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AMERICAN NATIONAL STANDARD

ABMA Standard





Rolling bearings — Bearing Parts – Balls for Rolling Bearings

Sponsor

American Bearing Manufacturers Association

ANSI/ABMA/ISO 3290:2000-R2008 (Identical Adoption of ISO 3290:1998

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ABMA FOREWORD (This foreword is not part of ANSI/ABMA/ISO 3290:2000 R2008.)

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The text is approved as an International Standard if a two-thirds majority of the P (participating)members of the TC/SC are in favor and not more than one-quarter of the total number of votes cast are negative.

International Standard 3290:1998 was prepared by Technical Committee ISO/TC 4, Rolling Bearings.

This standard was processed and approved for submittal to ANSI for national adoption by Accredited Standards Committee B3. Committee approval of the national adoption of this standard does not necessarily mean that all committee members voted for its adoption.

Suggestions for the improvement of this standard gained through experience with its use will be welcomed. These suggestions should be sent to:

ASC B3 Secretariat American Bearing Manufacturers Association 2025 M Street, N.W., Suite 800 Washington, DC 20036 This is a preview of "ANSI/ABMA/ISO 3290-2...". Click here to purchase the full version from the ANSI store.

Rolling bearings – Balls – Dimensions and tolerances

Secretariat American Bearing Manufacturers Association

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Draft International Standards adopted by the technical committee are circulated to member bodies for voting. Publication as an International Standard requires approval of at least 75% of the member bodies casting a vote.

International Standard 3290 was prepared by Technical Committee ISO/TC 4, *Rolling bearings*.

This second edition cancels and replaces the first edition (ISO 3290:1975), clauses 2 and 3, the tables and Annex B of which have been technically revised.

This standard was processed and approved for submittal to ANSI by Accredited Standards Committee B3 on Ball and Roller Bearings. Committee approval of this standard does not necessarily imply that all committee members voted for its approval.

Suggestions for the improvement of this standard gained through experience with its use will be welcomed. These should be sent to: American Bearing Manufacturers Association Secretariat, ANSI ASC B3, 1200 19th Street, NW, Suite 300, Washington DC 20036-2422.

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Rolling bearings — Balls — Dimensions and tolerances

1 Scope

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This International Standard specifies requirements for finished steel balls for rolling bearings.

2 Normative references

The following standards contain provisions, which through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 4288:1996, Geometrical Product Specifications (GPS) — Surface texture: Profile method — Rules and procedures for the assessment of surface texture.

ISO 4291:1985, Methods for the assessment of departure from roundness — Measurement of variations in radius.

3 Definitions

For the purposes of this International Standard the following definitions apply.

3.1 nominal ball diameter, Dw: diameter value which is used for the general identification of a ball size.

3.2 single ball diameter, D_{ws}: distance between two parallel planes tangential to the actual surface of a ball.

3.3 mean ball diameter, Durn: arithmetical mean of the largest and the smallest of the single diameters of a ball.

3.4 variation of ball diameter, V_{Dws}: difference between the largest and the smallest of the single diameters of a ball.

3.5 surface irregularities and form parameters: Various types of deviation from the perfect spherical ball surface, uniformly distributed and repeated around the ball surface.

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NOTES

- The deviations to which limits can be attributed are:
- deviation from spherical form;
- waviness;
- surface roughness.