

ERBESSD INSTRUMENTS®

EI SERIES

Balancing Machines

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Balancing Machines



The most complete option for your balancing needs.

Designed to measure and eliminate the imbalance mass of any rotor.

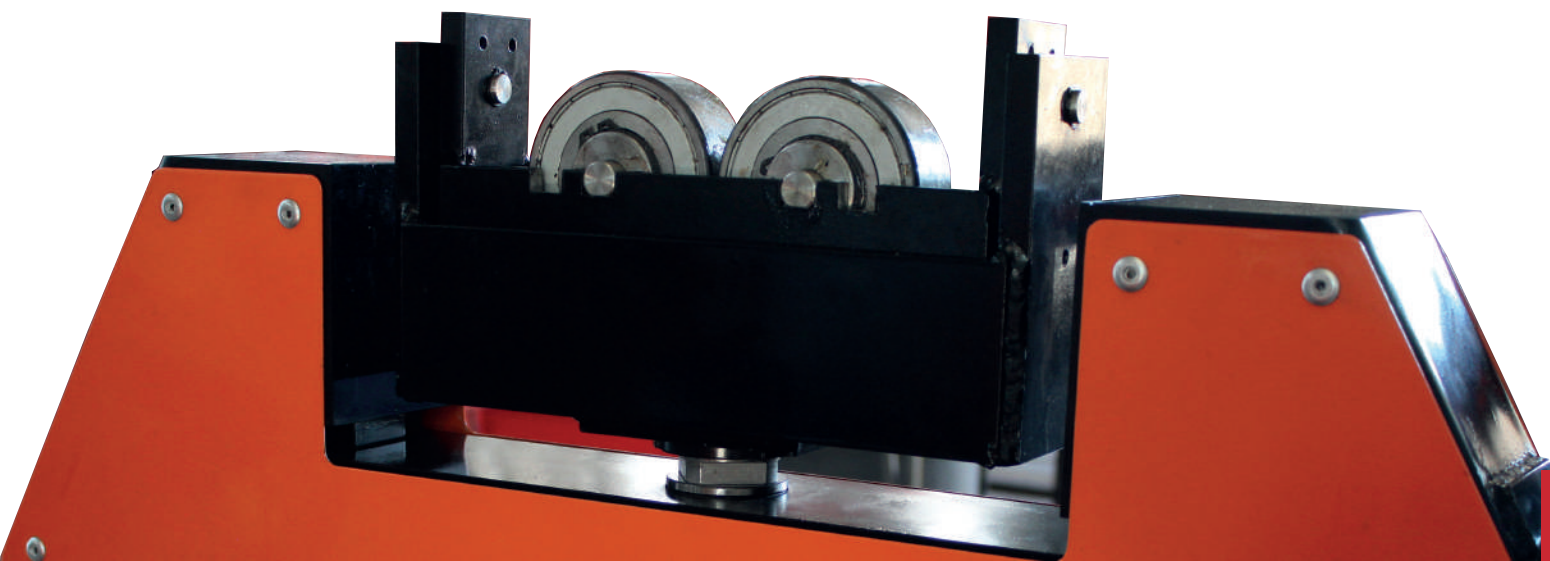
Our balancing machines detect the center of mass through vibration sensors to give you the most precise results.

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

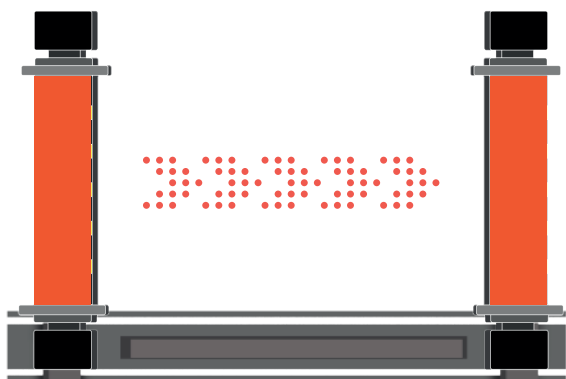
The **SBS** technology guarantees the most reliable balancing with the easiest to use software.



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

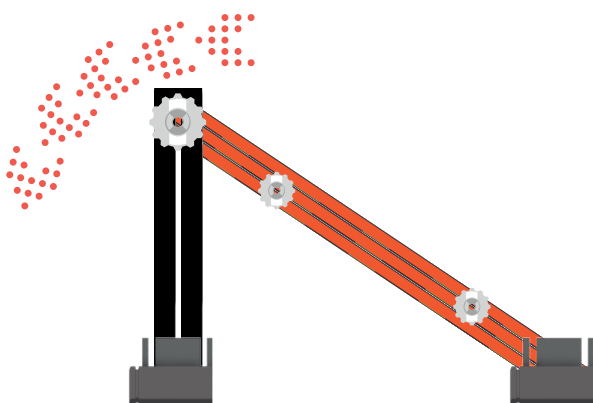
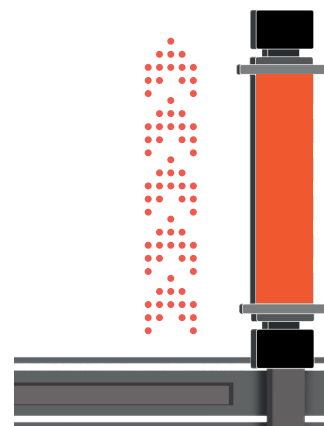


ADAPTABILITY LIKE NO OTHER



The EI Series **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.

EI-30 is a high precision horizontal balancer ideal for high speed turbochargers, as well as for other low weight rotors.



The low inertia reduces vibration resistance and increases the sensitivity and accuracy of the balancing process.

TECHNICAL SPECIFICATIONS

Dimensions:

725 x 456 x 595 mm

Sequential unbalance reduction:

95%

Weight:

25 kg (55 lb)

Max rotor diameter:

508 mm (20 in)

Max weight per base:

15 kg (33 lb)

Power transmission:

Flat belt

Max journal diameter:

88 mm (3.4 in)

Max SBS displacement:

11 mm (0.43 in)

Lubrication:

Manual

Precision:

±0.01 mm/s

Accelerometer Sensitivity:

100 mV/g

Residual unbalance:

2 gr·mm/ 100kg rotor

Min/Max symmetric load:

0.1 kg(0.6 lb)
15 kg (33 lb)

Min/Max distance between supports:

15 mm (0.59 in)
465 mm (18.3 in)

Motor features:

0.12 W (1/6 HP)
90 VDC

Speed driver (VFD):

Included

The EI-150 is ideal for all types of rotating parts up to 150kg as rollers, motor rotors, crankshafts, mills and many others.

The floating bases of the EI-150 are manufactured **tough** and **light** to reduce mechanical inertia.

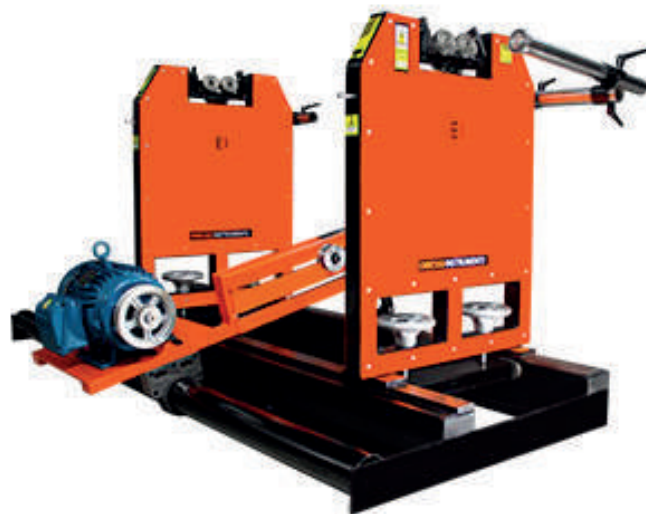


TECHNICAL SPECIFICATIONS

Dimensions: 1010 x 868 x 501 mm	Sequential unbalance reduction: 95%	Weight: 79 kg (174 lb)
Max rotor diameter: 660 mm (26 in)	Max weight per base: 75 kg (165 lb)	Power transmission: V Band, Type A
Max journal diameter: 180 mm (7 in)	Max SBS displacement: 20 mm (0.78 in)	Lubrication: Manual
Precision: ±0.01 mm/s	Accelerometer Sensitivity: 100 mV/g	Residual unbalance: 2 gr·mm/ 100kg rotor
Min/Max symmetric load: 0.5 kg (1.1 lb) 75 kg (165 lb)	Min/Max distance between supports: 60 mm (132 in) 831 mm (1832 in)	Motor features: 1.5 kW (2 hp) 220 / 440 V, 3 phases, 4 poles
	Speed driver (VFD): Included	

The EI-300 is ideal for all types of rotating parts up to 300kg as rollers, motor rotors, crankshafts, mills and many others.

The floating bases of the EI-300 are manufactured **tough** and **light** to reduce mechanical inertia.



TECHNICAL SPECIFICATIONS

Dimensions:
2020 x 1007x 1275 mm

Sequential unbalance reduction:
95%

Weight:
302 kg (666 lb)

Max rotor diameter:
670 mm (26 in)

Max weight per base:
150 kg (330 lb)

Power transmission:
V Band, Type A

Max journal diameter:
160 mm (6.2 in)

Max SBS displacement:
35 mm (1.3 in)

Lubrication:
Manual

Precision:
±0.01 mm/s

Accelerometer Sensitivity:
100 mV/g

Residual unbalance:
2 gr·mm/ 100kg rotor

Min/Max symmetric load:
1 kg (2.2 lb)
150 kg (330 lb)

Min/Max distance between supports:
190 mm (7.4 in)
1790 mm (70.4 in)

Motor features:
2.24 kW (3 hp)
220 / 440 V, 3 phases,
4 poles

Speed driver (VFD):
Included

The EI-500 is ideal for all types of rotating parts up to 500kg as rollers, motor rotors, crankshafts, mills and many others.

The floating bases of the EI-500 are manufactured **tough** and **light** to reduce mechanical inertia.



TECHNICAL SPECIFICATIONS

Dimensions:
2020 x 1007x 1275 mm

Sequential unbalance reduction:
95%

Weight:
302 kg (666 lb)

Max rotor diameter:
670 mm (26 in)

Max weight per base:
250 kg (550 lb)

Power transmission:
V Band, Type A

Max journal diameter:
160 mm (6.2 in)

Max SBS displacement:
35 mm (1.3 in)

Lubrication:
Manual

Precision:
±0.01 mm/s

Accelerometer Sensitivity:
100 mV/g

Residual unbalance:
2 gr·mm/ 100kg rotor

Min/Max symmetric load:
1 kg (2.2 lb)
250 kg (550 lb)

Min/Max distance between supports:
190 mm (7.4 in)
1790 mm (70.4 in)

Motor features:
2.24 kW (3 hp)
220 / 440 V, 3 phases,
4 poles

Speed driver (VFD):
Included

The EI-1000 is ideal for all types of rotating parts up to 1000kg as rollers, motor rotors, crankshafts, mills and many others.

The floating bases of the EI-1000 are manufactured **tough** and **light** to reduce mechanical inertia.



TECHNICAL SPECIFICATIONS

Dimensions:
2020 x 1382 x 1363 mm

Sequential unbalance reduction:
95%

Weight:
445 kg (982 lb)

Max rotor diameter:
1650 mm (65 in)

Max weight per base:
500 kg (1100 in)

Power transmission:
Flat belt

Max journal diameter:
225 mm (8.8 in)

Max SBS displacement:
22 mm (0.9 in)

Lubrication:
Manual

Precision:
±0.01 mm/s

Accelerometer Sensitivity:
100 mV/g

Residual unbalance:
2 gr·mm/ 100kg rotor

Min/Max symmetric load:
3 kg (6.6 lb)
500 kg (2200 lb)

Min/Max distance between supports:
250 mm (9.9 in)
1524 mm (60 in)

Motor features:
3.73 kW (5 hp)
220 / 440 V, 3 phases,
4 poles

Speed driver (VFD):
Included

The EI-2000 is ideal for all types of rotating parts up to 2000kg as rollers, motor rotors, crankshafts, mills and many others.

The floating bases of the EI-2000 are manufactured **tough** and **light** to reduce mechanical inertia.



TECHNICAL SPECIFICATIONS

Dimensions:
2020 x 1382 x 1363 mm

Sequential unbalance reduction:
95%

Weight:
445 kg (982 lb)

Max rotor diameter:
1650 mm (65 in)

Max weight per base:
1000 kg (2200 in)

Power transmission:
Flat belt

Max journal diameter:
225 mm (8.8 in)

Max SBS displacement:
22 mm (0.9 in)

Lubrication:
Manual

Precision:
±0.01 mm/s

Accelerometer Sensitivity:
100 mV/g

Residual unbalance:
2 gr·mm/ 100kg rotor

Min/Max symmetric load:
5 kg (11 lb)
1000 kg (2200 lb)

Min/Max distance between supports:
250 mm (9.9 in)
1524 mm (60 in)

Motor features:
5.59 kW (7.5 hp)
220 / 440 V, 3 phases,
4 poles

Speed driver (VFD):
Included

The EI-3000 is ideal for all types of rotating parts up to 3000kg as rollers, motor rotors, crankshafts, mills and many others.

The floating bases of the EI-3000 are manufactured **tough** and **light** to reduce mechanical inertia.



TECHNICAL SPECIFICATIONS

Dimensions:
2020 x 1382 x 1363 mm

Sequential unbalance reduction:
95%

Weight:
480 kg (1058 lb)

Max rotor diameter:
1650 mm (65 in)

Max weight per base:
1500 kg (3307 lb)

Power transmission:
Flat belt

Max journal diameter:
225 mm (8.8 in)

Max SBS displacement:
22 mm (0.9 in)

Lubrication:
Manual

Precision:
±0.01 mm/s

Accelerometer Sensitivity:
100 mV/g

Residual unbalance:
2 gr·mm/ 100kg rotor

Min/Max symmetric load:
5 kg (11 lb)
1500 kg (3307 lb)

Min/Max distance between supports:
250 mm (9.9 in)
1524 mm (60 in)

Motor features:
5.59 kW (7.5 hp)
220 / 440 V, 3 phases,
4 poles

Speed driver (VFD):
Included

The EI-4500 is ideal for all types of rotating parts up to 4500kg as rollers, motor rotors, crankshafts, mills and many others.

The floating bases of the EI-4500 are manufactured **tough** and **light** to reduce mechanical inertia.



TECHNICAL SPECIFICATIONS

Dimensions:
3000 x 1750 x 1325 mm

Sequential unbalance reduction:
95%

Weight:
520 kg (1146lb)

Max rotor diameter:
1800 mm (71 in)

Max weight per base:
2250 kg (4960 lb)

Power transmission:
Flat belt

Max journal diameter:
280 mm (11 in)

Max SBS displacement:
40 mm (1.5 in)

Lubrication:
Manual

Precision:
±0.01 mm/s

Accelerometer Sensitivity:
100 mV/g

Residual unbalance:
2 gr·mm/ 100kg rotor

Min/Max symmetric load:
100 kg (220.4lb)
2250 kg (4961 lb)

Min/Max distance between supports:
200 mm (7.8 in)
-- mm (-- in)

Motor features:
7.4 kW (10 hp)
220 / 440 V, 3 phases,
4 poles

Speed driver (VFD):
Included

The EI-6000 is ideal for all types of rotating parts up to 4500kg as rollers, motor rotors, crankshafts, mills and many others.

The floating bases of the EI-6000 are manufactured **tough** and **light** to reduce mechanical inertia.



TECHNICAL SPECIFICATIONS

Dimensions:
3000 x 1750 x 1325 mm

Sequential unbalance reduction:
95%

Weight:
520 kg (1146lb)

Max rotor diameter:
1800 mm (71 in)

Max weight per base:
3000 kg (6613 lb)

Power transmission:
Flat belt

Max journal diameter:
343 mm (11 in)

Max SBS displacement:
38 mm (3.1 in)

Lubrication:
Manual

Precision:
±0.01 mm/s

Accelerometer Sensitivity:
100 mV/g

Residual unbalance:
2 gr·mm/ 100kg rotor

Min/Max symmetric load:
150 kg (330 lb)
3000 kg (6613 lb)

Min/Max distance between supports:
500 mm (7.8 in)
-- mm (-- in)

Motor features:
7.4 kW (11 HP)
220 / 440 V, 3 phases,
4 poles

Speed driver (VFD):
Included

The EI-10T is ideal for all types of rotating parts up to 10000kg as rollers, motor rotors, crankshafts, mills and many others.

The floating bases of the EI-10T are manufactured **tough** and **light** to reduce mechanical inertia.



TECHNICAL SPECIFICATIONS

Dimensions: 4095 x 1566 x 2258 mm	Sequential unbalance reduction: 95%	Weight: 1811 kg (3992 lb)
Max rotor diameter: ~1750 mm (68.9 in)	Max weight per base: 5000 kg (11023 lb)	Power transmission: Flat belt
Max journal diameter: 520 mm (20.5 in)	Max SBS displacement: 140 mm (5.5 in)	Lubrication: Manual
Precision: ±0.01 mm/s	Accelerometer Sensitivity: 100 mV/g	Residual unbalance: 2 gr·mm/ 100kg rotor
Min/Max symmetric load: 500 kg (1102 b) 5000 kg (11023 lb)	Min/Max distance between supports: 700 mm (27.56 in) --- mm (--- in)	Motor features: 11.1 kW (15 hp) 220 / 440 V, 3 phases, 4 poles
	Speed driver (VFD): Included	

ERBESSD INSTRUMENTS®

WORLDWIDE toll-free:

+1-877-223-4606

ENGLISH:

Sales, Service & Support Engineer

+1-518-874-2700

info@erbessdreliability.com

SPANISH & FRENCH:

Sales, Service & Support Engineer

+52 (55) 6280-7654

info@erbessd-instruments.com

BUY ONLINE

www.erbessd-instruments.com

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EI-DS2021.0724.15