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

GB/T 18029.7-2009

**Wheelchairs -- Part 7: Measurement of seating and wheel
dimensions**

(English Translation)

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Foreword

GB/T 18029 "Wheelchair" consists of the following components.

Part 1. Determination of static stability Part 2. Determination of dynamic stability of electric wheelchairs Part 3. Determination of brakes - Part 4. Determination of energy consumption - Part 5. Determination of dimensions, quality and steering space Part 6. Determination of maximum speed, acceleration and deceleration of electric wheelchairs - Part 7. Measurement of seat and wheel dimensions - Part 8. Requirements and test methods for static strength, impact strength and fatigue strength Part 9. climatic test methods for electric wheelchairs Part 10. Determination of the capacity of electric wheelchair vehicles Part 11. Test dummy Part 13. Determination of test surface friction coefficient - Part 14. Electric wheelchair power and control systems - Requirements and test methods - Part 15. Requirements for information release, document issuance and identification - Part 16. Requirements and test methods for flame retardancy of seats (cushions) - Part 17. Interface of electric wheelchair control - Part 18. Up and down building - Part 19. Wheeled mobile devices for motor vehicles Part 20. Determination of the performance of standing wheelchairs Part 21. Requirements and test methods for electromagnetic compatibility Part 22. Regulating procedures - Part 23. Requirements and test methods for climbing staircase devices operated by caregivers - Part 24. Requirements and test methods for climbing stairings operated by occupants - Part 25. Requirements and test methods for batteries and chargers Part 26. Terminology this part is part 7 of GB/T 18029.

This part is equivalent to ISO 7176-7.:1998 "Wheelchair Part 7. Measurement of seat and wheel dimensions" (English version).

Appendix A to this section is a normative appendix, Appendix B is an informative appendix.

This part is made by the Ministry of Civil Affairs of the People's Republic of China.

This section is headed by the National Standardization Technical Committee for the Rehabilitation and Special Equipment for Persons with Disabilities (SAC/TC148).

This part of the drafting unit. National Rehabilitation Aids Research Center, the National Rehabilitation Aids Quality Supervision and Inspection Center, Shanghai mutual state medical equipment Limited company.

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GB/T 18029.7-2009/ISO 7176-7.:1998

Introduction

This part of GB/T 18029 ensures that the seat and wheel size information is provided by specifying a consistent, repeatable measurement method Comparable, while providing the relevant information required by the prescribing person.

The chair and wheels of the wheelchair tend to be deformable, with a certain profile or a soft structure, with almost no consistent reference point to make reliable measurements. In the past, because manufacturers use different measurement methods, making them unable to compare the results of the measurement.

In addition, sometimes the choice of measurement items is due to ease of measurement rather than depending on clinical use. For example, the seat depth of the sling seat passes through Often measured along the sling material, regardless of the gap between the back of the seat and the backrest. This gap is sometimes as wide as 5cm and a large degree of shadow the actual depth of the seat. In addition, adjustable parts can cause some problems. these adjustable parts affect each other, may produce a large number of potential Measurement data.

This part of GB/T 18029 first places a standard load block on the wheelchair seat. The two load blocks specify the adult and the corresponding size of the child. The structure of this load block can be flexibly changed flexibly and provides a reference point for ease of measurement. Due to measurement the position is described relative to the position of the load block, so the precise positioning of the load block is the basis for the repeatability of the measurement results. This part is right this is also specified in detail. Finally, in order to facilitate comparison of the data from different manufacturers' products, this section also contains a uniform format for the measurement results.

It is worth noting that wheelchair production is usually a series of models, including a basic

model and a series of derivatives Product. The key is to choose which model series to commission.

GB/T 18029.7-2009/ISO 7176-7.:1998 Wheelchair Part 7. measurement of seat and wheel dimensions

1 Scope

This part of GB/T 18029 specifies the measurement method for wheelchair seats and wheel dimensions.

This section applies to wheelchairs with indoor and outdoor movement and no more than 120km/h for disabled persons with a mass of not more than 120kg Vehicles and delivery vehicles, including the following wheelchairs and vehicles classified by GB/T 16432.

Manual steering of the electric wheelchair 122124 Power steering electric wheelchair 122127 A power wheelchair 122121 operated by a caregiver Manual wheelchair 122103 manipulated by caregiver Hands rear wheel drive wheelchair 122106 Hands front wheel drive wheelchair 122109 Hands swing lever wheel drive car 122112 Unilateral drive powered wheelchair (single or single) 122115 Foot drive wheelchair 122118 this part does not apply to wheelchairs with a seat width of less than 212mm.

This part of GB/T 18029 does not specify the nominal size of wheelchair seats and wheels.

Note: For this part of the wheelchair outside the scope of this part of GB/T 18029 may be given the provisions of the location should be measured. Designed for quality much more than the reference load (See Appendix A) and wheelchair trucks (elastic wheels and elastic seats) with compressible components, due to the compressible parts can not be completely compressed, the measurement may not be able to get the correct seat size.

2 Normative reference documents

The terms of this document are hereby incorporated by reference in this part of GB/T 18029. Any reference to the date of the text , All subsequent amendments (excluding corrigenda) or revisions do not apply to this part, however, encouragement of compliance under this section all parties discuss whether the latest versions of these documents can be used. For undated references, the latest edition applies to this section.

GB/T 14729 Wheelchair terminology (GB/T 14729-2000, eqv ISO 6440.:2000) GB/T 16432 Classification and terminology of aids for disabled persons (GB/T 16432-2004, ISO 9999.:2002, IDT) GB/T 18029.15 Wheelchairs - Part 15. Requirements for the issuance and identification of information (GB/T 18029.15-2008, ISO 7176-15.:1996, IDT)

3 Terms, definitions and abbreviations

GB/T 14729 and GB/T 18029.15 and the following terms, definitions and abbreviations apply to GB/T 18029 section.

Means for loading on a wheelchair seat and forming a measurement reference.

Load block (RLG) The bottom of the seat section (see Figure 1).

GB/T 18029.7-2009/ISO 7176-7.:1998