



**International  
Standard**

**ISO 2903-2**

**ISO metric trapezoidal screw  
threads — Tolerances —**

**Part 2:  
Limits of sizes**

*Filetages métriques trapézoïdaux ISO — Tolérances —*

*Partie 2: Dimensions limites*

**First edition  
2025-07**

iTeh Standards  
(<https://standards.iteh.ai>)  
Document Preview

ISO 2903-2:2025

<https://standards.iteh.ai/catalog/standards/iso/5dac6bf9-8469-4287-81a3-91a17f053e08/iso-2903-2-2025>

iTeh Standards  
(<https://standards.iteh.ai>)  
Document Preview

ISO 2903-2:2025

<https://standards.iteh.ai/catalog/standards/iso/5dac6bf9-8469-4287-81a3-91a17f053e08/iso-2903-2-2025>



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2025

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

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

Published in Switzerland

Contents		Page
Foreword.....		iv
1	Scope.....	1
2	Normative references.....	1
3	Terms and definitions.....	1
4	Limits of sizes.....	1
4.1	General.....	1
4.2	Internal threads.....	2
4.3	External threads.....	14
Bibliography.....		31

iTeh Standards  
(<https://standards.iteh.ai>)  
Document Preview

[ISO 2903-2:2025](https://standards.iteh.ai/catalog/standards/iso/5dac6bf9-8469-4287-81a3-91a17f053e08/iso-2903-2-2025)  
<https://standards.iteh.ai/catalog/standards/iso/5dac6bf9-8469-4287-81a3-91a17f053e08/iso-2903-2-2025>

## 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](http://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](http://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](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 1, *Screw threads*.

A list of all parts in the ISO 2903 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](http://www.iso.org/members.html).

ISO 2903-2:2025

<https://standards.itech.ai/catalog/standards/iso/5dac6bf9-8469-4287-81a3-91a17f053e08/iso-2903-2-2025>

# ISO metric trapezoidal screw threads — Tolerances —

## Part 2: Limits of sizes

### 1 Scope

This document specifies the limits of sizes for major, pitch and minor diameters of ISO metric trapezoidal screw threads (Tr) conforming to ISO 2902 and having basic and design profiles in accordance with ISO 2901.

This document is applicable to the metric trapezoidal screw threads with the seven tolerance classes (7H, 8H, 9H, 7e, 8e, 8c and 9c) recommended in ISO 2903.

### 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 2903, *ISO metric trapezoidal screw threads — Tolerances*

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 Limits of sizes

#### 4.1 General

The limits of sizes specified shall be derived from the fundamental deviations and tolerances specified in ISO 2903.

The limits of sizes for major, pitch and minor diameters of screw threads (Tr) have been calculated by the following formulae and rounded to the third decimal place.