

---

---

**Prosthetics and orthotics —  
Vocabulary —**

**Part 3:  
Terms relating to orthoses**

*Prothèses et orthèses — Vocabulaire —*

*Partie 3: Termes relatifs aux orthèses*

**iTeh STANDARD PREVIEW  
(standards.iteh.ai)**

ISO 8549-3:2020

<https://standards.iteh.ai/catalog/standards/sist/b5f3f4d2-0f37-425d-ac80-4bb921ca3ae8/iso-8549-3-2020>



## iTeh STANDARD PREVIEW (standards.iteh.ai)

ISO 8549-3:2020

<https://standards.iteh.ai/catalog/standards/sist/b5f3f4d2-0f37-425d-ac80-4bb921ca3ae8/iso-8549-3-2020>



### **COPYRIGHT PROTECTED DOCUMENT**

© ISO 2020

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
<b>Foreword</b> .....	<b>iv</b>
<b>Introduction</b> .....	<b>v</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
3.1 General.....	1
3.2 Classes of lower limb orthoses.....	1
3.3 Classes of upper limb orthoses.....	2
3.4 Classes of spinal orthoses.....	3
3.5 Classes of head orthoses.....	4
<b>Annex A (informative) Index of terms and alphabetical list of abbreviations</b> .....	<b>5</b>
<b>Bibliography</b> .....	<b>8</b>

## iTeh STANDARD PREVIEW (standards.iteh.ai)

ISO 8549-3:2020

<https://standards.iteh.ai/catalog/standards/sist/b5f3f4d2-0f37-425d-ac80-4bb921ca3ae8/iso-8549-3-2020>

## 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 168, *Prosthetics and orthotics*.

This second edition cancels and replaces the first edition (ISO 8549-3:1989), which has been technically revised.

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

- the list of terms, abbreviations and definitions of categories of orthoses (see [Clause 3](#)) has been augmented to include all currently recognized categories;
- subclauses have been added to [Clause A.1](#) to provide the abbreviations ordered by classes of orthoses.

A list of all parts in the ISO 8549 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).

## Introduction

Prior to the publication of the first edition of this document in 1989, no internationally accepted terminology to describe the classes of orthoses existed. Consequently, the members of the clinic teams in different countries and working in different facilities had developed their own terminology to meet their own needs.

The terms and definitions provided in this document reflect the changes in the field of orthotics since the publication of the first edition of this document.

They will allow practitioners to describe, in a standardized manner, the devices they supply and the personnel involved in the supply process.

This document will also be of value to epidemiologists and national health officials.

Users of this document are also advised of the WHO International Classification of Impairments, Disabilities and Handicaps<sup>[3]</sup>.

## iTeh STANDARD PREVIEW (standards.iteh.ai)

ISO 8549-3:2020

<https://standards.iteh.ai/catalog/standards/sist/b5f3f4d2-0f37-425d-ac80-4bb921ca3ae8/iso-8549-3-2020>

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

ISO 8549-3:2020

<https://standards.iteh.ai/catalog/standards/sist/b5f3f4d2-0f37-425d-ac80-4bb921ca3ae8/iso-8549-3-2020>

# Prosthetics and orthotics — Vocabulary —

## Part 3: Terms relating to orthoses

### 1 Scope

This document defines terms relating to orthoses.

This document does not include terms for orthoses that only encompass limb segments, as these orthoses are limited mainly to use in the treatment of fractures and in sports medicine.

NOTE 1 The types of components used in the construction of orthoses are classified and described in ISO 13404.

NOTE 2 For the purposes of this document the abbreviated term 'orthotics' and its derivatives only apply to external orthotics.

### 2 Normative references

There are no normative references in this document.

### 3 Terms and definitions

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/>

NOTE 1 An alphabetical index of terms is provided in [Clause A.2](#).

NOTE 2 The abbreviations of the following classes of orthoses are made up of the first letters (in upper case) of the names of the body segments and joints encompassed by the orthosis.

#### 3.1 General

##### 3.1.1

##### **orthosis**

##### **orthotic device**

externally applied device used to compensate for impairments of the structure and function of the neuro-muscular and skeletal systems

[SOURCE: ISO 8549-1:2020, 3.1.2]

#### 3.2 Classes of lower limb orthoses

##### 3.2.1

##### **toe orthosis**

##### **TO**

*orthosis* ([3.1.1](#)) that encompasses the toe

**3.2.2**

**foot orthosis**

**FO**

*orthosis* (3.1.1) that encompasses the whole or part of the foot

**3.2.3**

**ankle-foot orthosis**

**AFO**

*orthosis* (3.1.1) that encompasses the ankle joint and the whole or part of the foot

**3.2.4**

**knee orthosis**

**KO**

*orthosis* (3.1.1) that encompasses the knee joint

**3.2.5**

**knee-ankle-foot orthosis**

**KAFO**

*orthosis* (3.1.1) that encompasses the knee and ankle joints and the foot

**3.2.6**

**hip orthosis**

**HO**

*orthosis* (3.1.1) that encompasses the hip joint

**3.2.7**

**hip-knee orthosis**

**HKO**

*orthosis* (3.1.1) that encompasses the hip and knee joints

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

**3.2.8**

**hip-knee-ankle-foot orthosis**

**HKAFO**

*orthosis* (3.1.1) that encompasses the hip, the knee and the ankle joints and the foot

ISO 8549-3:2020

<https://standards.iteh.ai/catalog/standards/sist/b5f3f4d2-0f37-425d-ac80-4bb921ca3ae8/iso-8549-3-2020>

**3.3 Classes of upper limb orthoses**

**3.3.1**

**finger orthosis**

**FO**

*orthosis* (3.1.1) that encompasses the whole or part of a finger

**3.3.2**

**thumb orthosis**

**TO**

*orthosis* (3.1.1) that encompasses the whole or part of the thumb

**3.3.3**

**hand orthosis**

**HO**

*orthosis* (3.1.1) that encompasses the whole or part of the hand

**3.3.4**

**wrist-hand orthosis**

**WHO**

*orthosis* (3.1.1) that encompasses the wrist joint and hand



**3.3.5****elbow orthosis****EO**

*orthosis* (3.1.1) that encompasses the elbow joint

**3.3.6****elbow-wrist-hand orthosis****EWHO**

*orthosis* (3.1.1) that encompasses the elbow and the wrist joints and the hand

**3.3.7****shoulder orthosis****SO**

*orthosis* (3.1.1) that encompasses the shoulder joint

**3.3.8****shoulder-elbow orthosis****SEO**

*orthosis* (3.1.1) that encompasses the shoulder and the elbow joints

**3.3.9****shoulder-elbow-wrist-hand orthosis****SEWHO**

*orthosis* (3.1.1) that encompasses the shoulder, the elbow and the wrist joints and the hand

**3.4 Classes of spinal orthoses****3.4.1****cervical orthosis****CO**

*orthosis* (3.1.1) that encompasses the whole or a part of the cervical region, including the atlantooccipital joint

**3.4.2****cervico-thoracic orthosis****CTO**

*orthosis* (3.1.1) that encompasses the whole or a part of the cervical and the thoracic regions, including the atlantooccipital joint

**3.4.3****cervico-thoraco-lumbo-sacral orthosis****CTLSO**

*orthosis* (3.1.1) that encompasses the whole or a part of the cervical, the thoracic, the lumbar and the sacroiliac regions, including the atlantooccipital joint

**3.4.4****thoracic orthosis****TO**

*orthosis* (3.1.1) that encompasses the whole or a part of the thoracic region of the trunk

**3.4.5****thoraco-lumbo-sacral orthosis****TLSO**

*orthosis* (3.1.1) that encompasses the whole or a part of the thoracic, the lumbar and the sacroiliac regions of the trunk

**3.4.6****lumbo-sacral orthosis****LSO**

*orthosis* (3.1.1) that encompasses the whole or a part of the lumbar and sacroiliac regions of the trunk