

DIAMECH 2000

Vibration Diagnostic and Balancing Machines



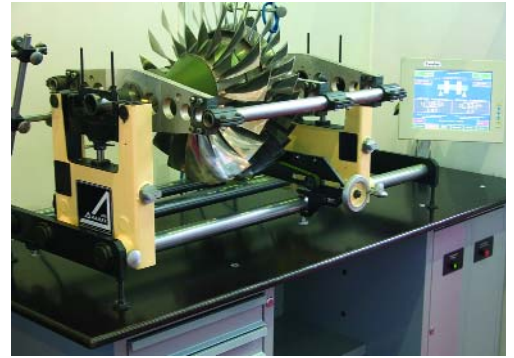
UNIVERSAL SOFT-BEARING BALANCING MACHINES

Precision balancing machines for all types of rotors with masses from 5 grams up to 90 tons



FEATURES

- Highest balance sensitivity, 0.05 g-mm/kg
- Anti-friction bearing work supports eliminate time-consuming alignment procedures. Bearings have a flat, wide-contact surface to carry rotors without damaging journals,
- Balance at lower and safer speeds,
- The machine installed without foundations, no expensive construction of special concrete foundations required,
- Transportable,
- Special screw-jacks for loading heavy rotors on the balancing machine,
- Automatic additional turn of a rotor on a required angle,
- Touch screen balancing computer, with all accessories needed for balancing,
- The highest quality of manufacturing



Over the period from 1994 till 2007 the DIAMECH 2000 company designed and developed large-scale production of series BM and B general-purpose balancing machines.

More than 600 machines of 15 sizes allowing to perform balancing of rotors of any configuration with masses from 5 grams to 90 tons are successfully operated at hundreds of enterprises of different industries in Russia and abroad.

Our customers – leading enterprises of Russia, Gasprom, Transneft, Rosenergoatom, RAO UES of Russia, all oil refining factories of Russia, Russian Railways, leading aero-engines manufacturers, metal works and others.

Premium of the Russian Government in the field of Science and Technique

STANDARD SPECIFICATION

	BM-010-C	BM-010	BM-050	BM-100	BM-300	BM-1000	BM-3000	BM-5000	BM-8000	BM-10000	BM-20000
Max. rotor weight, kg	3	8	50	100	300	1000	3000	5000	8000	10000	20000
Min. rotor weight, kg	0,005	0,03	0,5	1	3	10	30	50	80	100	1000
Max. rotor diameter, mm	170	170	700	1800	1800	2000	2300	2300	2600	2600	2500
Shaft journal diameter range, mm	2...50	4...60	20...200	12...230	12...230	15...280	20...380	20...400	25...420	25...420	90...350
Distance between the centers of rotor bearing journals, mm											
min	10	40	120	180	180	230	350	350	380	380	1000
max	410	410	1060	1410	1410	2350	2630	2630	5600	5600	12000
Rotor support	Rollers & V-blocks										
Sensitivity, g-mm/kg	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.2
Balancing speed, rev/min	450 >	450 >	350 >	350 >	350 >	300 >	300 >	300 >	300 >	300 >	200 >
Electric drive type	Alternating current with adjustable frequency										
Electric drive power, kW	0.075	0.075	1.1	1.5	1.5	2.2	5.5	11	15	15	20
Type of drive	Belt			Belt (standard) / Belt + End (option)							
Speed sensor	Laser										
Instrumentation	Touch screen balancing computer, with all accessories needed for balancing										
Foundation requirements	Tabletop			Standard shop floor for load carrying capacity - No additional concrete or steel base required							
Base length, mm	500	500	1280	1600	1600	2700	3000	3000	6000	6000	14000
Machine weight, kg	30	30	80	450	500	1100	1500	1700	3000	4000	8500

Specifications are for standard machines; modifications are available to meet specific requirements.

DIAMECH 2000

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