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Assistive products — Classification and terminology

Produits d'assistance — Classification et terminologie

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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).

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).

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.

This document was prepared by Technical Committee ISO/TC 173, *Assistive products*, Subcommittee SC 2, *Classification and terminology*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 293, *Assistive products and accessibility*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This seventh edition cancels and replaces the sixth edition (ISO 9999:2016), which has been technically revised. The main changes are as follows:

- deletion of class 05 was;
- major changes in class 09, class 12 and class 22.

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.

Introduction

Assistive products (including software) are classified according to their function. The classification consists of three hierarchical levels and the codes each consist of three pairs of digits. Like other classifications, for each level, codes, titles, explanatory notes, inclusions, exclusions and cross-references are given. Besides the explanatory text and the classification itself, a table of conversion between the previous edition (ISO 9999:2016) and this document (ISO 9999:2022) and an alphabetical index are provided in order to facilitate the use of and to improve the accessibility of the classification.

This document has 948 titles of which about 23 are new and 116 are changed, including minor editorial revisions.

All assistive products in this classification are primarily intended for use outside of health care settings; however, some of the products can be used in facilities such as rehabilitation centres to teach clients how to use these products. It should be noted that the titles of some subclasses and divisions in class 28 refer to the "workplace". This term does not refer to a specific setting or geographical location; instead, it refers to any setting in which employment-related activities or vocational training are performed.

The definition of "assistive product" used by this document has been revised to align it with the terminology of the International Classification of Functioning, Disability and Health (ICF, WHO, 2018).

In 2003, ISO 9999 was accepted as a related member of the WHO Family of International Classifications (WHO-FIC). The WHO-FIC comprises high-quality classifications for relevant sectors of the health system. With this inclusion, the use of this document was stimulated.

This document makes use of the terminology of the ICF, which is a classification of health and health-related domains. These domains are classified from body, individual and societal perspectives by means of two lists: a list of body functions and structure and a list of domains of activity and participation. Since an individual's functioning and disability occurs in a context, ICF also includes a list of environmental factors. Assistive products in this list are viewed as part of the environmental factors. The ICF is one of the core classifications of the WHO-FIC (see [Annex A](#)).

An alphabetical index of terms in [Annex D](#) is provided for information to facilitate access to the classification. Terms used in inclusion statements are incorporated in the index.

NOTE Some of the assistive products can be classified as medical devices.

Assistive products — Classification and terminology

1 Scope

This document specifies a classification and terminology of assistive products, especially produced or generally available, for persons to optimize functioning and reduce disability.

Assistive products used by a person to optimize functioning and reduce disability, but which require the assistance of another person for their operation, are included in the classification.

The following items are specifically excluded from this document:

- items used for the installation of assistive products;
- solutions obtained by combinations of assistive products that are individually classified in this document;
- medicines;
- assistive products and instruments used exclusively by healthcare professionals or by teachers;
- non-technical solutions, such as personal assistance, guide dogs or lip-reading;
- implanted devices;
- financial support.

2 Normative references

[ISO 9999:2022](#)

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There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions 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/>

3.1

activity

execution of a task or action by an individual

[SOURCE: ICF 2018, WHO]

3.2

activity limitation

difficulties an individual can have in executing *activities* (3.1)

[SOURCE: ICF 2018, WHO]

3.3

assistive product

product that optimizes a person's functioning and reduces disability

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

Note 2 to entry: Assistive products include devices, instruments, equipment, and software.

Note 3 to entry: Assistive products can be especially produced or generally available items.

3.4

body function

physiological functions of body systems (including psychological functions)

[SOURCE: ICF 2018, WHO]

3.5

body structure

anatomical parts of the body such as organs, limbs and their components

[SOURCE: ICF 2018, WHO]

3.6

disability

umbrella term for *impairments* ([3.9](#)), *activity limitations* ([3.2](#)) and *participation restrictions* ([3.12](#)) denoting the negative aspects of the interaction between an individual (with a health condition) and that individual's contextual factors (environmental and personal factors)

[SOURCE: ICF 2018, WHO]

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3.7

environmental factor

physical, social and attitudinal environment in which people live and conduct their lives

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[SOURCE: ICF 2018, WHO]

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3.8

functioning

umbrella term for *body functions* ([3.4](#)), *body structures*, *activities* ([3.1](#)) and *participation* ([3.11](#)) denoting the positive aspects of the interaction between an individual (with a health condition) and that individual's contextual factors (environmental and personal factors)

[SOURCE: ICF 2018, WHO]

3.9

impairment

problems in body function or structure, such as a significant deviation or loss

[SOURCE: ICF 2018, WHO]

3.10

person with disability

person with one or more *impairments* ([3.9](#)), one or more *activity limitations* ([3.2](#)), one or more *participation restrictions* ([3.12](#)) or a combination thereof

3.11

participation

involvement in a life situation

[SOURCE: ICF 2018, WHO]

3.12**participation restriction**

problems an individual can experience in involvement in life situations

[SOURCE: ICF 2018, WHO]

3.13**workplace**

setting in which employment-related activities or vocational training are performed

3.14**robot**

programmed actuated mechanism with a degree of autonomy to perform locomotion, manipulation or positioning

Note 1 to entry: A robot includes the control system and interface of the control system.

4 Elements and rules used in classification

4.1 Principle

The classification is based on the function of the products being classified.

Assistive products that have a principal function other than training, but which can also be used for training, are included in the class covering their primary function.

Software is classified according to its function.

Multifunctional products are also classified based on the primary function. References may be added related to secondary functions of the item.

4.2 Construction

The classification consists of three hierarchical levels: classes, subclasses and divisions.

Each class, subclass or division consists of a code, a title and, if necessary, an explanatory note and reference to other parts of the classification.

Explanatory notes are used to clarify the content of the class, subclass or division. Inclusions and exclusions are used to provide examples.

References are used for two purposes:

- to separate classes, subclasses or divisions from one another;
- for information, e.g. references between related products.

In general, references are made to the lowest possible level.

4.3 Codes

4.3.1 The code consists of three pairs of digits.

The first pair of digits indicates a class, the second pair of digits a subclass and the third pair of digits a division.

For practical reasons, in this document, the classes are indicated by one pair of digits only (deleting two pairs of zeros) and subclasses are indicated by two pairs of digits (deleting one pair of zeros).

The code determines the position of the class, the subclass or the division, respectively, in the classification.

4.3.2 The digits for the codes were originally chosen with intervals of three. In subsequent revisions, the intervening digits have been used to introduce new classes, subclasses and divisions without significantly modifying the classification.

Codes that were originally used to classify items that have been removed from the classification are not used to classify new items that have been added to the classification. As a consequence, the order of the codes is no longer in all places in intervals of three and the divisions may not in all places follow a logic order.

4.3.3 Classes 01, 02, and 90 to 99 and the associated subclasses and divisions are reserved for national applications.

The subclasses XX 01, XX 02, and XX 90 to XX 99 and the associated divisions are reserved for national applications.

The divisions XX XX 01, XX XX 02 and XX XX 90 to XX XX 99 are reserved for national applications.

Subclasses XX 88 and the divisions XX XX 88 are reserved for assistive products that are titled “Other (title of parent class or parent subclass)” for international applications.

In addition, further levels, e.g. 4th level, may be added to any part of the classification to serve national or local purposes

4.3.4 A conversion table detailing the coding changes from the previous edition (ISO 9999:2016) of the classification to this document is given in [Annex C](#).

4.4 Titles of classes, subclasses and divisions

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4.4.1 The common language and framework of the ICF is used when appropriate, otherwise terminology in general use has been adopted; titles of classes are harmonized with the ICF.

4.4.2 All titles in the classification are in the plural form.

4.4.3 Titles at class level generally describe a broad area of function of the product, e.g. assistive products for domestic activities and participation in domestic life, assistive products for activities and participation relating to personal mobility and transportation and assistive products for work activities and participation in employment.

4.4.4 Titles at subclass level describe a special function, e.g. “assistive products for reading”, within the broad area covered by the class, e.g. “assistive products for communication and information management”.

4.4.5 Going down to the division level, the description gets more specific.

4.4.6 Only in cases where an assistive product is intended for use by persons with a specific disability, age or gender should the title refer to that group.

4.5 Rules used in classification

4.5.1 A class is equal to the sum of its subclasses and a subclass is equal to the sum of its divisions.

4.5.2 In general, parts of assistive products, accessories to assistive products, individually adapted assistive products and individual adaptations in homes and other premises are classified in the same subclass or division of the assistive product with which they are associated.

4.5.3 Parts, accessories and adaptations are separately classified when they are associated with a group of assistive products. In these cases, they are classified as close as possible to the group of assistive products with which they are associated, e.g. 12 07 accessories for assistive products for walking.

4.5.4 The classification is organized in such a manner that all assistive products can be classified without being tested or measured.

4.5.5 Classification of hypothetical assistive products is avoided.

4.5.6 Classes are created in such a manner that they do not overlap in the described broad function of other classes. The subclasses are created in such a manner that they do not overlap in the specific function of other subclasses. The divisions are created in such a manner that they do not overlap with products in other divisions.

5 Classification

5.1 One-level classification — Classes

- 04 Assistive products for measuring, stimulating or training physiological and psychological functions
- 06 Orthoses and prostheses
- 09 https://standards.iso.org/iso/iso_9999-2022/iso-9999-2022.html Assistive products for self-care activities and participation in self-care
- 12 Assistive products for activities and participation relating to personal mobility and transportation
- 15 Assistive products for domestic activities and participation in domestic life
- 18 Furnishings, fixtures and other assistive products for supporting activities in indoor and outdoor human-made environments
- 22 Assistive products for communication and information management
- 24 Assistive products for controlling, carrying, moving and handling objects and devices
- 27 Assistive products for controlling, adapting or measuring elements of physical environments
- 28 Assistive products for work activities and participation in employment
- 30 Assistive products for recreation and leisure

5.2 Two-level classification — Classes and subclasses

- 04 Assistive products for measuring, stimulating or training physiological and psychological functions
- 04 03 Assistive products for respiration
- 04 06 Assistive products for supporting and stimulating blood circulation

- 04 08 Assistive products for stimulating body control and conceptualization
- 04 09 Assistive products for light therapy
- 04 15 Assistive products for dialysis therapy
- 04 19 Assistive products for administering medicines
- 04 22 Sterilizing equipment
- 04 24 Physical, physiological and biochemical test equipment and materials
- 04 25 Cognitive test and evaluation materials
- 04 26 Assistive products to enhance cognitive function
- 04 27 Stimulators for treatment on cellular and tissue level
- 04 28 Assistive products for stimulating senses
- 04 29 Assistive products for pain relief
- 04 30 Assistive products for heat treatment or cold treatment
- 04 33 Assistive products intended to manage tissue integrity
- 04 45 Assistive products for spinal traction
- 04 48 Equipment for movement, strength, balance and cardio training
- 04 49 Wound care products
- 06 Orthoses and prostheses
<https://standards.icti.org/catalog/standards/sist/ca3601cf-30e8-4768-b42e-cf7661478de3/iso-9999-2022>
- 06 03 Spinal and cranial orthoses
- 06 04 Abdominal orthoses
- 06 06 Upper limb orthoses
- 06 12 Lower limb orthoses
- 06 15 Functional neuromuscular stimulators and hybrid orthoses
- 06 18 Upper limb prostheses
- 06 24 Lower limb prostheses
- 06 30 Prostheses other than limb prostheses
- 09 Assistive products for self-care activities and participation in self-care
- 09 03 Clothes and shoes
- 09 06 Body-worn assistive products for body protection
- 09 07 Assistive products for body stabilization
- 09 09 Assistive products for dressing and undressing
- 09 12 Assistive products for toileting

- | | |
|-------|--|
| 09 15 | Assistive products for tracheostomy care |
| 09 18 | Assistive products for ostomy care |
| 09 21 | Products for skin care, skin protection, and skin cleaning |
| 09 24 | Urine diverters |
| 09 27 | Assistive products for collecting urine and faeces |
| 09 30 | Absorbing products to contain urine and faeces |
| 09 31 | Assistive products to prevent involuntary urine or faeces leakage |
| 09 32 | Assistive products for management of menstruation |
| 09 33 | Assistive products for washing, bathing and showering |
| 09 36 | Assistive products for nail care |
| 09 39 | Assistive products for hair care |
| 09 42 | Assistive products for dental care |
| 09 45 | Assistive products for facial care |
| 09 54 | Assistive products for sexual activity |
| 12 | Assistive products for activities and participation relating to personal mobility and transportation |
| 12 02 | Assistive products for walking, not manipulated by the arms |
| 12 03 | Assistive products for walking, manipulated by one arm |
| 12 06 | Assistive products for walking, manipulated by both arms |
| 12 07 | Accessories for assistive products for walking |
| 12 08 | Guide canes and symbol canes for orientation |
| 12 10 | Cars, vans and pick-up trucks |
| 12 11 | Mass transit vehicles |
| 12 12 | Vehicle accessories and vehicle adaptations |
| 12 16 | Mopeds and motorcycles |
| 12 17 | Diverse motorized vehicles |
| 12 18 | Cycles |
| 12 22 | Manual wheelchairs |
| 12 23 | Powered wheelchairs |
| 12 24 | Wheelchair accessories |
| 12 25 | Accessories wheelchair seating |
| 12 27 | Diverse human powered vehicles |

- 12 31 Assistive products for changing body position
- 12 36 Assistive products for lifting persons
- 15 Assistive products for domestic activities and participation in domestic life
- 15 03 Assistive products for preparing food and drink
- 15 06 Assistive products for dishwashing
- 15 09 Assistive products for eating and drinking
- 15 12 Assistive products for housecleaning
- 15 15 Assistive products for making and maintaining textiles for domestic use
- 15 18 Assistive products for gardening and lawn care for domestic use
- 18 Furnishings, fixtures and other assistive products for supporting activities in indoor and outdoor human-made environments
 - 18 03 Tables
 - 18 06 Light fixtures
 - 18 09 Sitting furniture
 - 18 10 Accessories for sitting furniture
 - 18 12 Beds and bed equipment
 - 18 15 Assistive products for height adjustment of furniture
 - 18 18 Supporting handrails and grab bars
 - 18 21 Gate, door, window and curtain openers/closers
 - 18 24 Construction elements in homes and other premises
 - 18 30 Assistive products for vertical accessibility
 - 18 33 Safety equipment for homes and other premises
 - 18 36 Furniture for storage
- 22 Assistive products for communication and information management
 - 22 03 Assistive products for seeing
 - 22 06 Assistive products for hearing
 - 22 09 Assistive products for voice and speech functions
 - 22 13 Assistive products for reading, writing and drawing
 - 22 15 Assistive products for calculation and training basic arithmetic
 - 22 18 Assistive products that record, play and display audio and visual information
 - 22 21 Assistive products for face-to-face communication
 - 22 24 Assistive products for distant communication

- 22 28 Assistive products for indication of time, planning, memory, and structuring
- 22 29 Assistive products for signalling, alarming, monitoring, and identifying
- 22 31 Assistive products for learning languages
- 22 33 Computers and terminals
- 22 39 Output devices
- 22 45 Assistive products for orientation
- 24 Assistive products for controlling, carrying, moving and handling objects and devices
- 24 06 Assistive products for handling containers
- 24 09 Mechanical assistive products for operation and controlling devices
- 24 13 Electronic assistive products for operation and controlling devices
- 24 18 Assistive products to assist or replace arm function, hand function, finger function or combination of these functions
- 24 21 Assistive products for extended reach
- 24 24 Assistive products for positioning
- 24 27 Assistive products for fixation
- 24 36 Assistive products for carrying and transporting
- 27 Assistive products for controlling, adapting or measuring elements of physical environments
<https://standards.iteh.ai/catalog/standards/sist/ca3601cf30e8-4768-b42e-cf7661478de3/iso-9999-2022>
- 27 03 Assistive products for environmental improvement
- 27 06 Measuring instruments
- 28 Assistive products for work activities and participation in employment
- 28 03 Workplace furniture and furnishing elements
- 28 06 Assistive products for transporting objects in workplaces
- 28 09 Assistive products for hoisting and repositioning objects in workplaces
- 28 12 Assistive products for fixing, reaching and grasping objects in workplaces
- 28 15 Machines and tools for use in workplaces
- 28 18 Devices for testing and monitoring in workplaces
- 28 21 Assistive products for office administration, information storage and management at work
- 28 24 Assistive products for health protection and safety in workplaces
- 28 27 Assistive products for vocational assessment and vocational training
- 30 Assistive products for recreation and leisure
- 30 03 Assistive products for play
- 30 09 Assistive products for sports