

Nederlandse norm

NEN-ISO 464

(en)

Rollagers - Radiale lagers met een lokaliserende borgring - Afmetingen en geometrische toleranties (GPS) (ISO 464:2015, IDT)

Rolling bearings - Radial bearings with locating snap ring - Dimensions, geometrical product specifications (GPS) and tolerance values (ISO 464:2015, IDT)

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Als Nederlandse norm is aanvaard:

- ISO 464:2015, IDT

Preview

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Preview

**Rolling bearings — Radial bearings
with locating snap ring — Dimensions,
geometrical product specifications
(GPS) and tolerance values**

*Roulements — Roulements radiaux à segment d'arrêt — Dimensions,
spécification géométrique des produits (GPS) et valeurs de tolérance*



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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).

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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*, Subcommittee SC 4, *Tolerances, tolerance definitions and symbols (including GPS)*.

This third edition cancels and replaces the second edition (ISO 464:1995), of which it constitutes a technical revision with the following changes:

- implementation of Geometrical Product Specifications (GPS),
- different presentation of the tables.

Introduction

This International Standard is a machine element geometry standard as defined in the geometrical product specification (GPS) system as presented in the matrix model of ISO 14638[7].

The fundamental rules of ISO/GPS given in ISO 8015[3] apply to this International Standard and the default decision rules given in ISO 14253-1[5] apply to the specifications made in accordance with this International Standard, unless otherwise indicated.

The connection between functional requirements, measuring technique and measuring uncertainty is always intended to be considered. The traditionally used measuring technique is described in ISO 1132-2[2]. For measurement uncertainty it is intended that ISO 14253-2[6] should be considered.

For small radial bearings, when $D < 30$ mm, manufacturing a snap ring groove might distort the raceways. As such, it is recommended to use bearings with a flanged outer ring instead. Information about snap ring grooves and snap rings for these small bearings can be found in [Annexes A](#) and [B](#).

[Annexes C](#) and [D](#) contain informative information on snap ring material and an example of correct application.

[Annex E](#) contains an example of a real drawing indication of a snap ring groove.

Voorbereid
Preview

Rolling bearings — Radial bearings with locating snap ring — Dimensions, geometrical product specifications (GPS) and tolerance values

1 Scope

This International Standard specifies the snap ring groove dimensions and tolerance values, chamfer dimensions on the snap ring groove side of the outer ring, and the snap ring dimensions and tolerance values for radial bearings in the dimension series 18 and 19 and the diameter series 0, 2, 3, and 4 (except dimension series 00, 82, and 83), as specified in ISO 15^[1].

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 referenced document (including any amendments) applies.

ISO 582, *Rolling bearings — Chamfer dimensions — Maximum values*

ISO 1101, *Geometrical product specifications (GPS) — Geometrical tolerancing — Tolerances of form, orientation, location and run-out*

ISO 5593, *Rolling bearings — Vocabulary*

ISO 14405-1, *Geometrical product specifications (GPS) — Dimensional tolerancing — Part 1: Linear sizes*

ISO 15241, *Rolling bearings — Symbols for physical quantities*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 1101, ISO 5593 and ISO 14405-1 apply.

4 Symbols

See [Figures 1](#) to [3](#) and [Table 1](#).

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