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# Prosthetics and orthotics — Classification and description of prosthetic components —

## Part 3: Description of upper limb prosthetic components

*Prothèses et orthèses — Classification et description des composants  
de prothèses —*

*Partie 3: Description des composants de prothèses des membres  
supérieurs*



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## 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 on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT), see the following URL: [Foreword - Supplementary Information](#).

The committee responsible for this document is ISO/TC 168, *Prosthetics and orthotics*.

This second edition cancels and replaces the first edition (ISO 13405-3:1996), which has been technically revised with the following changes:

- a) classification tree of upper limb prosthetic components added to [Clause 4](#);
- b) levels of amputation extended to include all partial hand levels;
- c) methods of socket suspension extended;
- d) classification tree for functional components added in [Clause 5](#);
- e) range of the types of terminal devices, wrist units, elbow units, and shoulder units extended;
- f) range of adjustment of alignment components deleted.

ISO 13405 consists of the following parts, under the general title *Prosthetics and orthotics — Classification and description of prosthetic components*:

- *Part 1: Classification of prosthetic components*
- *Part 2: Description of lower limb prosthetic components*
- *Part 3: Description of upper limb prosthetic components*

## **Introduction**

This part of ISO 13405 was the first internationally accepted standard method to describe the components of upper limb prostheses. It is designed to permit the users to describe systematically each component which is incorporated in a finished prosthesis in a manner which clearly explains its principal characteristics. This part of ISO 13405 is envisaged as being suitable for use by both manufacturers producing literature describing their products and practitioners who are reporting on the components used in the treatment of persons requiring prosthesis.

Prosthetic technology has made considerable advances since the publication of the first edition of this part of ISO 13405. This first revision is designed to include the new types of components which have come into use during this period.

Manufacturers' trade names and details of the materials and manufacturing methods employed have been avoided.