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

Roulements et rotules lisses — Structure de recherche pour supports électroniques — Caractéristiques et critères de performance identifiés par un vocabulaire particulier



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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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 document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 21107 was prepared by Technical committee ISO/TC 4, Rolling bearings.

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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 pearing 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 attributes or attribute options 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 attributes 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 attribute vocabulary

1 Scope

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

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

2 Normative references

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

ISO 199, Rolling bearings — Thrust bearings — Tolerances

ISO 492, Rolling bearings — Radial bearings — Tolerances

ISO 3290, Rolling bearings — Balls — Dimensions and tolerances

ISO 5593, Rolling bearings — Vocabulary

ISO 5753, Rolling bearings — Radial internal clearance

3 Terms and definitions

For the purposes of this document, the terms and definitions in ISO 199 ISO 492, ISO 3290, ISO 5593, ISO 5753 and the following apply.

3.1

noun

highest level of classification

3.2

modifier

sub-classification of a noun

3.3

attribute

characteristic or feature used to identify a product in detail

NOTE Product and component designations used in ISO/TC 4 International Standards have been used throughout this International Standard as the preferred choice.