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

**GB/T 30032.2-2025**

Replacing GB/T 30032.2-2013

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**Mobile elevating work platforms - Design, calculations, safety  
requirements and test methods relative to special features -  
Part 2: MEWPs with non-conductive (insulating) components  
(English Translation)**

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Table 1. Insulation test values for MEWPs equipped with non-conductive (insulating) booms.

Table 2 Annual Insulation Test Values for MEWPs Equipped with Non-Conductive (Insulating) Arms

Table A.1 List of Major Hazards

## Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is based on GB/T 30032 "Design, Calculation, Safety Requirements and Test Methods for Mobile Lifting Work Platforms with Special Components".

Part 2 of GB/T 30032 has been published, including the following parts.

---Part 1: Mobile lifting work platforms equipped with telescopic guardrail systems;

---Part 2: Mobile lifting work platforms equipped with non-conductive (insulating) components;

---Part 3: Mobile lifting work platforms for orchards.

This document replaces GB/T 30032.2-2013 "Design, Calculation, Safety Requirements and Specifications of Mobile Lifting Work Platforms with Special Components".

Test Methods Part 2: Mobile Lifting Work Platforms Equipped with Non-Conductive (Insulating) Components, similar to GB/T 30032.2-2013.

Aside from structural adjustments and editorial changes, the main technical changes are as follows.

- a) Added operating voltage limit information for power distribution lines (see Chapter 1);
- b) General safety and protection requirements have been added (see 4.1);
- c) The structural requirements have been changed (see 4.2, 5.1 in the 2013 version);

- d) Requirements for non-conductive hydraulic and pneumatic hoses have been changed (see 4.4, 5.3 of the 2013 edition);
- e) The platform requirements have been changed (see 4.5, 5.4 in the 2013 version);
- f) The requirement for vacuum protection systems has been removed (see 5.5.2 in the 2013 edition);
- g) The electrical requirements for hydraulic and pneumatic hoses have been changed (see 4.6.2, 5.5.3 of the 2013 edition);
- h) The electrical requirements for permanent test electrodes of MEWPs with non-conductive (insulating) components have been changed (see 4.6.3, 2013 edition). 5.5.4);
- i) Increased requirements for inspection and testing (see 5.1, 5.2, and 5.3);
- j) The type testing requirement has been removed (see 6.1 in the 2013 edition);
- k) The test voltage requirements for MEWPs equipped with chassis insulation systems have been changed (see 5.4.2.2, 6.2.2 in the 2013 version);
- l) Electrical testing has been modified (see 5.5, 6.3 in the 2013 edition);
- m) The requirements for responsible party signage have been changed (see 6.3.2, 7.3.2 of the 2013 version);
- (n) The annual mechanical inspection or testing requirements have been changed (see 7.2.2, 8.2.2 in the 2013 version);
- o) The test voltage requirements for the chassis insulation system have been changed (see 7.2.4.4, 8.2.4.4 in the 2013 version);
- p) The test criteria for insulation lining have been changed (see 7.2.4.5, 8.2.4.5 in the 2013 version).

This document is modified to adopt ISO 16653-2:2021 "Mobile lifting work platforms with special components - Design, calculation and safety requirements".

Test methods, Part 2: Mobile lifting work platform equipped with non-conductive (insulating) components.

The technical differences between this document and ISO 16653-2:2021, and the reasons therefor, are as follows.

---The operating voltage and rated line voltage limits for power distribution lines have been changed from "46kV" to "35kV", and the frequency has been changed from "50Hz~60Hz" to...

"Power frequency" (see Chapter 1, 3.2, Tables 1 and 2) is used to conform to the actual

situation of my country's power grid;

---ISO 16368 and ISO 16368:2010 have been replaced by the normatively referenced GB/T 25849-2024 (see Chapter 3, 4.1.2).

(4.2, 4.5.2, 5.1.1, 6.1, 6.3.2), to adapt to my country's technical conditions and increase operability;

---The term "non-destructive testing" (see 3.4 of ISO 16653-2:2021) has been deleted, and its definition has been moved to a note in 7.2.2.2 to conform to...

Requirements of GB/T 1.1-2020;

---ISO 12100 (see 4.1.1) has been replaced with the normatively referenced GB/T 15706 to adapt to my country's technical conditions and increase operability.

Actual nature;

---IEC 61057 (see 4.4, 4.5.3, 4.5.4, 4.6.2, 4.6.3, 5.5.6) has been replaced by the normatively referenced GB/T 9465.

7.2.4.5), to adapt to my country's technological conditions and increase operability;

---Change "Insulating pads are installed under the wheels" to "Insulating pads are installed under the wheels and/or outriggers" [see 5.5.3m] to comply with product specifications.

Actual product condition;

---The normatively referenced GB/T 27548-2011 replaces ISO 18893, ISO 18893:2014 [see 6.1, 6.3.3c), 7.1, and GB/T 27548-2011.

7.2.2.1], to adapt to my country's technical conditions and increase operability.

The following editorial changes have been made to this document.

---Note 4.1.2 in ISO 16653-2:2021 has been removed;

---The informative reference to UL94-HB has been deleted, and IEC 60695-11-10 has been replaced by the informative reference GB/T 5169.16;

---The definition of "non-destructive testing" has been added.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China Machinery Industry Federation.

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