

ICS 21.100.10

CCS J 12



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

GB/T 10445-2025

Replacing GB/T 10445-1989

Plain bearings - Shaft diameters for unsplit bushes

滑动轴承 整体轴套的轴径

Issued on: October 31, 2025

Implemented on: February 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

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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 10445-1989 "Shaft Diameter of Integral Sleeves for Sliding Bearings". Compared with GB/T 10445-1989, except for the structural... Aside from structural adjustments and editorial changes, the main technical changes are as follows:

---Added a series of shaft diameter sizes. 13, 17, 19, 24, and 63 (see Chapter 4, Chapter 2 of the 1989 edition). 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). This document was drafted by: China Machinery Productivity Promotion Center Co., Ltd., Hefei Bolin New Materials Co., Ltd., and Zhejiang Changsheng Sliding Shaft. Cheng Co., Ltd., Zhejiang Zhongda Precision Components Co., Ltd., Luoyang Jiawei Bearing Co., Ltd., Zhuji Hongyuan Electric Machinery Co., Ltd. Limited Liability Company, Shuangfei Oil-Free Bearing Group Co., Ltd., Zhejiang Jingli Bearing Technology Co., Ltd., Ningbo Boshi Peilin Machinery Co., Ltd. Ningbo Chuanyuan Precision Machinery Co., Ltd. This document is subject to interpretation by the National Technical Committee on Standardization of Sliding Bearings. This document was first published in 1989, and this is its first revision. Shaft diameter of integral bushing of sliding bearing

1 Scope

GB/T 10445-2025 is the Chinese national standard covering the shaft diameters a solid bush is made for - the preferred series and their tolerances, so that a bush bought from any supplier fits the shaft the designer drew. It replaces GB/T 10445-1989, a standard thirty-six years old. In force from 1 February 2026. Issued on 31 October 2025, it has been in force since 1 February 2026, replacing GB/T 10445-1989.

This document specifies the journal diameter series for integral bushing-fitted shafts. This

document applies to integral bushings of 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 18323 Dimensions and tolerances of sintered bushings for sliding bearings

GB/T 23894 Sliding bearings - Copper alloy inlaid solid lubricated bearings

GB/T 39431 Sliding bearings containing dispersed solid lubricants

GB/T 39743 Dimensions and Tolerances of Thermoplastic Bushings for Sliding Bearings

3 Terms and Definitions

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

4. Journal Diameter Series Integral bushings include the integral bushings described in GB/T 18323, GB/T 23894, GB/T 39431, and GB/T 39743. The series of shaft diameters for the mating shafts are shown in Table 1. Table

1 Journal Diameter Series The unit is millimeters. journal 1.5 13 30 65 140 2.5 15 35 75 160 3 16 38 80 170 4 17 40 85 180 5 18 42 90 190 6 19 45 95.200 7 20 48 100 - 8 22 50 105 - 9 24 55 110 - 10 25 60 120 -