



Machine Specifications

1.	Maximum weight:	10,000 lbs.	5545 Kg
2.	Maximum weight per support:	5,000 lbs.	2772 Kg
3.	Maximum sensitivity:		
		120 RPM	0.1 oz.-in.
		3000 RPM	.01 oz.-in.
4.	Instrumentation speed range:	60–7200 RPM	72 gram-mm
5.	Unbalance reduction ratio:	up to 95 %	7.2 gram-mm
6.	Minimum residual unbalance as expressed in inches of mass displacement achievable under ideal conditions with a test rotor:		
		.000010 in.	0.00025 mm
7.	Maximum diameter over bed:	75 in.	1905 mm
8.	Maximum distance between supports:		
	Standard bed length	96 in.	2438 mm
	Extended length	204 in.	5181 mm
9.	Minimum distance between supports:	20 in.	508 mm
10.	Journal diameters accomodated:	0.5 – 12 in.	12 - 25 mm
11.	Drive type:	Overslung	
12.	Belt width accomodated:	½ in. – 1.5 in.	12 -40 mm
13.	Motor type:	3 Phase AC 10 HP	
14.	Motor drive:	AC inverter	
15.	Power Supply:	230/460 V	
16.	Brake:	Dynamic	

BalanStar Corporation

5030 West Lake Street • Chicago, IL 60644 USA
PH 773-261-5034 • Fax 773-261-5030
www.balanstar.com



General Specifications

- | | | |
|----|---|--|
| 1. | Instrumentation sensitivity: | 0.000010 oz.in. |
| 2. | Maximum sensitivity: | 120 RPM 0.01 oz.in.
3000 RPM 0.0001 oz.in.
7200 RPM 0.000010 oz.in. |
| 3. | Minimum Unbalance expressed in inches of mass displacement achievable under ideal conditions with a test rotor: | .000010 in. |
| 4. | Instrumentation speed range: | 60–7200 RPM |
| 5. | Unbalance reduction ratio: | up to 95 % |
| 6. | Maximum diameter allowed: | 100 in. |
| 7. | Maximum plane separation allowed: | 200 in. |
| 8. | Minimum plane separation allowed: | 0.1 in. |
| 9. | Single Plane and Two Plane options | |

Electronic Data

- | | | |
|-----|---------------------------|--------------------------------------|
| 1. | Operating System | Windows 7 Pro |
| 2. | Processor | Intel Celeron Dual Core 2.8 GHz |
| 3. | Main Motherboard | ASUS P8 PC ATX form factor |
| 4. | Hard Drive | 64 GB Solid State Hard Drive |
| 5. | Digital Acquisition Card | Proprietary to BalanStar Corporation |
| 6. | Analog To Digital Chipset | AD677JN |
| 7. | Linear Power Supply | Low Ripple +12 V, -12 V, +5 V |
| 8. | Computer Power Supply | 250W ATX |
| 9. | Power Source | 120 /230 VAC 50 / 60 Hz |
| 10. | Power Requirement | 1.5 Amp |

BALANSTAR CORPORATION

5030 West Lake Street • Chicago, IL 60644 USA

PH 773-261-5034 • Fax 773-261-5030

www.balanstar.com

Instrumentation Features

1. Two Plane - Static / Couple (Force) - Single Plane balancing modes
4. Electronic Zeroing: electronic compensator of the initial unbalance of a rotor to simplify checking of machine calibration. Also known as Single Compensation.
5. Tooling Compensation : electronic double compensator for minor tooling errors to eliminate requirement for mechanically biasing the tooling.
6. Keyway Compensation is a standard feature.
7. ISO-1940 Balance Tolerance Calculator is a standard feature.
8. Segment balancing is a standard feature
9. Unbalance units selectable: ounces, grams, kg, Newtons, inches, mm, cm, m.
10. Location of unbalance will be displayed in degrees of rotation.
11. Remote Angle feature uses a rotary encoder to display the real-time part location in degrees of rotation.
12. Rotor Memories: Save up to 250 part setups on solid state disk drive.
13. Print data option and parallel printer port or USB are standard features.
14. RS-232 / USB data output package optional. This option saves data runs on the UBC2 hard drive which can then be downloaded through standard ethernet connections to the motherboard.
15. Empirical Calibration Capability (Customized Setups): Our SBX includes the capability to provide unique rotor specific calibrations for rotors and tooling that require special setup parameters. The electronic flags these unique calibrations both on the main measuring screen and in the rotor memory screen.

BALANSTAR CORPORATION

5030 West Lake Street • Chicago, IL 60644 USA

PH 773-261-5034 • Fax 773-261-5030

www.balanstar.com