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

GB/T 13667.4-2013

Replacing GB/T 13667.4-2003

Steel book shelvesPart 4: Electric dense bookshelf

钢制书架 第4部分：电动密集书架

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Foreword

GB/T 13667 "steel shelves" is divided into four parts.

--- Part 1. Single, double column bookshelf;

--- Part 2. laminate type shelves;

--- Part 3. Manually intensive shelves;

--- Part 4. Electric intensive bookshelf. This section GB/T Part of 413,667. This section drafted in accordance with GB/T 1.1-2009 given rules. This Part replaces GB/T 13667.4-2003 "electric Bookshelf intensive technical conditions." This portion of the GB/T 13667.4-2003 "electric Movable shelves intensive technology "compared to, in addition to editorial changes outside the main technical changes are as follows:

--- Modify the "electric intensive Bookshelf", the definition of "controller", the term "protection" to "squeeze protection" and change the set Meaning content (see 3, 2003 edition of 3);

--- Remove the material requirements (2003 version 5.1);

--- Delete the column, siding and other parts requirements (2003 version 6.1);

--- Deleted phosphate gloss requirements (2003 version 6.3);

--- Modify the assembly requirements (see 53, 2003 version 6.4.);

--- Modify the stability requirements (see 55, 2003 version 6.7.);

- Modify the safety performance requirements (see 58, 2003 version 6.9.);
- The "size test" to "assembly requirements determination," and modify the test methods (see 63, 2003 version 7.1.);
- Modify the structural strength test method (see 66, 2003 version 7.7.);

1 Scope

GB/T 13667.4-2013 is the Chinese national standard on steel book shelves part 4: electric dense bookshelf, in the field of domestic and commercial equipment, entertainment, sport. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 31 December 2013 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 December 2014. Classification: ICS 97.140, CCS Y81. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This section GB/T 13667 specifies the electric intensive bookshelf terms and definitions, classification and nomenclature, requirements, test methods, inspection rules And signs, packaging, transportation and storage. This section applies to electric intensive bookshelf.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 3785.1-2010 Electric Acoustic Sound Level Meters - Part 1. Specification

GB 5226.1 mechanical and electrical safety of machinery - Electrical equipment - Part 1. General requirements

GB/T 9969 General Instructions industrial products

GB/T 13666 Books Supplies Equipment Model methodology

GB/T 13667.1-2003 steel shelves General technical conditions

GB/T 13667.3-2013 steel shelves - Part 3. Manually intensive Bookshelf

GB/T 16769-2008 Metal-cutting machine noise level measurements

3 Terms and Definitions

GB/T 13667.1-2003, GB/T 13667.3-2013 and as defined in the following terms and definitions are applicable to this document.

3.1 Electric intensive bookshelf electricdensebookshelf Drive motor through the controller, drive-intensive shelves on rails running from the movable frame columns and columns of the holder can be dispersed and tight Bookshelf column combo collections, mainly by the column, shelf, side panels, base beams, controller, drive motor, transmission, cables, lighting, rail And other component parts.

3.2 Controller controler Having a transceiver command control motor, the combination of modules to reach shelves intensive functional requirements.

3.3 Anti-squeeze protection anti-crushingprotectiondevice In the motor-driven intensive bookshelf runtime by photoelectric protection, pressure protection, etc. off the drive motor power to prevent in two columns Persons or goods between the extruded device.

4 Classification and Nomenclature

4.1 Naming Naming and Model methodology products should comply with GB/T 13666 of.

4.2 Classification and dimensions Product structure is shown in Figure 1. Classification and unit frame size of the product are shown in Table 1. Table 1 rack unit size in millimeters species size Height H width B depth T The movable frame columns 1900 to 2500, 400 to 600 900-1000 Column holder Duplex Bookshelf 1900 to 2500, 400 to 600 900-1000 Sided bookcase 1900 to 2500, from 200 to 300 900-1000

Note. The special specification according to the contract.

5 Requirements

5.1 Appearance Shall comply with GB/T 13667.3-2013's.

5.2 surface coating physical and chemical properties Shall comply with GB/T 13667.3-2013's.

5.3 assembly Shall comply with GB/T 13667.3-2013's.

5.4 Load Performance Shall comply with GB/T 13667.3-2013's.

5.5 Stability Shall comply with GB/T 13667.3-2013's.

5.6 Structural Strength Shall comply with GB/T 13667.3-2013's.

5.7 Functional requirements

5.7.1 Bookshelf intensive manipulation by the controller to run, open and close should be

flexible, non-blocking.

5.7.2 product may have selected a column, select the column indicates the lock, automatic sparse frame, automatic fault monitoring, automatic lighting and other functions, all functions should be normal.

5.7.3 The handle should be able to operate a power outage.

5.8 Safety Performance

5.8.1 motor drive, the handle should not be driven.

5.8.2 overhead transmission cable should not be wrapped, knotted, turned to the maximum position of the cable without tension phenomenon.

5.8.3 driving motor rated power should not exceed 150W. At least in the channel access, channel, chassis squeeze protection is provided between the column and the column 5.8.4. By photoelectric protection, pressure protection shape Type protection device should be reliable, once triggered, the frame column moving distance should be less than 10cm, and can automatically lock. Rerun the movable frame column , The mobile rack should be triggered manually disabled after unlocking.

5.8.5 channel access point such as the use of anti-extrusion photoelectric protection device, the sensor should be at least ground clearance (20 ± 5) cm and (80 ± 10) cm two installation, use other protective devices should achieve the same effect.

5.8.6 Each column should be installed manually movable frame security mechanical locks, mechanical locks manual safety, the movable frame column should not run.

5.8.7 Bookshelf intensive running speed of 0.05m/s ~ 0.15m/s.

5.8.8 electrical system shall comply with the provisions of GB 5226.1.

5.9 Noise Bookshelf intensive electric motor running in the state, noise level (A-weighted) overall running time should not exceed 70dB.

6 Test methods

6.1 Determination of appearance Performed according to GB/T 13667.3-2013 provisions.

6.2 Determination of surface coating physical and chemical properties Performed according to GB/T 13667.3-2013 provisions.

6.3 Determination of assembly requirements Performed according to GB/T 13667.3-2013 provisions.

6.4 Load Performance Measurement Performed according to GB/T 13667.3-2013 provisions.