

Test Laboratory for Balancing Technology

Dated: 10.07.2026

List of testing procedures offered within the scope of accreditation

Department	Standard or Test method / Issue date	Title of the Standard or test method	Test Range
Standardized method [Flex A]			
Machinery	ISO 2954 2012-04	Mechanical Vibration of rotating and reciprocating machinery - Requirements for Instruments for measuring Vibration severity	Vibration Velocity
Machinery	ISO 21940-21 2022-11 2012-07	Mechanical Vibration - Rotor balancing - Part 21: Description and evaluation of balancing machines	Geometry, Mass, Unbalance, Unbalance Measurement System
Machinery	DIN ISO 21940-21 Supplement 1 2020-11	Mechanical Vibration - Rotor balancing - Part 21: Description and evaluation of balancing machines; Supplement 1: Statistical quality capability Parameters for assessment of the unbalance measuring process	Unbalance Measurement System
Machinery	SAE AS 8617 2020-08	Balancing Machines – Verification Test Requirements	Unbalance Measurement System
Machinery	SAE ARP 4048 2020-05	Balancing machines – Description and evaluation Horizontal, two-plane, hard-bearing type for gas turbine rotors	Unbalance Measurement System
Machinery	SAE ARP 4050 2017-02	Balancing machines – Description and evaluation Vertical, two-plane, hard-bearing type for gas turbine rotors	Unbalance Measurement System
Standards	SAE ARP 4162 2017-03 2011-07	Balancing machine proving rotors	Geometry, Mass, Unbalance,

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Machinery	SAE ARP 5323 2017-02	Balancing machines – Description and evaluation Vertical, single-plane, hard-bearing type for gas turbine rotors	Unbalance Measurement System
Machinery	SAE ARP 6217 2020-05	Balancing machines – Description and evaluation Vertical, single-plane, non-rotating type for gas turbine rotors	Unbalance Measurement System
In house method			
Standards	ISR BS 100 2019-01	Working Standards for balancing technology: Determination of geometric properties	Geometry
Standards	ISR BS 200 2019-01	Working Standards for balancing technology: Determination of mass	Mass
Standards	ISR BS 300 2025-04	Working Standards for balancing technology: Determination of unbalance properties	Unbalance
Machinery	ISR BS 400 2019-01	Unbalance measuring and spin tester systems: Determination of rotational speed	Rotation Speed
Machinery	ISR BS 500 2025-04	Machines and equipment for balancing technology: Determination of the Vibration velocity	Vibration Velocity
Machinery	ISR BS 600 2023-10	Machines and equipment for balancing technology: Test of the unbalance measuring system	Unbalance Measurement System

Abbreviations used:

DIN	Deutsches Institut für Normung e.V. - German Institute for Standardization
EN	European Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization-
SAE ARP	Society of Automotive Engineers Aerospace Recommended Practice
SAE AS	Society of Automotive Engineers Aerospace Standard
ISR BS	International Schenck RoTec Balancing Standard