



# FINAL DRAFT International Standard

## ISO/FDIS 4379

### Plain bearings — Copper alloy bushes — Dimensions and tolerances

*Paliers lisses — Bagues en alliages de cuivre — Dimensions et  
tolérances*

ISO/TC 123/SC 3

Secretariat: **DIN**

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## Foreword

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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](http://www.iso.org/directives)).

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

This fourth edition cancels and replaces the third edition (ISO 4379:2018), which has been technically revised.

The main changes are as follows:

- the title has been revised;
- surface roughness and a normative reference to ISO 21920-1 have been added ;
- Bibliographical references have been revised.

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).

# Plain bearings — Copper alloy bushes — Dimensions and tolerances

## 1 Scope

This document specifies dimensions and tolerances for cylindrical and flanged bushes with inside diameter,  $d_1$ , in the range 6 mm to 200 mm.

This document applies to solid mono-metal copper alloy bushes to be used as plain bearings with and without oil holes and oil grooves.

## 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 2768-1, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*

ISO 4382-1, *Plain bearings — Copper alloys — Part 1: Cast copper alloys for solid and multilayer thick-walled plain bearings*

ISO 4382-2, *Plain bearings — Copper alloys — Part 2: Wrought copper alloys for solid plain bearings*

ISO 21920-1:2021, *Geometrical product specifications (GPS) — Surface texture: Profile — Part 1: Indication of surface texture*

## 3 Terms and definitions

No terms and definitions are listed in this document.

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/>

## 4 Symbols

$b_1$	bush width	mm
$b_2$	flange width	mm
$c_1$	inside chamfer	mm
$c_2$	outside chamfer	mm
$d$	shaft diameter	mm
$d_1$	inside diameter	mm

$d_2$	outside diameter	mm
$d_3$	outside diameter of flange	mm
$u$	undercut width	mm

## 5 Dimensions and tolerances

Dimensions shall be as shown and given in [Figure 1](#) and in [Table 1](#) and [Table 2](#).

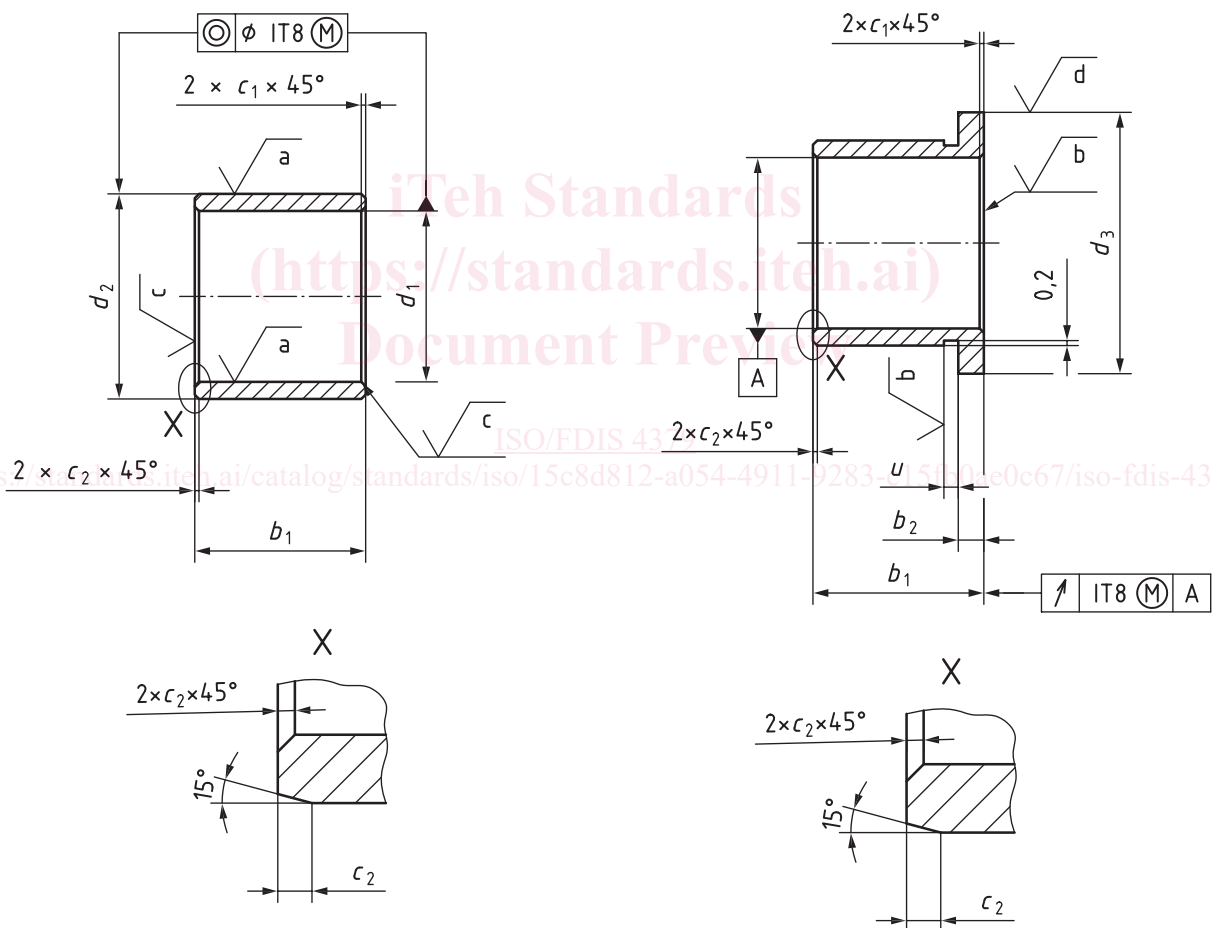
Tolerances shall be as given in [Table 3](#).

Tolerance classes which deviate from those given in this document shall in each case be added in the designation to the nominal size.

The dimensions of  $d_2$  shall be used to determine the IT value in the case of the coaxial tolerance.

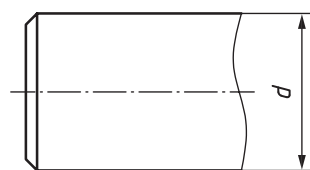
The dimensions of  $d_3$  shall be used to determine the IT value in the case of the axial runout.

Details which have not been specified shall be chosen appropriately.



a) Dimensions and tolerances for type C

b) Dimensions and tolerances for type Fa



c) Dimensions and tolerances for shaft