

BS ISO 464:2015



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

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National foreword

This British Standard is the UK implementation of ISO 464:2015. It supersedes BS ISO 464:1995 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee MCE/7, Rolling bearings.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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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).

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).

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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.

