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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 18324-2025

Replacing GB/T 18324-2001

**Plain bearings - Copper alloy bushes - Dimensions and
tolerances**

滑动轴承 铜合金轴套 尺寸和公差

(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document replaces GB/T 18324-2001 "Sliding Bearings - Copper Alloy Bushings". Compared with GB/T 18324-2001, the only differences are in the structural design.

Aside from integration and editorial changes, the main technical changes are as follows.

---Added symbols (see Chapter 4);

---Added dimensional and tolerance requirements outside the dimensional range (see Chapter 5);

---The tolerance requirements for the inner diameter have been changed (see Table 4);

--- Surface roughness has been changed (see Chapter 7, Chapter 5 in the 2001 edition).

This document is modified to adopt ISO 4379:2024 "Dimensions and tolerances of copper alloy bushings for sliding bearings".

The technical differences between this document and ISO 4379:2024 are as follows.

--- Replace ISO 2768-1 with GB/T 1804 (see Chapter 8);

---Change the tolerance of d1 from "E6" to "E7".

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China Machinery Industry Federation.

This document is under the jurisdiction of the National Technical Committee on Standardization of Sliding Bearings (SAC/TC236).

1 Scope

This document specifies the dimensions and tolerances of cylindrical bushings and flange bushings with an inner diameter d1 of 6 mm to 200 mm.

This document applies to single-layer copper alloy bushings with or without oil holes and oil grooves as sliding bearings.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

GB/T 1804 General Tolerances - Tolerances for linear and angular dimensions without specified tolerances (GB/T 1804-2000, eqv ISO 2768-1)

1989)

ISO 4382-1 Cast copper alloys for single-layer and multi-layer sliding bearings
ISO 4382-2 Copper alloys for sliding bearings - Part 2: Forged copper alloys for single-layer bearings
ISO 21920-1:2021 Product Geometry Specification (GPS) - Surface Texture. Profile Method - Part 1: Representation of Surface Texture]

3 Terms and Definitions

This document does not contain any terms or definitions that need to be defined.

4 Symbols

The symbols and units used in this document are shown in Table 1.

Table 1 Symbols and Units

Symbolic parameter description unit b1 Bushing width (mm) b2 Flange width (mm) c1 inner

chamfer mm c2 outer chamfer mm d Shaft diameter (mm) d1 inner diameter mm d2 Outer diameter (mm)