
Rolling bearings and spherical plain bearings — Search structure for electronic media — Characteristics and performance criteria identified by property vocabulary

Roulements et rotules lisses — Structure de recherche pour supports électroniques — Caractéristiques et critères de performance identifiés par le vocabulaire des propriétés



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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 4, *Rolling bearings*.

This second edition cancels and replaces the first edition (ISO 21107:2004), which has been technically revised to be consistent with ISO/TS 23768-1.

Introduction

Electronic media are used more and more when purchasing and selling products. This also applies to the rolling bearing industry, where it can be expected that a large proportion of sales will be processed via electronic media.

One potential problem when ordering bearings is that designations, especially designations for special executions and variants, differ from one bearing supplier to another. For the electronic media business there is, therefore, a need for customers and distributors to have available a system that makes it possible to identify a bearing quickly and easily when the bearing designation is not known.

This can be achieved using a computerized search structure. The user responds to specified simple questions on a computer screen about visual bearing components (dimensions, number of rolling element rows, cage, etc.) and, if needed, about performance criteria and other characteristics. Based on these input values, the computer provides possible bearing designations and other information.

In order to facilitate programming and provide the user with the same and consistent input vocabulary, independent of supplier, this International Standard provides a standardized search structure for electronic media with a vocabulary for identifying bearings, bearing components and accessories based on ISO 5593 and other ISO/TC 4 International Standards.

When creating their own search structures, some bearing manufacturers and/or distributors may decide they have a need to customize certain properties or value domains in order to refine the selection of the possible bearing designation(s) that will meet the purchaser's requirements. If this is done, then, where possible, it is recommended that the terminology of ISO 5593 and other appropriate ISO documents for rolling bearings be used.

SI units are used in ISO International Standards, but it is recognized that the properties in this document can also be used for inch dimension products.

Rolling bearings and spherical plain bearings — Search structure for electronic media — Characteristics and performance criteria identified by property vocabulary

1 Scope

This International Standard establishes a search structure and properties vocabulary for identifying rolling bearings, bearing housings, accessories and spherical plain bearings primarily with the aid of electronic media, such as the Internet.

The methodology for using this International Standard in search programs is not included.

This International Standard does not establish a search structure and an attribute vocabulary for identifying linear motion rolling bearings.

NOTE A reference dictionary for all rolling bearings in this document is defined in ISO/TS 23768-1. It contains definitions of bearing classes, data element types of descriptive properties and domains of values.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the reference document (including any amendments) applies.

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

ISO 5593, *Rolling bearings — Vocabulary*

ISO 6811, *Spherical plain bearings — Vocabulary*

3 Terms and definitions

For the purposes of this document, the terms and definitions in ISO 1132-1, ISO 5593, ISO 6811 and the following apply.

3.1

non-leaf characterization class

characterization class that is further subdivided into more precise characterization classes

[SOURCE: ISO/TS 23768-1:2011, 3.1.24]

3.2

leaf characterization class

characterization class that is not further subdivided into more precise characterization classes

[SOURCE: ISO/TS 23768-1:2011, 3.1.22]

3.3

property

characteristic or feature used to identify a product in detail

Note 1 to entry: Product and component designations used in ISO/TC 4 International Standards have been used throughout this International Standard as the preferred choice.