BALANSTAR® CORPORATION

HB5000 BALANCING MACHINE

Machine Specifications

1.	Maximum weight:	5000 lbs.	2772 Kg
2.	Maximum weight per support:	2500 lbs.	1386 Kg
3.	Maximum sensitivity:		
	120 RPM	0.1 oz.-in.	72 gram-mm
	1500 RPM	.01 oz.-in.	7.2 gram-mm
4.	Instrumentation speed range:	60–7200 RPM	
5.	Unbalance reduction ratio:	up to 95 %	
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	

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HBX WINDOWS® SERIES

BALANCING MACHINE COMPUTER ELECTRONICS

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 Aquisition Card	Propriotory 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

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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.

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