
Plain bearings — Wrapped bushes —

**Part 1:
Dimensions**

Paliers lisses — Bagues roulées —

Partie 1: Dimensions



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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 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.

This document was prepared by Technical Committee ISO/TC 123, *Plain bearings*, Subcommittee SC 3, *Dimensions, tolerances and construction details*.

This third edition cancels and replaces the second edition (ISO 3547-1:2006), which has been technically revised. The main changes compared to the previous edition are as follows:

- Normative references have been updated.
- Formulae for the minimum and maximum inside diameters of the bush have been added.
- A formula for the expansion of the housing bore due to the pressing in of the bush has been added.

A list of all parts in the ISO 3547 series can be found on the ISO website.

Plain bearings — Wrapped bushes —

Part 1: Dimensions

1 Scope

This document specifies the dimensions and designations of cylindrical and flanged wrapped bushes made of mono and multi-layer bearing material for plain bearing applications.

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 4378-1, *Plain bearings — Terms, definitions, classification and symbols — Part 1: Design, bearing materials and their properties*

ISO 4378-4, *Plain bearings — Terms, definitions, classification and symbols — Part 4: Basic symbols*

ISO 12301, *Plain bearings — Quality control techniques and inspection of geometrical and material quality characteristics*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4378-1 and ISO 4378-4 apply.

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

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

4 Symbols and units

See [Table 1](#).

Table 1 — Symbols and units

Symbol	Description	Unit
B	Width of the bush	mm
C_i	Inside chamfer	mm
C_o	Outside chamfer	mm
D_i	Inside diameter of the bush	mm
$D_{i,min}$	Minimum inside diameter of the bush	mm
$D_{i,max}$	Maximum inside diameter of the bush	mm
$D_{i, ch}$	Inside diameter of the bush in the ring gauge	mm
D_{fl}	Flange diameter	mm
^a For bushes which are made of a single material, $s_1 = s_3$ or $s_2 = s_3$.		