International Standard 7176/5

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Wheelchairs — Part 5: Determination of overall dimensions, mass and turning space

Fauteuils roulants — Partie 5: Détermination des dimensions hors tout, de la masse et de l'espace de giration

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Foreword

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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 7176/5 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.

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Wheelchairs — Part 5: Determination of overall dimensions, mass and turning space

0 Introduction

ISO 7176 at present consists of the following parts:

Part 1: Determination of static stability.

Part 2: Determination of dynamic stability of electric wheelchairs.

Part 3: Determination of the efficiency of brakes.

Part 4: Determination of energy consumption of electric wheelchairs.

Part 5: Determination of overall dimensions, mass and turning space.

Part 6: Determination of maximum speed, acceleration and retardation for electric wheelchairs.

Part 7: Determination of seating dimensions — Definitions and measuring methods.

Part 8: Static, impact and fatigue strength for manual wheelchairs.

Part 9: Climatic tests for electric wheelchairs.

Part 10: Determination of the obstacle climbing ability of electric wheelchairs.

Part 11: Test dummies.

Part 12: Determination of tracking characteristics of manual wheelchairs.

Part 13: Determination of the coefficient of friction of test surfaces.

1 Scope and field of application

This part of ISO 7176 specifies methods for determining overall dimensions (both ready for occupation and folded), mass and minimum turning space of wheelchairs (manual and electric).

2 References

ISO 6440, *Wheelchairs — Nomenclature, terms and definitions.*

ISO 7193, *Wheelchairs — Maximum overall dimensions.*

ISO 7930, *Wheelchairs — Type classification based on appearance characteristics.* [1)]

3 Definitions

For the purposes of this part of ISO 7176, the definitions given in ISO 6440 and ISO 7193 apply.

4 Test wheelchair

4.1 The wheelchair shall be fitted with all the accessories (e.g. headrest, backrest extension) supplied by the manufacturer and shall be ready for occupation, but unoccupied.

4.2 Wheelchairs for special purposes shall be measured according to the purposes specified.

4.3 If a wheelchair has a variable wheelbase design, the measurements shall be taken at both extremes.

5 Overall dimensions

5.1 Dimensions of wheelchair ready for occupation

5.1.1 Overall length including leg support and footrest

Adjust the leg support/footrest so that the lowest point is 50 mm above the underlay and that the leg support is at an angle of 90° to the seat or the closest possible smaller angle.

1) At present at the stage of draft.