International Standard

ISO 3548-1

Second edition
2022-08

AMENDMENT 1
2024-04

Plain bearings — Thin-walled half bearings with or without flange —

Part 1: Tolerances, design features and methods of test

AMENDMENT 1

Paliers lisses — Demi-coussinets minces à ou sans collerette —

Partie 1: Tolérances, caractéristiques de conception et méthodes d'essai

AMENDEMENT 1

Reference number
ISO 3548-1:2022/Amd.1:2024(en)

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

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).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of 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 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*.

A list of all parts in the ISO 3548 series can be found on the ISO website.

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.

Plain bearings — Thin-walled half bearings with or without flange —

Part 1:
Tolerances, design features and methods of test

AMENDMENT 1

Normative references

Add the following reference:

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

Clause 3

Replace the first paragraph by the following:

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

Add the following terms:

3.1
sliding surface
surface of the bearing

3.2
eccentric bearing bore
bearing where the axis of the bore is parallel to but not coincident with the axis of the outside diameter

3.3
recess in the housing
housing recess
indentation in the housing into which the nick in the bearing engages on assembly

3.4
joint face relief
removal of areas of the joint face to avoid contact and compressive stress where it is undesirable e.g. in flanged bearings where the flanges are relieved from abutting at the joint

3.5
sliding surface relief
reduction in the wall thickness towards the joint face. It is used to avoid the danger of a small step due to manufacturing tolerances in the bearing wall

3.6
scalloped toe
optional joint feature to facilitate maximum material utilization

3.7
flange face
face normal to the axial bore of a bearing, to locate the bearing and, in some cases to take thrust loading

3.8
assembled flange
thrust washers that are integrated into the bearing

3.9
crown
term applied particularly to half bearings to denote the part of the bearing midway between the joint faces

Clause 4, Table 1

Replace line 2 to line 6 by the following:

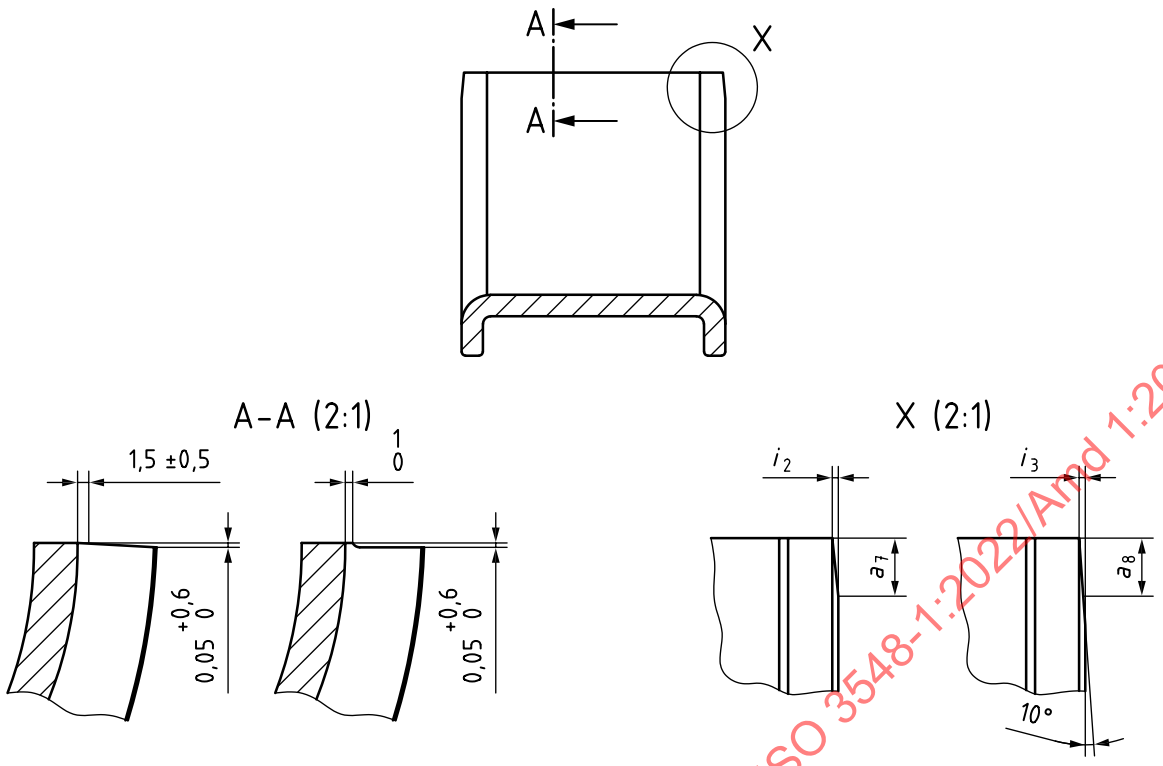
h	Crush height	mm
h_A	Crush height in checking method A	mm
h_B	Crush height in checking method B	mm
h_{B1}	Crush height on first joint face side in checking method B	mm
h_{B2}	Crush height on second joint face side in checking method B	mm

Table 2 and 7.1

Change "crush height, *a*" to "crush height, *h*".

Figure 10

Replace the figure and its key by the following so that it reads:



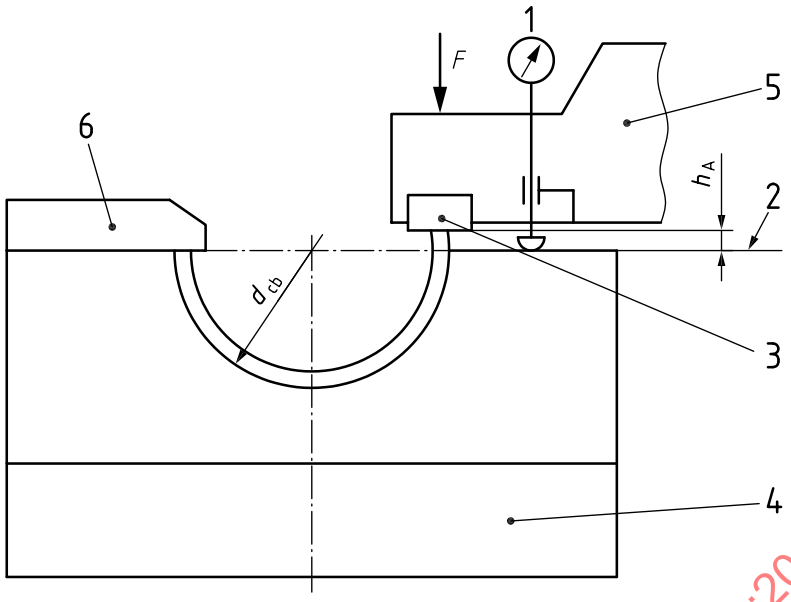
NOTE 1 Design at the option of the manufacturer.

NOTE 2 Sliding surface relief for assembled flange bearing [Figure 10 b)] to be in accordance with ISO 3548-3.

Figure 10 — Flange reliefs

Figure 18

Replace the figure and its key by the following so that it reads:



Key

1 dial gauge
2 datum
3 metering bar
4 checking block
5 movable measuring head
6 fixed stop

Figure 19

Replace the figure by the following so that it reads: