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BSI Standards Publication

ISO general purpose metric screw threads — Tolerances

Part 2: Limits of sizes for internal and external threads (tolerance classes 6H and 6g for M1,6 to M100 and 5H and 6h for M1 to M1,4)

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National foreword

This British Standard is the UK implementation of ISO 965-2:2024. It supersedes BS ISO 965-2:1998+A1:2021, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee FME/9, Fasteners.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Published by BSI Standards Limited 2024

ISBN 978 0 539 28877 3

ICS 21.040.10

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 November 2024.

Amendments/corrigenda issued since publication

| Date | Text affected |
|------|---------------|
|------|---------------|



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ISO 965-2

ISO general purpose metric screw threads — Tolerances —

Part 2:
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*Filetages métriques ISO pour usages généraux — Tolérances —
Partie 2: Dimensions limites pour filetages intérieurs et extérieurs
(classes de tolérance 6H et 6g pour M1,6 à M100 et 5H et 6h pour M1 à M1,4)*

**Fourth edition
2024-11**

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Published in Switzerland

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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).

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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 1, *Screw threads*.

This fourth edition cancels and replaces the third edition (ISO 965-2:1998), which has been technically revised. It also incorporates the Amendment ISO 965-2:1998/Amd.1:2021.

The main changes are as follows:

- in [Tables 1](#) and [2](#), the large nominal diameters (from 68 mm to 100 mm) have been added;
- in [Tables 1](#) and [2](#), the normal lengths of thread engagement have been updated for M10×1, M12×1,5, M18×2, M20×2 and M22×2 (in [Tables 3](#) and [4](#) in the previous edition).

A list of all parts in the ISO 965 series can be found on the ISO website.

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Part 2:

Limits of sizes for internal and external threads (tolerance classes 6H and 6g for M1,6 to M100 and 5H and 6h for M1 to M1,4)

1 Scope

This document specifies the limits of sizes for pitch and crest diameters of ISO general purpose metric screw threads (M) conforming to ISO 262 having basic and design profiles according to ISO 68-1.

This document is applicable to the metric fastening screw threads with tolerance classes 6H and 6g for M1,6 to M100 and 5H and 6h for M1 to M1,4.

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 965-1, *ISO general purpose metric screw threads — Tolerances — Part 1: Principles and basic data*

ISO 5408, *Screw threads — Vocabulary*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 5408 apply.

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 Designation

A screw thread in conformity with this document shall be designated in accordance with ISO 965-1.

5 Limits of sizes

5.1 General

The limits of sizes specified shall be derived from the fundamental deviations and tolerances specified in ISO 965-1.

For coated threads, the tolerance classes shall apply to the parts before coating, unless otherwise stated.

After coating, the actual screw thread profile shall not, at any point, transgress the maximum material limit for the tolerance position H or h. A maximum torque can be given in the relevant coating product standards.