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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 11199-2

April 2005

ICS 11.180.10

Supersedes EN ISO 11199-2:1999

English version

Walking aids manipulated by both arms - Requirements and test methods - Part 2: Rollators (ISO 11199-2:2005)

Aides à la marche manipulées avec les deux bras -
Exigences et méthodes d'essai - Partie 2: Déambulateurs
(ISO 11199-2:2005)

Gehhilfen für beidarmige Handhabung - Anforderungen und
Prüfverfahren - Teil 2: Rollatoren (ISO 11199-2:2005)

This European Standard was approved by CEN on 14 April 2005.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN ISO 11199-2:2005 (E)**Foreword**

This document (EN ISO 11199-2:2005) has been prepared by Technical Committee ISO/TC 173 "Technical systems and aids for disabled or handicapped persons" in collaboration with Technical Committee CEN/TC 293 "Technical aids for disabled persons", the secretariat of which is held by SIS.

This document supersedes EN ISO 11199-2:1999.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2005, and conflicting national standards shall be withdrawn at the latest by October 2005.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Endorsement notice

The text of ISO 11199-2:2005 has been approved by CEN as EN ISO 11199-2:2005 without any modifications.

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INTERNATIONAL
STANDARD

ISO
11199-2

Second edition
2005-04-15

**Walking aids manipulated by both
arms — Requirements and test
methods —**

**Part 2:
Rollators**

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*Aides à la marche manipulées avec les deux bras — Exigences et
méthodes d'essai —*
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Partie 2: Déambulateurs

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 11199-2 was prepared by Technical Committee ISO/TC 173, *Assistive products for persons with disability*.

This second edition cancels and replaces the first edition (ISO 11199-2:1999), which has been technically revised.

ISO 11199 consists of the following parts, under the general title *Walking aids manipulated by both arms — Requirements and test methods*:

- *Part 1: Walking frames* <https://standards.iteh.ai/catalog/standards/sist/305abb92-6d64-4f60-9b14-fc04a30b3673/sist-en-iso-11199-2-2005>
- *Part 2: Rollators*
- *Part 3: Walking tables*

Walking aids manipulated by both arms — Requirements and test methods —

Part 2: Rollators

1 Scope

This part of ISO 11199 specifies requirements and methods of testing the static stability braking capabilities, static strength and fatigue of rollators being used as walking aids with wheels, manipulated by the hands, without accessories, unless specified in the particular test procedure. This part of ISO 11199 also gives requirements relating to safety, ergonomics, performance, and information supplied by the manufacturer including marking and labelling.

The requirements and tests are based on every-day usage of rollators as walking aids, for a maximum user mass as specified by the manufacturer. This part of ISO 11199 includes rollators specified for a user mass of no less than 35 kg.

This part of ISO 11199 is not applicable to rollators with horizontal forearm supports, classified as walking tables, for which ISO 11199-3 is applicable.

NOTE Recommendations further to the requirements given in this part of ISO 11199 are given in an Annex A.

2 Normative references

The following referenced documents are indispensable for the application 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 9999:2002, *Technical aids for persons with disabilities — Classification and terminology*

EN 1041, *Information supplied by the manufacturer with medical devices*

3 Terms and definitions

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

3.1

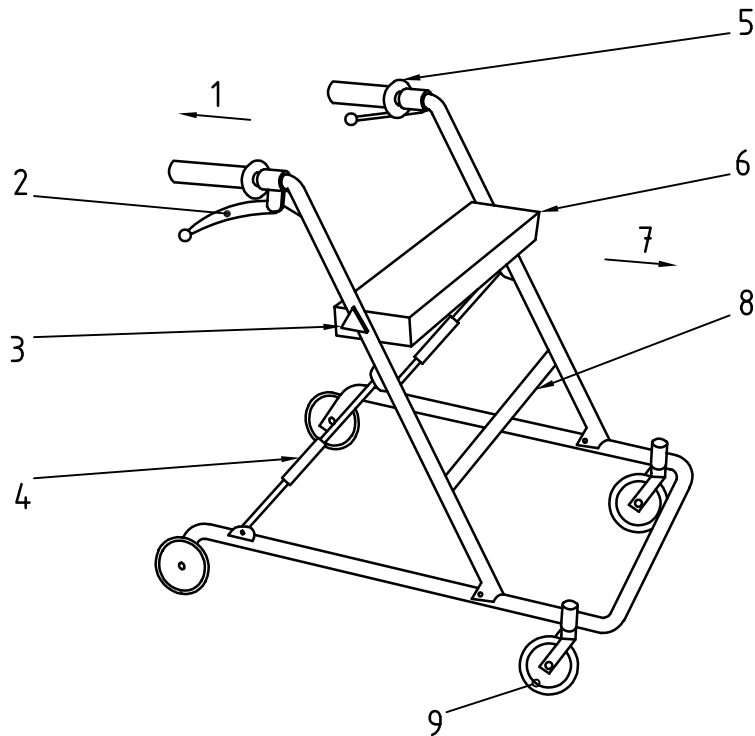
rollator

walking aids with built-in handgrips and three or more legs of which two or more are having wheels, which provide support whilst walking

See Figure 1.

NOTE Rollators include equipment with a seat for resting, as specified in ISO 9999:2002, Classification No. 12 06 06.

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**Key**

- | | | | |
|---|-----------------------------|---|----------------|
| 1 | rear | 6 | resting seat |
| 2 | brake handle | 7 | front |
| 3 | height adjustment mechanism | 8 | bracing member |
| 4 | folding mechanism | 9 | wheels |
| 5 | handle/handgrip | | |

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Figure 1 — Example of components of a rollator

3.2**user mass**

body mass of the person using the product as a walking aid

3.3**maximum length**

maximum outside dimension of a rollator when the height adjustment is at its maximum, measured parallel to the direction of straight forward movement when the rollator is in normal use

See Figure 2.

3.4**maximum width**

maximum outside dimension of a rollator when all adjustments are at their maximum, measured at right angles to the direction of straight forward movement when the rollator is in normal use

See Figure 2.

3.5**rollator height**

vertical distance from the rear handgrip reference point to the ground

See Figure 2.

3.6 turning width

minimum distance between two parallel limiting walls in between which a rollator can be turned 180° around its own central vertical axis

See Figure 2.

NOTE The adjustments are to be at their maximum

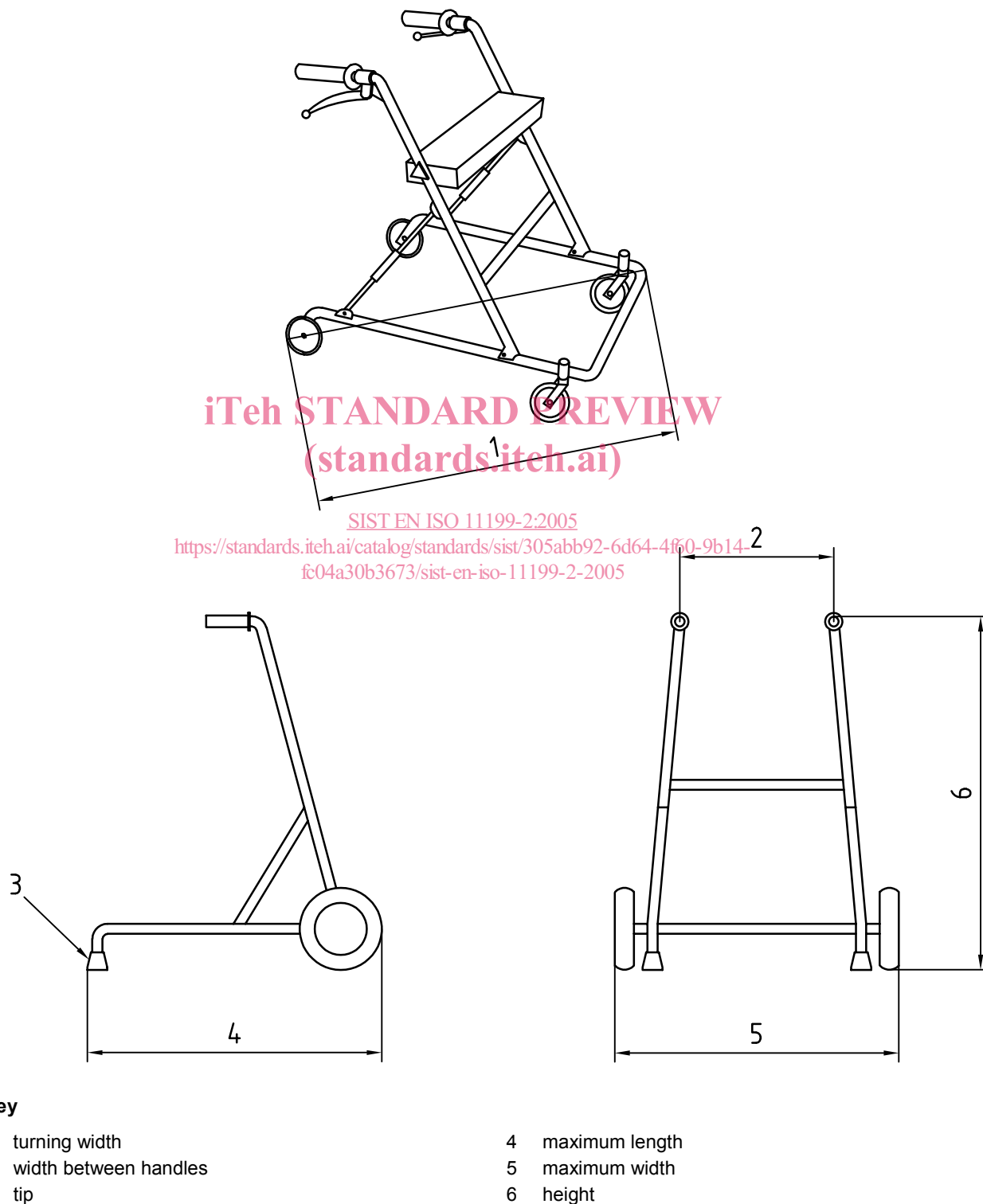


Figure 2 — Nomenclature of maximum dimensions for a rollator

ISO 11199-2:2005(E)**3.7****folded dimensions**

height, width and length of the rollator measured with the rollator folded together without the use of tools, all adjustments at their minimum

3.8**handgrip**

that part of the rollator which is intended by the manufacturer to be held by the hand when the rollator is in use

See Figure 3.

3.9**handle**

that part of the rollator to which the handgrip is attached

3.10**front handgrip reference point**

that point on the upper surface of the handgrip located 30 mm inwards from the front end of the handgrip length

See Figure 3.

3.11**rear handgrip reference point**

that point on the upper surface of the handgrip located 30 mm inwards from the rear end of the handgrip length

See Figure 3.

3.12**handgrip length**

dimension of the handgrip measured longitudinally where the hand rests

See Figure 3.

NOTE Where the front end or the rear end of the handgrip is not clear, the full length of the handgrip that may comfortably support the mass of the user is defined as the handgrip length.

3.13**handgrip width**

outside dimension of the handgrip measured horizontally at the thickest point where the hand rests

See Figure 3.

3.14**brake grip distance**

distance measured, with the brake handle in the neutral position, at the midpoint of the handgrip length and normal to the centreline of the handle tubing, from the upper surface of the handgrip to the lower surface of the brake handle

See Figure 4.