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

GB/T 27547-2011

Elevating work platforms -- Mast-climbing work platforms

升降工作平台 导架爬升式工作平台

(English Translation)

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References

Foreword

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

This standard uses the redrafting method to modify and adopt ISO 16369:2007 "Elevating work platform guide frame climbing work platform".

Compared with ISO 16369:2007, the numbering of clauses and diagrams in this standard has changed. Appendix D lists this standard and ISO 16369:2007 comparison list of chapters and chart number changes.

Compared with ISO 16369:2007, this standard has technical differences, and the clauses related to these differences have been passed after the outer margins.

The set vertical single line (|) is marked. Appendix E gives the technical differences between this standard and ISO 16369:2007 and their reasons.

List.

This standard has made the following editorial changes.

---The national preface and preface of ISO 16369:2007 have been deleted, and the preface of this standard has been added;

---Chapter 1 has been modified as follows. Change the "Note" in the scope of ISO 16369:2007 to "Note 1", and change the scope of ISO 16369:2007 Replace paragraphs 5, 6, and 7 with "Note 2"; replace paragraphs 2, 3 and 4 in the scope of ISO 16369:2007 with one paragraph;

---ISO 13852 has been replaced by ISO 13857, and ISO 13857:2008 has been equivalently transformed into my country's national standard GB/T 23821-2009, included in the normative reference documents;

---According to the requirements of GB/T 1.1-2009, 6.2.2.4.4 adds an introduction;

--- According to the requirements of GB/T 1.1-2009, 7.1.2 delete the suspension section;

---Added Appendix D (informative appendix) "Changes in the number of clauses and charts of this standard compared with ISO 16369:2007";

--- Added Appendix E (informative appendix) "Technical differences between this standard and ISO 16369:2007 and their reasons".

This standard was proposed by China Machinery Industry Federation.

This standard is under the jurisdiction of the National Technical Committee for Standardization of Lifting Work Platforms (SAC/TC335).

The organization responsible for drafting this standard. Beijing Institute of Construction Mechanization.

Participated in the drafting of this standard. China Academy of Building Research Branch of Construction Mechanization, Hangzhou Saiqi Aerial Work Machinery Co., Ltd.

Company, Shanghai Institute of Building Research Co., Ltd., Shenzhen Huace Testing Technology Co., Ltd., Langfang Kaibo Construction Machinery Technology Co., Ltd.

Company, Liaoning Institute of Safety Science, Zhejiang Dingli Machinery Co., Ltd., Jiangsu Shenxi Construction Machinery Co., Ltd., Boyu (Wuxi) Technology Co., Ltd., Guangdong Yuhuaxing Construction Machinery Manufacturing Co., Ltd., Tianjin Xianghe Machinery Co., Ltd., Xiamen Compaq Machinery Co., Ltd.

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1 Scope

This standard specifies the special safety requirements of the guide frame climbing work platform (hereinafter referred to as MCWP). MCWP is made by manual or power Operate, temporarily installed, equipment that can carry one or more people for work.

Note 1: The vertical moving parts (work platforms) are also used to transport staff, equipment and materials to or from a certain construction location. These terms make MCWP is different from construction hoist.

Note 2: This standard distinguishes the hazards caused by the different stages of the equipment during the service life, and explains the elimination or reduction of these hazards and safe use Methods.

This standard does not specifically specify how to handle the process of handling, installing or dismantling, fixing or removing any materials or equipment that are not part of this MCWP the requirements for the hazards caused by the above, there is no special provision for the method of handling special hazardous materials.

This standard does not specifically stipulate the requirements for transporting personnel and materials to fixed landings. For such facilities, please refer to elevators or construction elevators and other related standard.

This standard also applies to permanently installed MCWP. For MCWP to which this standard applies, its operating platform is carried out through the drive system Lift, guide and move through guide frame. The guide frame and the independent support structure can be provided with or without lateral support. At the same time, this standard the MEWP in, applies to any of the following optional combinations.

- Single guide frame or multiple guide frame;
- With or without attached support;
- Fixed height guide frame or variable height guide frame;
- Vertical guide frame or a guide frame inclined 0°~30° from the vertical direction;
- Standing or hanging guide frame;
- Mobile or fixed underframe (chassis or underframe);
- Manual or power boost;
- Tow or drive on the work site without meeting the requirements of road traffic regulations;
- Driven by electric, pneumatic, hydraulic or internal combustion engine.

This standard does not apply to mobile elevating work platforms (MEWP) complying with ISO 16368, and high-altitude working baskets complying with EN1808 and the lifting platform conforming to EN1570.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article. For undated references, the latest version (including all amendments) applies to this document.

GB/T 3480.5 Calculation of load-carrying capacity of spur gears and helical gears Part 5: Strength and quality of materials (GB/T 3480.5-2008, ISO 6336-5:2003, IDT) GB/T 3811 Crane Design Code GB 4208 enclosure protection grade (IP code) (GB 4208-2008, IEC 60529:2001, IDT) GB 5226.1 Electrical safety of machinery Electrical equipment of machinery Part 1: General technical conditions (GB 5226.1-2008, IEC 60204-1:2005, IDT) GB 8898 audio, video and similar electronic equipment safety requirements (GB 8898-2001, eqv IEC 60065:1998) GB 14048.5-2008 Low-voltage switchgear and control equipment Part 5-1. Control circuit appliances and switch components electromechanical