

# International Standard



# 7930

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

## Wheelchairs — Type classification based on appearance characteristics

*Fauteuils roulants — Classification par type fondée sur les caractéristiques d'aspect*

First edition — 1986-05-15

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

ISO 7930:1986

<https://standards.iteh.ai/catalog/standards/sist/0e7c46c9-fc7a-4229-b8b9-12c4f13ff59c/iso-7930-1986>

UDC 615.478.32 : 001.4

Ref. No. ISO 7930-1986 (E)

Descriptors : wheel chairs, classification.

Price based on 2 pages

## 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7930 was prepared by Technical Committee ISO/TC 173, *Technical systems and aids for disabled or handicapped persons*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

iTeh STANDARD PREVIEW  
(standards.iteh.ai)

ISO 7930:1986  
<https://standards.iteh.ai/catalog/standards/sist/0e7c46c9-fc7a-4229-b8b9-12c4f13ff59c/iso-7930-1986>

# Wheelchairs — Type classification based on appearance characteristics

## 1 Scope and field of application

This International Standard specifies a method for classifying and designating different types of wheelchairs and is based on readily evident or easily measured features of a wheelchair.

## 2 Description of the classification

The classification uses a five-digit code in which each digit specifies particular types within each group. Each classification position shall be separated by a hyphen (e.g. 1-1-1-1-1).

The classification is intended to give a general indication of the wheelchair in terms of its most important features. By the addition of further digits, the classification may be extended to cover additional features or to include test data, as desired.

NOTE — The need to extend the classification may arise in certain countries.

### 2.1 First digit: Means of propulsion/steering

The means of propulsion/steering of the wheelchair shall be designated according to the following types:

**Type 1** Attendant controlled — non-powered

**Type 2** Non-powered direct drive on rear wheels, bimanual

**Type 3** Non-powered direct drive on front wheels, bimanual

**Type 4** Non-powered lever drive, bimanual

**Type 5** Non-powered single-sided drive

**Type 6** Non-powered foot propulsion

**Type 7** Attendant controlled — powered

**Type 8** Electromotor for drive, manual steering

**Type 9** Electromotor for drive, power steering

**Type 0** Others

### 2.2 Second digit: Area of use based on overall width and wheel diameters

The wheel diameter and overall chair width combination shall be designated as given in table 1.

NOTE — The second digit gives an overall indication of the suitability of a wheelchair for use on any given terrain and the suitability for any given activity of the occupant. Other digits may also have a bearing on these. The number 0 for the second digit shall indicate any special design such as a wheelchair having an overall width exceeding 700 mm.

### 2.3 Third digit: Seat and backrest adjustments

The combination of seat and backrest adjustments shall be designated as given in table 2.

Table 2

Seat inclination \ Backrest inclination	Not adjustable	Manually adjustable	Power adjustable
Not adjustable	1	4	7
Manually adjustable	2	5	8
Power adjustable	3	6	9

The number 0 for the third digit shall indicate either that the wheelchair is supplied without a seat or a backrest, or that the wheelchair features a fixed angle between seat and backrest, the whole body support system being adjustable.

Table 1

Wheel diameter \ Overall chair width	All wheels less than 260 mm or 1 or 2 wheels less than 180 mm	Large wheels greater than 260 mm; small wheels 180 to 260 mm	All wheels greater than 260 mm
Below 550 mm	1	4	7
550 to 660 mm	2	5	8
660 to 700 mm	3	6	9

2.4 Fourth digit: Armrest and leg support adjustments

The combination of armrest and leg support adjustments shall be designated as given in table 3.

Table 3

Leg support angle \ Armrest			
	Fixed	Height adjustable	Removable (folding or exchangeable)
Not adjustable	1	4	7
Manually adjustable	2	5	8
Power adjustable	3	6	9

If the wheelchair is supplied with armrests that are both height adjustable and removable, the number for the fourth digit shall be that designated for height adjustable armrests.

The number 0 for the fourth digit shall indicate that either armrests or leg support are not provided.

2.5 Fifth digit: Foldability

The manner in which the overall dimensions of the wheelchair can be reduced shall be designated according to the following types:

Type 1 Rigid wheelchairs

If the overall dimensions of the wheelchair cannot be reduced, the fifth digit shall be designated as 1.

Type 2 Wheelable foldable wheelchairs

If the overall dimensions of the wheelchair can be reduced in one or more directions without any component part being removed and still allow the use of the wheels for movement when folded, the fifth digit shall be designated as 2.

Type 3 Non-wheelable foldable wheelchairs

If the overall dimensions of the wheelchair can be reduced in one or more directions without being removed, but folding prevents the use of the wheels for movement when folded, the fifth digit shall be designated as 3.

Type 4 Demountable wheelchairs

If the overall dimensions of the wheelchair can be reduced by separating it into component parts without the use of tools, the fifth digit shall be designated as 4.

Type 5 Demountable/wheelable foldable wheelchairs

If the wheelchair is foldable and its dimensions or mass may be further reduced by separating one or more component parts without the use of tools, and it still allows the use of the wheels for movement of the folded wheelchair, the fifth digit shall be designated as 5.

Type 6 Demountable/non-wheelable foldable wheelchairs

If the wheelchair is foldable and its dimensions or mass may be further reduced by separating one or more component parts without the use of tools, and folding prevents the use of the wheels for movement when folded, the fifth digit shall be designated as 6.