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

GB 25849-2010

Replacing GB/T 25849-2010

**Mobile elevating work platforms - Design, calculations, safety
requirements and test methods**

移动式升降工作平台 设计计算、安全要求和测试方法

(English Translation)

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Table of Contents

Preface	
Introduction	
1 Scope	
2 Normative references	
3 Terms and Definitions	
4 Safety requirements and/or protective measures	
4.1 Compliance	
4.2 Structural and stability calculations	
4.3 Chassis and stabilizers	
4.4 Extended structure	
4.5 Drive system of the extension structure	
4.6 Working platform	
4.7 Control device	
4.8 Electrical equipment	
4.9 Hydraulic system	
4.10 Hydraulic cylinder	
4.11 Safety devices	
5 Verification of safety requirements and/or protective measures	
5.1 Inspection and testing	
5.2 Type test	
5.3 Factory test	
6 Usage Information	
6.1 General requirements	
6.2 User Manual	
6.3 Sign	
Appendix A (Informative) Use of MEWPs in wind speeds greater than 12.5 m/s (Beaufort 6)	
Appendix B (Informative) Marking Examples	
B.1 Hanging point mark	
B.2 Auxiliary system position marking	
Appendix C (Normative) Calculation of Wire Rope Drive Systems	
C.1 Overview	

C.2 Calculation of wire rope drive system

C.3 Calculation of minimum wire rope diameter

C.4 Calculation of the diameter of the wire rope drum, wire rope pulley and compensating pulley

C.5 Efficiency of wire rope drive systems

Appendix D (Informative) Calculation Example. Wire Rope Drive System

D.1 Method

D.2 Calculation of the diameter of the wire rope drum, wire rope pulley and static pulley

Appendix E (Informative) Curb Test Calculation

E.1 Overview

E.2 Derivation of coefficient z

Appendix F (Normative) Instructions for Use

F.1 Overview

F.2 Operating Instructions

Appendix G (Normative) Additional requirements for wireless control devices and control systems

G.1 General requirements

G.2 Control Limits

G.3 Stop

G.4 Serial Data Communication

G.5 Using multiple operator control stations

G.6 Battery powered operator control station

G.7 Receiver

G.8 Warning

G.9 Usage Information

Appendix H (Informative) Hazard List

Appendix I (Informative) Comparison of structure numbers between this document and ISO 16368:2010

Appendix J (Informative) Technical differences between this document and ISO 16368:2010 and their causes

References

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 for standardization documents" Drafting is required.

This document replaces GB/T 25849-2010 "Design calculation, safety requirements and test methods for mobile lifting work platforms" and Compared with GB/T 25849-2010, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- Changed the scope (see Chapter 1, Chapter 1 of the 2010 edition);
- Changed the terms and definitions (see Chapter 3, Chapter 3 of the 2010 edition);
- Increased the minimum rated load to 120kg (see 4.2.1);
- Added dynamic stability requirements (see 4.2.3.6);
- Added the influence of stress concentration and ambient temperature (see 4.2.4.2.4);
- Changed the requirements for chassis inclination (see 4.3.2, 5.3.2 of the 2010 edition);
- Changed the requirements for the outrigger plate of the outrigger stabilizer (see 4.3.6, 5.3.6 of the 2010 edition);
- Added requirements for locking or control systems of floating bridges (see 4.3.14);
- Deleted the relevant requirements for protective devices for personnel in the operating position (see 5.3.18 of the 2010 edition);
- Changed the requirements for derailment and prevention of derailment (see 4.3.23, 5.3.23 of the 2010 edition);
- Deleted the requirements for tilted masts (see 5.4.3 of the 2010 edition);
- Changed the requirements for rolling in and shearing (see 4.4.3, 5.4.4 of the 2010 edition);
- Changed the speed requirements for extended structures (see 4.4.5, 5.4.6 of the 2010 edition);
- Changed some requirements for the braking system of all drives (see 4.5.1.6, 5.5.1.6 of the 2010 edition);
- Changed the maximum value of the tensile strength of the load-bearing wire rope (see 4.5.2.2, 5.5.2.2 of the 2010 edition);
- Changed the requirements for drum and pulley grooves (see 4.5.2.13, 5.5.2.13 of the 2010 edition);
- Changed the requirements for the horizontality of the working platform (see 4.6.1, 5.6.1 of the 2010 edition);
- Added working platform material requirements (see 4.6.2);
- Changed the requirements for guardrail (protection) systems (see 4.6.3, 5.6.2 of the

2010 edition);

- Added hanging point requirements (see 4.6.4);
- Changed the requirements for guardrail entrances and exits (see 4.6.5, 5.6.3 of the 2010 edition);
- Changed the requirements for access ladders (see 4.6.8, 5.6.6 of the 2010 edition);
- Changed the requirements for working platforms made of non-conductive materials (see 4.6.16, 5.6.14 of the 2010 edition);
- Added noise reduction requirements (see 4.6.17);
- Changed the control device requirements (see 4.7, 5.7 of the 2010 edition);
- Added electromagnetic compatibility requirements (see 4.8.6);
- Added timer requirements (see 4.8.7);
- Changed the breaking strength requirements for hoses and connectors (see 4.9.3, 5.9.3 of the 2010 edition);
- Deleted the requirement of "incorrect hose connection" (see 5.9.11 of the 2010 edition);
- Added dynamic fall protection hanging point test (see 5.1.4.2);
- Changed the stability test (see 5.1.4.3, 6.1.4.2 of the 2010 edition);
- Changed the overload test (see 5.1.4.4, 6.1.4.3 of the 2010 edition);
- Added vehicle-mounted MEWP overload and stability test and factory inspection (see 5.1.4.5 and 5.3.2);
- Changed the instruction manual requirements (see 6.2, 7.2 of the 2010 edition);
- Changed the responsible party sign (see 6.3.1, 7.3.1 of the 2010 edition);
- Added leveling instructions (see 6.3.17);
- Added additional requirements for wireless control devices and control systems (see Appendix G).

This document is modified to adopt ISO 16368:2010 "Mobile elevating work platforms - Design, calculations, safety requirements and test methods".

Compared with ISO 16368:2010, this document has many structural adjustments. The corresponding table of structural number changes between the two documents is as follows.

See Appendix I.

This document has many technical differences compared to ISO 16368:2010.