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**Aerospace — Lead and runout  
threads —**

**Part 2:  
Internal threads**

*Aéronautique et espace — Filets incomplets, débuts et fins de filets —  
Partie 2: Filetages intérieurs*





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Published in Switzerland

# Contents

	Page
Foreword .....	iv
<b>1 Scope .....</b>	<b>1</b>
<b>2 Normative references .....</b>	<b>1</b>
<b>3 Terms and definitions .....</b>	<b>1</b>
<b>4 Symbols for threads .....</b>	<b>2</b>
<b>5 Requirements .....</b>	<b>2</b>
5.1 General requirements .....	2
5.2 Lead threads .....	3
5.3 Runouts .....	4
5.4 Undercuts .....	5

## 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 documents 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)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

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 20, *Aircraft and space vehicles* Subcommittee SC 4, *Aerospace fastener systems*.

This second edition cancels and replaces the first edition (ISO 3353-2:2002), of which it constitutes a minor revision.

The main changes compared to the previous edition are as follows:

- update of the term “lead threads”;
- editorially revised.

A list of all parts in the ISO 3353 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).

# Aerospace — Lead and runout threads —

## Part 2: Internal threads

### 1 Scope

This document specifies the lead and runout thread and undercut requirements for internal threads (blind tapped holes) for aerospace construction.

It is applicable whenever it is referenced in a definition document.

### 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 5855-1, *Aerospace — MJ threads — Part 1: General requirements*

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

#### 3.1

##### **lead thread**

portion of the incomplete thread that is fully formed at the root but not at the crest which occurs at the beginning end of either an external or internal thread

#### 3.2

##### **runout thread**

part of the screw thread in which is located the thread incompletely formed during cutting, between the completely formed threads and the end of the cylindrical part of the blind tapped hole

#### 3.3

##### **undercut**

groove dug at the hole bottom to limit the threads with completely formed thread (except at the crossing between the last thread and the groove flank)

#### 3.4

##### **completely formed thread**

thread, the profile of which (ABC) is located, over an axial distance of  $1P$ , within the limits specified in the definition document for the thread

Note 1 to entry: See [Figure 1](#).