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**Rolling bearings — Insert bearings  
and eccentric locking collars —  
Geometrical product specifications  
(GPS) and tolerance values**

*Roulements — Roulements insert et bagues de blocage excentriques  
— Spécification géométrique des produits (GPS) et valeurs de  
tolérances*

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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](http://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](http://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 voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 4, *Rolling bearings*, Subcommittee SC 6, *Insert bearings*.

This third edition cancels and replaces the second edition (ISO 9628:2006), which has been technically revised. It also incorporates the Amendment ISO 9628:2006/Amd 1:2011.

The main changes compared to the previous edition are as follows:

- diameter series 3 has been included;
- the fractional expression “1-1/6” for 28,575 mm has been corrected to “1-1/8”;
- introduction of tolerance on D to get interchangeability among bearings from different manufactures;
- the geometrical product specification (GPS) system has been applied.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

## Introduction

This document is a machine element geometry standard as defined in the geometrical product specification (GPS) system presented in the matrix model of ISO 14638<sup>[2]</sup>.

The fundamental rules of ISO/GPS given in ISO 8015 apply to this document and the default decision rules given in ISO 14253-1<sup>[5]</sup> apply to the specifications made in accordance with this document, 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<sup>[3]</sup>. For measurement uncertainty, it is intended that ISO 14253-2<sup>[6]</sup> be considered.

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