



**International
Standard**

ISO 582

**Rolling bearings — Chamfer
dimensions — Geometrical product
specifications (GPS) and values**

*Roulements — Dimensions des arrondis — Spécifications
géométriques des produits (GPS)*

**Fourth edition
2026-02**

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Published in Switzerland

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols	2
4.1 General.....	2
4.2 Symbols for physical quantities.....	2
4.3 Additional symbols.....	2
5 Graphical description	2
6 Housing and shaft fillet radii	4
7 Dimensions	5
Annex A (informative) Relation to ISO 582:1995	10
Annex B (informative) Correlation with concerned standards	11
Bibliography	13

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 document 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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This document was prepared by Technical Committee ISO/TC 4, *Rolling bearings*, Subcommittee SC 4, *Rolling bearings - Vocabulary, boundary dimensions and geometrical product specifications*.

This fourth edition cancels and replaces the third edition (ISO 582:1995), which has been technically revised. It also incorporates the Amendment ISO 582:1995/Amd 1:2013.

The main changes are as follows:

- implementation of ISO 21204;
- symbols have been revised;
- [Annexes A](#) and [B](#) have been added.

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.

Introduction

The purpose of this document is to achieve interchangeability of rolling bearings, by specifying the chamfer dimensions, and to minimize the risk of incompatibility in bearing applications as well as to facilitate the mounting process.

The specification of the chamfer dimensions also assures a sufficient support surface for the bearing rings.

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Rolling bearings — Chamfer dimensions — Geometrical product specifications (GPS) and values

1 Scope

This document specifies the chamfer least material boundary for ring and washer chamfers of metric series rolling bearings for the corresponding radius maximum material boundaries. The radius maximum material boundaries are given in references [1],[2],[3],[4],[5],[6],[7].

Recommendations are given for the corresponding housing and shaft fillet radii.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 5593, *Rolling bearings — Vocabulary*

ISO 8015, *Geometrical product specifications (GPS) — Fundamentals — Concepts, principles and rules*

ISO 21204:2020, *Geometrical product specifications (GPS) — Transition specification*

ISO 22872:2024, *Rolling bearings — Geometrical product specifications (GPS) — Vocabulary and representation of symbols*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 5593, ISO 8015, ISO 21204, ISO 22872 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

transition feature

single integral feature connecting two or more adjacent integral surfaces

[SOURCE: ISO 21204:2020, 3.1]

3.2

ring chamfer

transition feature (3.1) connecting the bore or outside surface and one of the faces of the ring

3.3

washer chamfer

transition feature (3.1) connecting the bore or outside surface and one of the faces of the washer