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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 6444-2008

Replacing GB/T 6444-1995

Mechanical vibration -- Balancing -- Vocabulary
(English Translation)

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Foreword

This standard is identical with ISO 1925:2001 "Mechanical vibration - Balancing vocabulary" (English Fourth Edition).

This standard is equivalent translation ISO 1925:2001 (English Fourth Edition).

This standard (or in this section) and ISO 1925:2001 in comparison, made the following editorial changes.

- The "this International Standard" by "this standard";
- Re-write the foreword, instead of the ISO 1925:2001 Foreword;
- According to the provisions of GB/T 1.1-2000, the number of standard terms to re-edit it;
- Modify the "Normative references" a chapter of the introductory phrase;
- To ISO 1925:2001 and other international standards referenced with equivalent has been adopted as a standard in place of the corresponding international standard;
- Deleted 5.1 Note 3;
- Added "Reference plane" in the term "balance deviation" in.

This standard is GB/T 6444-1995 "Mechanical vibration - Balancing the term" amendments.

This standard compared with GB/T 6444-1995, the main changes are as follows.

--- Deleted the term "center of gravity", "unbalanced force", "synthetic unbalanced force", "unbalanced torque", "synthetic unbalanced torque", "internal forces Moment", "" balancing machine precision "and" influence coefficient method "and its definition (caused by the residual imbalance);

--- Increasing the term "semi-button", "synthetic unbalanced", "synthetic pitch (even) unbalanced," "balancing machine accuracy" and its definition;

--- The term "assembly" was changed to the term "fitting", the term "control by the initial imbalance" was changed to the term "controlled initial Unbalanced ", the term " centrifugal type balancing machine "was changed to the term" centrifugal balancing machine ";

--- The term "single-sided (static) balancing machine" was changed to the term "one-sided balancing machine," and establishing priority term, and the term "static balance machine" Established as the allowable term;

--- The term "action (double-sided) balancing machines" was changed to the term "double-balanced machine," and establishing priorities for the term, and the term "balancing machines" Established as the allowable term;

--- The term "hard-bearing (force measuring below resonance) balancing machines" was changed to the term "hard bearing balancing machine," and establishing priority term, while the term "load balancing machine" and "lower than the resonance balancing machine" was established as the allowable term;

--- The term "soft support (higher than the resonance) balancing machines" was changed to the term "soft bearing balancing machine," and establishing priority term, while the term "Higher than the resonance balancing machine" was established as the allowable term;

--- The term "compensation (zero force) balancing machines" was changed to the term "compensating balance machine," and establishing priority term, but the term "zero - Force balancing machine "was established as the allowable term;

--- Added "References." Since the implementation of this standard replaces GB/T 6444-1995.

Appendix A of this standard is an informative annex.

This standard by the national mechanical vibration, shock and condition monitoring Standardization Technical Committee and centralized.

1 Scope

This standard establishes balancing machines and balancing technology areas related to commonly used terms and their definitions.

This standard applies to balancing technology and balancing machines, for the development of relevant standards, translated and published all relevant books and literature as well as domestic and foreign each Technology exchange forms of use.

General terminology of vibration and shock is given by GB/T 2298.

Note: The definition of terms that appear in boldface otherwise defined in this standard.

Appendix A gives a balancing machine terminology Illustrated Guide.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

Describe the inspection and evaluation of GB/T 4201-2006 balancing machine (ISO 2953:1999, Mechanicalvibration-Balancing machine-Descriptionandevaluation, IDT) GB/T 6557-1999 Method and criteria for the mechanical balancing of flexible rotors (ISO 11342:1998, IDT)

3 Mechanics

Point and having the following properties related to the object. it is assumed that quality is equal to the quality of a given material particle system on this point, it for any planar first moment of material equal to the corresponding system of the first moment.

[ISO 2041:1990,1.31] 3.2

Note 3:

$\int x_i x_j = \text{integral}$

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Where.

x_0 i, j is the Cartesian coordinates x_0 .

Note 4: If the point of the object centroid (3.1), the shaft and the moments of inertia are called the center of the main shaft and the central principal moments of inertia.

Note 5: In equilibrium, the term "main axis of inertia" is usually used to indicate this in three axes and (rotor) axis (4.7) coincides with the center of the nearest main inertia Axis, sometimes referred to as mass balance shaft or axis.

GB/T 6444-2008/ISO 1925:2001