up to 25 tons.

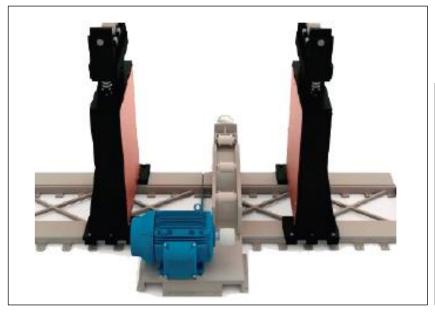
Whether they are rollers, electric rotors, crankshafts, fans and more, its **Soft Bearing Suspensions** are strong & light to allow high sensitivity on vibration measurements.

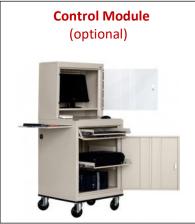
Characteristics

- 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

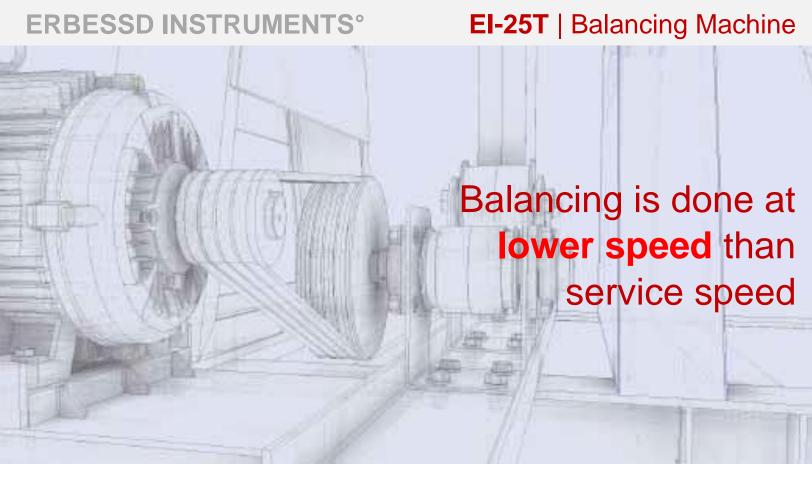
Min-Max Load to Balance using SBS method Maximum Load per Pedestal Maximum Rotor Diameter with Transmission in – out of pedestals Dimensions Long X Width X Height (2 separable bench frames for long rotors) Weight of machine (standard package) Max. SBS oscillation displ. (Pk-Pk) Min-Max shaft diameter (Recommended) Max. elevation height for SBS leveler Transmission type & belt width Lubrication Precision Accelerometer Sensitivity 100 mV/G (opt. 500mV/G) ISO 2953 Seq. Unbal. Reduction Residual Imbalance (mechanics ++) Min. Balancing Speed RPM using SBS 150 RPM SBS Calibration Coeff. (with NLS) 2000 – 25,000 kg / 4.4 - 55 klb 3000 – 3400 mm / 118 – 134 in 12500 kg / 27.6 klb 3000 – 3400 mm / 118 – 134 in 12500 kg / 27.6 klb 3000 – 3400 mm / 118 – 134 in 12500 kg / 4.4 - 55 klb 3000 – 3400 mm / 118 – 134 in 12500 kg / 4.4 - 50 klb 3000 – 3400 mm / 118 – 134 in 12500 kg / 27.6 klb 3000 – 3400 mm / 118 – 134 in 12500 kg / 4.4 - 50 klb 3000 – 3400 mm / 118 – 134 in 12500 kg / 4.4 - 50 klb 3000 – 3400 mm / 118 – 134 in 12500 kg / 4.4 - 50 klb 3000 – 3400 mm / 12 in 12500 kg / 4.4 - 50 klb 3000 – 3400 mm / 12 in 12500 kg / 4.4 - 50 klb 12500 kg / 5.95 klb 12500		
Maximum Load per Pedestal Maximum Rotor Diameter with Transmission in – out of pedestals Dimensions Long X Width X Height (2 separable bench frames for long rotors) Weight of machine (standard package) Max. SBS oscillation displ. (Pk-Pk) Min-Max shaft diameter (Recommended) Max. elevation height for SBS leveler Transmission type & belt width Lubrication Precision Accelerometer Sensitivity Motor features Very Min-Max dist. Reduction Residual Imbalance (mechanics ++) Motor features 12500 kg / 27.6 klb 3000 – 3400 mm / 118 – 134 in 3000 – 3400 mm / 118 – 134 in 3000 – 3400 mm / 210 mm / 2 (2x)78.7 x 88 x 83 in 100 mm / 3.9 in 100 mm / 3.9 in 100 mm / 3.9 in 100 mm / 2.5 – 23.6 in 100 mm / 2 in 100 – 2800 mm / 28 – 110 in 100 – 2800 mm /	Min-Max Load to Balance using SBS	2000 – 25,000 kg / 4.4 - 55 klb
Maximum Rotor Diameter with Transmission in – out of pedestals Dimensions Long X Width X Height (2 separable bench frames for long rotors) Weight of machine (standard package) Max. SBS oscillation displ. (Pk-Pk) Min-Max shaft diameter (Recommended) Max. elevation height for SBS leveler Min-Max dist. between pedestals with the 2 benches together Transmission type & belt width Lubrication Precision Accelerometer Sensitivity ISO 2953 Seq. Unbal. Reduction Residual Imbalance (mechanics ++) Min. Balancing Speed RPM using SBS 150 RPM	method	
Transmission in – out of pedestals Dimensions Long X Width X Height (2 separable bench frames for long rotors) Weight of machine (standard package) Max. SBS oscillation displ. (Pk-Pk) Min-Max shaft diameter (Recommended) Max. elevation height for SBS leveler Min-Max dist. between pedestals with the 2 benches together Transmission type & belt width Lubrication Precision Accelerometer Sensitivity 100 mw / 2 in 700 - 2800 mm / 28 - 110 in Flat belt – 102 mm / 4 in Lubrication Type-I (manual) Precision Accelerometer Sensitivity 100mV/G (opt. 500mV/G) ISO 2953 Seq. Unbal. Reduction Residual Imbalance (mechanics ++) Motor features 36 kW – 50 hp, 440V, 3ph, 6p VFD / Speed Inverter (select voltage 220V or 440V with PO) Min. Balancing Speed RPM using SBS 150 RPM	Maximum Load per Pedestal	12500 kg / 27.6 klb
Dimensions Long X Width X Height (2 separable bench frames for long rotors) Weight of machine (standard package) Max. SBS oscillation displ. (Pk-Pk) Min-Max shaft diameter (Recommended) Max. elevation height for SBS leveler Min-Max dist. between pedestals with the 2 benches together Transmission type & belt width Lubrication Precision Accelerometer Sensitivity 100 mV/G (opt. 500mV/G) ISO 2953 Seq. Unbal. Reduction Residual Imbalance (mechanics ++) Motor features VED / Speed Inverter (select voltage 220V or 440V with PO) Min. Balancing Speed RPM using SBS (2x)2000 x 2241 x 2100 mm / (2x)78.7 x 88 x 83 in (2x)2000 x 2241 x 2100 mm / (2x)78.7 x 88 x 83 in (2x)2000 x 2241 x 2100 mm / (2x)78.7 x 88 x 83 in (2x)2000 x 2241 x 2100 mm / (2x)78.7 x 88 x 83 in (2x)2000 x 2241 x 2100 mm / (2x)78.7 x 88 x 83 in (2x)2000 x 2241 x 2100 mm / (2x)78.7 x 88 x 83 in (2x)2000 x 2241 x 2100 mm / (2x)78.7 x 88 x 83 in 100 mV / 3.9 in 100 mV / 2 100 mm / 3.9 in 100 mV / 2 23.6 in 700 - 2800 mm / 28 - 110 in 700 - 2800 mm / 28 - 110 in 700 - 2800 mm / 2 in	Maximum Rotor Diameter with	3000 – 3400 mm / 118 – 134 in
separable bench frames for long rotors) Weight of machine (standard package) Max. SBS oscillation displ. (Pk-Pk) Min-Max shaft diameter (Recommended) Max. elevation height for SBS leveler Min-Max dist. between pedestals with the 2 benches together Transmission type & belt width Lubrication Precision Accelerometer Sensitivity 100mV/G (opt. 500mV/G) ISO 2953 Seq. Unbal. Reduction Residual Imbalance (mechanics ++) Motor features Yeb (SPE) 1200 mm / 2 in 100 - 2800 mm / 28 - 110 in 100 - 2800 mm / 28 - 110 in 100 - 2800 mm / 28 - 110 in 100 - 2800 mm / 2 in 100 - 2800 mm / 28 - 110 in 100 - 2800 mm / 28 - 110 in 100 - 2800 mm / 28 - 110 in 100 - 2800 mm / 28 - 110 in 100 - 2800 mm / 28 - 110 in 100 - 2800 mm / 28 - 110 in 100 - 2800 mm / 28 - 110 in 100 - 2800 mm / 28 - 110 in 100 - 2800 mm / 28 - 110 in 100 - 2800 mm / 28 - 110 in 100 - 2800 mm / 28 - 110 in 100 - 2800 mm / 28 - 110 in 100 - 2800 mm / 28 - 110 in 100 - 2800 mm / 28 - 110 in 100 - 2800 mm / 28 - 110 in 100 - 2800 mm / 28 - 110 in 100 - 2800 mm / 2 in 100 - 2800 mm / 2 in 100 - 2800 mm / 28 - 110 in 100 - 2800 mm / 28 - 110 in 100 - 2800 mm / 28 - 110 in 100 - 2800 mm / 28 - 110 in 100 - 2800 mm / 2 in 100 -	Transmission in – out of pedestals	
Weight of machine (standard package) Max. SBS oscillation displ. (Pk-Pk) Min-Max shaft diameter (Recommended) Max. elevation height for SBS leveler Min-Max dist. between pedestals with the 2 benches together Transmission type & belt width Lubrication Precision Accelerometer Sensitivity ISO 2953 Seq. Unbal. Reduction Residual Imbalance (mechanics ++) Motor features VFD / Speed Inverter (select voltage 220V or 440V with PO) Min. Balancing Speed RPM using SBS 150 RPM	Dimensions Long X Width X Height (2	(2x)2000 x 2241 x 2100 mm /
Max. SBS oscillation displ. (Pk-Pk)100 mm / 3.9 inMin-Max shaft diameter (Recommended)38 - 600 mm / 1.5 - 23.6 inMax. elevation height for SBS leveler50 mm / 2 inMin-Max dist. between pedestals with the 2 benches together700 - 2800 mm / 28 - 110 inTransmission type & belt widthFlat belt - 102 mm / 4 inLubricationType-I (manual)Precision+/- 0.01 mm/s - G0.4Accelerometer Sensitivity100mV/G (opt. 500mV/G)ISO 2953 Seq. Unbal. Reduction95%Residual Imbalance (mechanics ++)1 g.mm/kgMotor features36 kW - 50 hp, 440V, 3ph, 6pVFD / Speed Inverter (select voltage 220V or 440V with PO)Included 36 kW / 50 hpMin. Balancing Speed RPM using SBS150 RPM	separable bench frames for long rotors)	(2x)78.7 x 88 x 83 in
Min-Max shaft diameter (Recommended) Max. elevation height for SBS leveler Min-Max dist. between pedestals with the 2 benches together Transmission type & belt width Lubrication Precision Accelerometer Sensitivity ISO 2953 Seq. Unbal. Reduction Residual Imbalance (mechanics ++) Motor features VFD / Speed Inverter (select voltage 220V or 440V with PO) Min. Balancing Speed RPM using SBS Somm/ 2 in 700 - 2800 mm / 28 - 110 in 700 - 2800 mm / 28 - 110 in 700 - 2800 mm / 28 - 110 in 700 - 2800 mm / 28 - 110 in 700 - 2800 mm / 28 - 110 in 700 - 2800 mm / 28 - 110 in 700 - 2800 mm / 28 - 110 in 700 - 2800 mm / 28 - 110 in 700 - 2800 mm / 2 in 700 - 2800 mm /	Weight of machine (standard package)	2700 kg / 5.95 klb
Max. elevation height for SBS leveler Min-Max dist. between pedestals with the 2 benches together Transmission type & belt width Lubrication Precision Accelerometer Sensitivity ISO 2953 Seq. Unbal. Reduction Residual Imbalance (mechanics ++) Motor features VFD / Speed Inverter (select voltage 220V or 440V with PO) Min. Balancing Speed RPM using SBS Sound 1700 - 2800 mm / 2 in 700 - 2800 mm / 28 - 110 in 700 mm / 20 - 20 - 20 - 20 - 20 - 20 - 20 - 20	Max. SBS oscillation displ. (Pk-Pk)	100 mm / 3.9 in
Min-Max dist. between pedestals with the 2 benches together Transmission type & belt width Lubrication Precision Accelerometer Sensitivity ISO 2953 Seq. Unbal. Reduction Residual Imbalance (mechanics ++) Motor features VFD / Speed Inverter (select voltage 220V or 440V with PO) Min. Balancing Speed RPM using SBS 700 - 2800 mm / 28 - 110 in 700 - 2800 mm / 28 - 110 in 700 - 2800 mm / 28 - 110 in 700 - 2800 mm / 28 - 110 in 700 - 2800 mm / 28 - 110 in 700 - 2800 mm / 28 - 110 in 700 - 2800 mm / 28 - 110 in 700 - 2800 mm / 28 - 110 in 700 - 2800 mm / 28 - 110 in 700 - 2800 mm / 28 - 110 in 700 - 2800 mm / 28 - 110 in 700 - 2800 mm / 28 - 110 in 700 - 2800 mm / 28 - 110 in	Min-Max shaft diameter (Recommended)	38 - 600 mm / 1.5 – 23.6 in
2 benches together Transmission type & belt width Lubrication Precision Accelerometer Sensitivity ISO 2953 Seq. Unbal. Reduction Residual Imbalance (mechanics ++) Motor features VFD / Speed Inverter (select voltage 220V or 440V with PO) Min. Balancing Speed RPM using SBS Flat belt – 102 mm / 4 in Type-I (manual) 1 ype-I (manual) 1 ype-I (manual) 1 your / 4 in 1 yell on / 4 in 1 ye	Max. elevation height for SBS leveler	50 mm / 2 in
Transmission type & belt width Lubrication Precision Accelerometer Sensitivity ISO 2953 Seq. Unbal. Reduction Residual Imbalance (mechanics ++) VFD / Speed Inverter (select voltage 220V or 440V with PO) Min. Balancing Speed RPM using SBS Type-I (manual) 100mV/G (opt. 500mV/G) 100mV/G	Min-Max dist. between pedestals with the	700 - 2800 mm / 28 - 110 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 ++) 1 g.mm/kg Motor features 36 kW - 50 hp, 440V, 3ph, 6p VFD / Speed Inverter (select voltage 220V Included 36 kW / 50 hp or 440V with PO) Min. Balancing Speed RPM using SBS 150 RPM	2 benches together	
Precision +/- 0.01 mm/s - G0.4 Accelerometer Sensitivity 100mV/G (opt. 500mV/G) ISO 2953 Seq. Unbal. Reduction 95% Residual Imbalance (mechanics ++) 1 g.mm/kg Motor features 36 kW - 50 hp, 440V, 3ph, 6p VFD / Speed Inverter (select voltage 220V Included 36 kW / 50 hp or 440V with PO) Min. Balancing Speed RPM using SBS 150 RPM	Transmission type & belt width	Flat belt – 102 mm / 4 in
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ISO 2953 Seq. Unbal. Reduction 95% Residual Imbalance (mechanics ++) 1 g.mm/kg Motor features 36 kW – 50 hp, 440V, 3ph, 6p VFD / Speed Inverter (select voltage 220V Included 36 kW / 50 hp or 440V with PO) Min. Balancing Speed RPM using SBS 150 RPM	Precision	+/- 0.01 mm/s – G0.4
Residual Imbalance (mechanics ++) 1 g.mm/kg Motor features 36 kW - 50 hp, 440V, 3ph, 6p VFD / Speed Inverter (select voltage 220V Included 36 kW / 50 hp or 440V with PO) Min. Balancing Speed RPM using SBS 150 RPM	Accelerometer Sensitivity	100mV/G (opt. 500mV/G)
Motor features 36 kW - 50 hp, 440V, 3ph, 6p VFD / Speed Inverter (select voltage 220V Included 36 kW / 50 hp or 440V with PO) Min. Balancing Speed RPM using SBS 150 RPM	ISO 2953 Seq. Unbal. Reduction	95%
VFD / Speed Inverter (select voltage 220V Included 36 kW / 50 hp or 440V with PO) Min. Balancing Speed RPM using SBS 150 RPM	Residual Imbalance (mechanics ++)	1 g.mm/kg
or 440V with PO) Min. Balancing Speed RPM using SBS 150 RPM	Motor features	36 kW – 50 hp, 440V, 3ph, 6p
Min. Balancing Speed RPM using SBS 150 RPM	VFD / Speed Inverter (select voltage 220V	Included 36 kW / 50 hp
	or 440V with PO)	•
SBS Calibration Coeff. (with NLS) 200 (+50)	Min. Balancing Speed RPM using SBS	150 RPM
	SBS Calibration Coeff. (with NLS)	200 (+50)





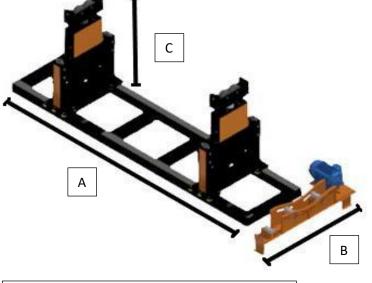
Negative Load Supports (optional)



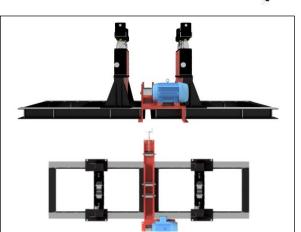


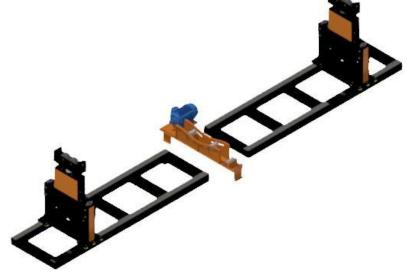
Mounting Configurations

Dimensions



Α	4000 mm / 157 in
В	2241 mm / 88.2 in
C	2100 mm / 82.7 in





Configuration for long rotors when bench frames are separated.

EI-25T | 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

ERBESSD INSTRUMENTS®

WORLDWIDE toll-free (English) +1-877-223-4606

ENGLISH (USA)
Sales, Service & Support Engineer
+1-518-874-2700
info@erbessdreliability.com

SPANISH & FRENCH
Ventas, Servicio & Soporte Técnico
+52 55-6280-7654 / +52 999-469-1603
info@erbessd-instruments.com

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