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Rolling bearings — Symbols for quantities

Roulements — Symboles relatifs aux grandeurs



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Contents

Page

Foreword.....	iv
1 Scope	1
2 Normative references	1
3 Symbols for quantities	1
4 Classification of symbols for quantities	2
5 Definitions of physical quantities	3
6 Use of square brackets	3
7 Presentation of symbols for physical quantities.....	3
8 Index.....	16

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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

Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 15241 was prepared by Technical Committee ISO/TC 4, *Rolling bearings*.

Rolling bearings — Symbols for quantities

1 Scope

This International Standard defines the presentation of symbols for physical quantities — dimensions, dimensional tolerances, accuracy, load ratings, life, etc. — in the field of rolling bearings. These symbols are primarily intended for use in ISO Standards and ISO documents relating to rolling bearings, but they are also suitable for use in other printed materials such as catalogues, drawings and pamphlets.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 31-0:1992, *Quantities and units — Part 0: General principles*

ISO 31-11:1992, *Quantities and units — Part 11: Mathematical signs and symbols for use in the physical sciences and technology*

ISO 281:1990/Amd. 2:2000, *Rolling bearings — Dynamic load ratings and rating life — Amendment 2: Life modification factor a_{XYZ}*

ISO 1132-1:2000, *Rolling bearings — Tolerances — Part 1: Terms and definitions*

ISO 5593:1997, *Rolling bearings — Vocabulary*

3 Symbols for quantities

3.1 Principles of symbol system

The following principles have been applied in this International Standard.

- Principles of the symbol system are generally in accordance with ISO 31-0 and ISO 31-11.
- Symbols for physical quantities used in the field of rolling bearings are defined as quantities in physics. Symbols for dimensionless values such as coefficients, factors and parameters are thus also involved. Mathematical variables are also included, e.g. probability (n).
- Subscripts of subscripts should not be adopted; e.g. the subscript letters “ d_{mp} ” of $V_{d_{mp}}$ should be printed in the same point size. The form $V_{d_{mp}}$ should not be used (see Figure 1).
- Superscripts should not be used.