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Wheelchairs - Part 11: Test dummies

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for

Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents"
Drafting.

This document is Part 11 of GB/T 18029 "Wheelchair". GB/T 18029 has released the following parts.

- Part 1. Determination of static stability;
- Part 2. Determination of the dynamic stability of electric wheelchairs;
- Part 3. Determination of brakes;
- Part 4. Determination of the theoretical energy consumption of electric wheelchairs and electric scooters;
- Part 5. Determination of overall dimensions, quality and steering space;
- Part 6. Determination of the maximum speed, acceleration and deceleration of electric wheelchairs;
- Part 7. Measurement of seat and wheel size;
- Part 8. Requirements and test methods for static strength, impact strength and fatigue strength;
- Part 9. Climate test methods for electric wheelchairs;
- Part 10. Determination of obstacle crossing ability of electric wheelchairs;
- Part 11. Test dummy;
- Part 13. Determination of test surface friction coefficient;
- Part 14. Requirements and test methods for power and control systems of electric wheelchairs and electric scooters;
- Part 15. Information release, document issuance and labeling requirements;
- Part 19. Wheeled mobile devices that can be used as motor vehicle seats;
- Part 21. Electromagnetic compatibility requirements and test methods for electric wheelchairs, electric scooters and battery chargers;
- Part 22. Adjustment procedures;
- Part 26. Terminology.

This document replaces GB/T 18029.11-2008 "Wheelchair Part 11. Test Dummy", and GB/T 18029.11-2008

In comparison, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- a) The scope of the document has been changed (see Chapter 1, Chapter 1 of the.2008 edition);
- b) A chapter "Terms and Definitions" has been added (see Chapter 3);
- c) A chapter "Symbols and Abbreviations" has been added (see Chapter 4);
- d) The chapter "The positioning of the dummy on the wheelchair" is deleted (see Chapter 4 of the.2008 edition);
- e) A chapter "Test Equipment" has been added (see Chapter 5);
- f) The specifications and materials of the dummy have been changed (see Chapter 6 and Chapter 7, Chapter 3 of the.2008 edition);
- g) The quality range of the test dummy is changed (see Table 4 in 7.5, Table 1 in the.2008 edition);
- h) The requirements for the position of the center of mass of the test dummy and the position of the center of mass of each part (component) have been added (see 7.4 and 7.5);
- i) Added requirements for dummy used in standing posture (see 7.7);
- j) A normative appendix "Determination of the position of the total center of mass of the dummy for testing" has been added (see Appendix A);
- k) Deleted the normative appendix "Accelerated Meter Installation" (see Appendix A of the.2008 edition).

This document is equivalent to ISO 7176-11:2012 "Wheelchair Part 11: Test Dummy".

The Chinese documents that have consistent correspondence with the normatively cited international documents in this document are as follows.

---GB/T 18029.26-2014 Wheelchair Part 26: Terminology (ISO 7176-26:2007, IDT)

Introduction

According to the document user principle, GB/T 18029 "Wheelchair" stipulates that wheelchair users, manufacturers, testing agencies and other related parties pay attention to Requirements for the design, performance, testing, infrastructure, and information release of the wheelchair. GB/T 18029 is intended to consist of 22 parts.

---Part 1: Determination of static stability;

---Part 2: Determination of the dynamic stability of electric wheelchairs;

---Part 3: Determination of brakes;

- Part 4.Determination of the theoretical energy consumption of electric wheelchairs and electric scooters;
- Part 5.Determination of overall dimensions, quality and steering space;
- Part 6.Determination of the maximum speed, acceleration and deceleration of electric wheelchairs;
- Part 7.Measurement of seat and wheel size;
- Part 8.Requirements and test methods for static strength, impact strength and fatigue strength;
- Part 9.Climate test methods for electric wheelchairs;
- Part 10.Determination of obstacle crossing ability of electric wheelchairs;
- Part 11.Test dummy;
- Part 13.Determination of test surface friction coefficient;
- Part 14.Requirements and test methods for power and control systems of electric wheelchairs and electric scooters;
- Part 15.Information release, document issuance and labeling requirements;
- Part 16.Flame retardancy of posture fixtures;
- Part 19.Wheeled mobile devices that can be used as motor vehicle seats;
- Part 21.Electromagnetic compatibility requirements and test methods for electric wheelchairs, electric scooters and battery chargers;
- Part 22.Adjustment procedures;
- Part 25.Batteries and chargers for electric wheelchairs;
- Part 26.Terminology;
- Part 28.Requirements and test methods for stair climbing appliances;
- Part 30.Test methods and requirements for wheelchairs that change the occupant's posture.

Among them, Part 26 is terminology; Part 11 and Part 13 stipulate the infrastructure requirements for wheelchair testing; Part 22 regulates

The test preparation requirements are specified; Part 15 specifies the information release requirements; Part 1, Part 3, Part 5, Part 7, and Part 8

Part, Part 10, and Part 16 stipulate the general requirements and test methods for all wheelchairs (including manual and electric); Part 2,