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

**GB/T 20404-2014**

Replacing GB/T 20404-2006

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**Hoists for the transfer of disabled persons -- Requirements and  
test methods**

功能障碍者移位机 要求和试验方法

**(English Translation)**

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### Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GB/T 20404-2006 "Technical requirements and test methods for lifting frames for disabled persons", this standard and the main technical changes compared with GB/T 20404-2006 are as follows.

--- Added terms and definitions for bathtub lifts, self-standing fixed lifts, stand-up and/or lift lifts (see 3.5, 3.15, 3.34);

--- Added requirements and test methods for bathtub lifts, self-supporting fixed lifts, stand-up and/or lift-type lifts (see section Chapter 10, Chapter 7, Chapter 6).

This standard uses the translation method equivalent to ISO 10535:2006 "Diffuser Requirements and Test Methods for Dysfunction Persons".

The documents of our country that have a consistent correspondence with the international documents referenced in this standard are as follows.

---GB/T 3768 Acoustic sound pressure method for the determination of noise source sound power level reflection surface above the envelope measurement surface simple method (GB/T 3768-1996, eqvISO 3746.1995);

--- GB/T 3785.1 Electroacoustic sound level meter Part 1. Specification (GB/T 3785.1-2010, IEC 61672-1:2002, IDT);

---GB 4208 enclosure protection grade (IP code) (GB 4208-2008, IEC 60529.:2001, IDT);

---GB/T 8685 Textile Maintenance Label Specification Symbol Method (GB/T 8685-2008, ISO 3758:2005, MOD);

--- GB/T 16886.1 Biological evaluation of medical devices - Part 1. Evaluation and testing in the process of risk management (GB/T 16886.1-2011, ISO 10993-1:2009, IDT);

---GB 17625.1 Electromagnetic compatibility limit harmonic current emission limit (device input current per phase  $\leq 16$  A) (GB 17625.1-2012, IEC 61000-3-2.:2009, IDT);

---GB/T 17626.3 Electromagnetic compatibility test and measurement technology RF electromagnetic field radiation immunity test (GB/T 17626.3-2006, IEC 61000-4-3:2002, IDT);

GB/T 18779.1 Geometrical Product Specifications (GPS) - Measurements - Part 1 Judgment rules for passing or failing inspection (GB/T 18779.1-2002, eqvISO 14253-1:1998);

---YY/T 0316 Medical Device Risk Management for Medical Devices (YY/T 0316-2008, ISO 14971:2007, IDT).

## Introduction

Studies have shown that caregivers have a heavy physical burden when caring for people with dysfunction. Use a lift to safely help dysfunctional people independently or complete the shift with the help of a caregiver.

Although, according to the normative reference document GB/T 16432-2004 of this standard, the name of this standard shall be "lifting frame for disabled persons" Requirements and Test Methods, but with the release of the revised version of GB/T 16432, the relevant terms of this standard have also been modified accordingly, the term "disability" "People" was changed to "dysfunction" and "lifting frame" was changed to "lifting machine".

Displacer requirements and test methods for dysfunction

## 1 Scope

This standard specifies the requirements and test methods for the dynamometer shifter and its body support unit in GB/T 16432-2004.

123603 Mobile lift with sling 123604 standing mobile lift 123606 mobile lift with hard seat

123609 Lifting trolley

123612 Fixed lift mounted on wall, floor and/or ceiling

123615 Fixed lift that is fixed and placed on another product 123618 fixed self-supporting lift 123621 body support unit for lift this standard does not apply to devices that transport people between floors.

This standard does not include methods for determining the ageing or corrosion of lifts and body support units.

The requirements of this standard are based on the needs of the dysfunctional person being lifted and the caregiver using the lift.

## 2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 16432-2004 Classification and terminology of assistive devices for persons with disabilities (ISO 9999:2002, IDT) ISO 3746 Acoustic sound pressure method for the determination of noise sources Sound power level Reflective surface above the envelope method for measuring the surface  
(Acous-tics-Determinationofsoundpowerlevelsandsoundenergylevelsofnoisesourcesusingso undpres-sure-Surveymethodusinganenvelopingmeasurementsurfaceoverareflectingplane)  
ISO 3758 Textiles-Carelabelingcodeusingsymbols ISO 10993-1 Biological evaluation of medical devices - Part 1. Assessment and testing (Biologicalevaluationofmedical devices-Part 1: Evaluationandtesting) ISO 14253-1 Product Geometrical Specifications (GPS) - Measurement and testing of workpieces and measuring equipment - Part 1 or unqualified decision rule  
[GeometricalProductSpecifications(GPS)-Inspectionbymeasurementof workpiecesandmeasuringequipment-Part 1:  
Decisionrulesforprovingconformanceornon-con-Formancewithspecifications] ISO 14971 Medical Device Risk Management for Medical Devices  
(Medicaldevices-Applicationofriskma-Nagementtomedicaldevices) IEC 60529 enclosure protection rating (IP code) [Degreesofprotectionprovidedbyenclosures(IPCode)] IEC 60601-1:2006 Medical electrical equipment - Part 1. General requirements for basic safety and basic performance (Medical electricalequipment-Part 1:  
Generalrequirementsforbasicsafetyandessentialperformance) IEC 60601-1-2:2005 Medical electrical equipment - Part 1-2. Safety general requirements Parallel standard.  
Electromagnetic compatibility requirements and Test (Medicalelectricequipment-Part 1-2. Generalrequirementsforsafety-Colateralstandard.