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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/Z 41082.2-2023

**Wheelchairs - Part 2: Typical values and recommended limits of
dimensions, mass and manoeuvring space as determined in
GB/Z 18029.5**

(English Translation)

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Table of Contents

Preface	
Introduction	
1 Scope	
2 Normative references	
3 Terms and Definitions	
4 Wheelchair Group	
4.1 General	
4.2 Manual wheelchair	
4.3 Class A electric wheelchair	
4.4 Class B electric wheelchair	
4.5 Class C electric wheelchair	
4.6 Electric wheelchair (electric scooter design)	
5 Typical values and recommended limits for required measurements	
5.1 General	
5.2 Total length	
5.3 Overall width	
5.4 Glove height	
5.5 Folding length	
5.6 Folding width	
5.7 Folding height	
5.8 Front wheel lifting distance	
5.9 Total mass	
5.10 The heaviest mass part	
5.11 Pivot width	
5.12 Commutation width	
5.13 Turning diameter	
5.14 Ground distance	
5.15 Required width of corner passage	
5.16 Required depth for entry	
5.17 Required channel width for side entry and exit	
6 Typical values and recommended limits for technical dimensions	
6.1 Reduced overall length	

- 6.2 Overall height
- 6.3 Wheel radial runout of passenger mass of Group I, Group II and Group III21
- 6.4 Wheel end runout of passenger mass of Group I, Group II and Group III
- 6.5 Hand ring radial runout of passenger mass of Group I, Group II and Group III
- 6.6 Hand ring end surface runout of passenger mass of Group I, Group II and Group III22
- 6.7 Total length
- 6.8 Reduced ride length
- 6.9 Ride width
- 6.10 Ride height
- 6.11 Ramp transition angle
- 6.12 wheelbase
- 6.13 Rear wheel distance
- 6.14 Front wheel distance
- 6.15 Camber angle
- 6.16 Toe angle of mass of passengers of Group I, Group II and Group III32
- 6.17 Axle misalignment of passenger mass of Group I, Group II and Group III33
- 6.18 Caster angle for passenger mass of Group I, Group II and Group III
- 6.19 Caster cut-off angle for passenger mass of Group I, Group II and Group III
- 6.20 Caster trailing distance for passenger mass of Group I, Group II and Group III
- 6.21 Improper casters for group I, group II and group III passenger mass

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents" Drafting:

This document is Part 2 of GB/Z 41082 "Wheelchair Vehicles": GB/Z 41082 "Wheelchair Vehicles" has released the following parts:

---Part 1: GB/T 18029 series application guide on wheelchairs:

---Part 2: Typical values and recommended limit values of size, quality and operating space measured according to GB/Z 18029.5:

This document is equivalent to ISO/T R13570-2:2014 "Wheelchairs Part 2: Dimensions, quality and handling measured according to ISO 7176-5 "Typical values and recommended limit values of operating space", the file type is adjusted from ISO 's technical report to my country's national standardization guiding technology document:

This document has made the following minimal editorial changes:

---In order to coordinate with the existing standards, the name of the standard is changed to "Wheelchairs Part 2: Dimensions and quality measured according to GB/Z 18029.5 and operating space typical values and recommended limits:" Please note that some content in this document may be subject to patents: The publisher of this document assumes no responsibility for identifying patents:

Introduction

GB/Z 41082 aims to promote the popularization, publicity and correct use of the GB/T 18029 series wheelchair standards in the industry: It is planned to be developed by two departments Composition:

---Part 1: GB/T 18029 series application guide on wheelchairs;

---Part 2: Typical values and recommended limit values of size, quality and operating space measured according to GB/Z 18029.5:

This document provides typical values of important dimensions and masses for a wide range of manual and electric wheelchairs (including electric scooters):

Collect sufficient evidence) and recommend limit values: The existing typical values are based on sampling data at the end of 2011: These values are grouped by Reflects the importance and usefulness to different standards user groups: Typical values in the file are reliable numbers obtained after sufficient sampling Data, marked with "()" indicates values where the current data is insufficient and data are solicited to be supplemented in future versions:

These user groups are:

---Wheelchair riders---Evaluate the important values of required space and maneuverability;

---Buildings and public institutions---Related to the barrier-free design of wheelchairs entering and exiting residences, elevators, kitchens and bathrooms, and public buildings, etc:

value;

---Manufacturers, wheelchair suppliers, clinicians and testers---Required when manufacturing, assembling, adjusting, repairing or testing wheelchairs value considered:

The core content of this document mainly consists of two chapters:

Chapter 5 gives typical values and recommended limits for the most important wheelchair dimensions and masses for wheelchair users (see Definition and testing of ISO 7176-5 Chapter 8 "Test Requirements"): Before purchasing a wheelchair, users can judge the size of the wheelchair based on these dimensions:

Whether it is suitable for their specific requirements and needs, and also provides guidance for wheelchair manufacturers in product development: These dimensions inform wheelchair users of the wheelchair required space, and also helps architects to design buildings and environments with no barriers:

Chapter 6 gives typical values and recommended limit values of supplementary dimensions that have a large impact on wheelchair performance (drive, steering, trajectory tracking, etc.) (See ISO 7176-5 Appendix A "Technical Dimensions" for definitions and tests): Technicians design, manufacture, test, repair, assemble and even adjust when using a wheelchair, it is necessary to understand these values:

data collection initiative Although great efforts and work have been put into collecting the data in the tables of this document, there are still some data in the tables that are not Sufficient values are marked "()": Therefore, any manufacturer, institution or expert who can provide relevant supplementary data, especially to fill in the blanks in the table any useful information you can find can be fed back to us:

If possible, relevant materials containing the following supporting information should be submitted to us:

- a) Data collected;
- b) Type of wheelchair (with or without hand straps);
- c) If the test procedure of ISO 7176-5 is not used for measurement, the actual measurement method used;
- d) Mass of wheelchair passengers in Group I, II or III;
- e) Wheelchairs of Class A, B or C (for electric wheelchairs);
- f) The measured effective width of the wheelchair seat;
- g) sample size used to derive the data;
- h) Test whether the selection of wheelchairs meets the relevant requirements of Chapter 5 and Chapter 6 of ISO 7176-5, as well as the accuracy of wheelchair testing:

Whether the equipment is consistent with the requirements of Chapter 7 of ISO 7176-5:

Wheelchairs Part 2: According to GB/Z 18029.5 Typical values for measured dimensions, mass and operating space and recommended limits

1 Scope

This document gives typical values and recommended limits for dimensions measured in accordance with ISO 7176-5: This document gives (ready to ride and fold (or dismantled) typical values and recommended limits for important dimensions of wheelchairs in terms of space for rotation or reversal between restricting walls: