INTERNATIONAL STANDARD

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Rolling bearings — Accessories for sleeve type linear ball bearings —

Part 2: Boundary dimensions and tolerances for series 5

Roulements — Accessoires pour douilles à billes linéaires — Partie 2: Dimensions d'encombrement et tolérances pour la série 5



Reference number ISO 13012-2:2009(E)

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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 Maison 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 13012-2 was prepared by Technical Complete ISO/TC 4, Rolling bearings, Subcommittee SC 11, Linear motion rolling bearings.

ISO 13012 consists of the following parts, under the general title *Rolling bearings* — Accessories for sleeve type linear ball bearings:

Part 1: Boundary dimensions and tolerances for series 1 and 3

- Part 2: Boundary dimensions and tolerances for series 5 % Conner the tolerance of the series 5 % Conner the tolerance of the series 5 % Conner the tolerance of the series 5 % Conner tolerance of the series of the seri

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The use of sleeve type linear ball bearings can be facilitated by the selection of bearing housings, shafts, shaft support blocks and shaft support rails. These items, referred to as accessories, can aid in the application of the sleeve type linear ball bearings to achieve the desired criteria of smooth, accurate, low-friction linear

The appropriate spection of bearing housing type, shaft and shaft support should be established between the

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Rolling bearings — Accessories for sleeve type linear ball bearings —

Part 2: Boundary dimensions and tolerances for series 5

1 Scope

This part of ISO 13012 specifies the boundary dimensions, other relevant dimensions and their tolerances of accessories for sleeve type linear ball bearings which are specified in ISO 10285.

This part of ISO 13012 applies to

housings -

closed and adjustable flangeless housings for series 5 sleeve type linear ball bearings,

open and open adjustable flangeless housings for series 5 sleeve type linear ball bearings;

shaft support rails -

standard height shaft support rails for series 5 speve type linear ball bearings;

shaft support blocks —

flanged shaft support blocks for series 5 sleeve type linear ball bearings;

solid and tubular shafts for series 5 sleeve type linear ball bearings.

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 referenced document (including any amendments) applies.

ISO 286-2, ISO system of limits and fits — Part 2: Tables of standard tolerance grades and limit deviations for holes and shafts

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

ISO 1302, Geometrical Product Specifications (GPS) — Indications of surface texture in technical product documentation

ISO 3754, Steel — Determination of effective depth of hardening after flame or induction hardening

ISO 5593, Rolling bearings — Vocabulary

ISO 10285:2007, Rolling bearings — Sleeve type linear ball bearings — Boundary dimensions and tolerances

ISO 15241, Rolling bearings — Symbols for quantities

ISO 24393, Rolling bearings — Linear motion rolling bearings — Vocabulary