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

GB/T 43601-2024

**Mobile elevating work platforms - Operator's controls -
Actuation, displacement, location and method of operation
(English Translation)**

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Table of Contents

Preface	
1 Scope	
2 Normative references	
3 Terms and Definitions	
4 Control device operating force and operating torque	
5 Location of controls	
5.1 General requirements	
5.2 Working platform control device	
5.3 Base or Ground Controls	
5.4 Minimum spacing	
5.5 Partitions or protective covers	
6 Dimensions of the control device	
7 Control device operation	
7.1 General requirements	
7.2 Multifunctional joystick control device	
7.3 Multi-purpose control device	
7.4 Mode selection of multi-purpose control device	
7.5 Startup and Operation	
7.6 Enabling control device	
8 Arrangement of control devices	
8.1 General requirements	
8.2 Structure of the control panel	
8.3 Grouping of control devices	
8.4 Grouping of Group A MEWP control devices	
8.5 Grouping of Group B MEWP Control Devices	
8.6 MEWP with independent left and right side travel control devices	
9 Marking of control devices	
9.1 General requirements	
9.2 Text markings on control devices	
9.3 Symbols for control devices	
Reference	
Figure 1 Dimensions between a typical standing operator and the operating area	

Figure 2 Combined operation of the multi-function control device

Figure 3 Relative direction of the working platform control device and the working platform bottom plate

Figure 4 Orientation interval of the working platform for controlling the lifting and lowering of the extension structure

Figure 5 Orientation interval of the working platform for controlling walking

Table 1 Operating force and operating torque of control device

Table 2 Minimum spacing between controls on a console or similar surface

Table 3 Dimensions of commonly used control devices

Table 4 Operating characteristics of control devices located on the working platform

Table 5 Arrangement of working platform control devices for Group A MEWP

Table 6 Arrangement of working platform control devices for Group B MEWP

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.

This document is modified to adopt ISO 21455:2020 "Mobile elevating work platform operator control device operating force, operating direction, Operation location and operation method.

The technical differences between this document and ISO 21455:2020 and their reasons are as follows.

--- Replaced ISO 16368:2010 with the normative reference GB/T 25849-2024. The degree of consistency between the two documents is Modified to adapt to my country's technical conditions and increase operability (see 5.1, 5.3);

--- Change "For MEWPs operating in countries where national or other MEWP industry regulations allow a minimum guardrail height of 0.9m" to for "MEWPs with a minimum guardrail height of 0.9 m specified by the manufacturer and user" (see 5.2.4);

--- Changed the clause expression type, changing "should be basically consistent with the direction of MEWP response" to "should be consistent with the direction of MEWP response" "Basically the same" (see 7.1.1);

--- Added marking requirements for control devices (see 9.1.3);

--- Replaced ISO 20381 with the normative reference GB/T 33081 to adapt to my country's technical conditions and increase operability (see 9.3).

The following editorial changes were made to this document.

--- The informative reference GB/T 27548-2011 replaces ISO 18893:2014. The consistency between the two documents is Equivalence;

--- Modified the item number in 3.4 Terminology Source to be consistent with the terminology item number in GB/T 27548-2011;

--- Replaced ISO 16653-3:2011 with the informative reference GB/T 30032.3-2017. The consistency between the two documents is the degree is modified;

--- Deleted the reference to ISO 21455:2020, and added GB/T 27548-2011 and GB/T 30032.3-2017.

1 Scope

This document specifies the performance requirements, operating position and control devices for mobile elevating work platforms (hereinafter referred to as "MEWP") operator controls.

The location, signs and operation methods of the equipment are designed with consideration of operator safety and ergonomics.

This document applies to the manufacture and selection of all controls for operators that are operated by the thumb, fingers, hands and feet.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document.

GB/T 25849-2024 Design, calculation, safety requirements and test methods for mobile lifting work platforms (GB/T 25849-202x, ISO 16368:2010, MOD) GB/T 33081 Mobile elevating work platform operator control symbols and other markings (GB/T 33081-2016, ISO 20381:2009, IDT) symbols)

3 Terms and definitions

The terms and definitions defined in GB/T 25849-2024 and the following apply to this document.

Control device

A device operated by the operator that causes the MEWP to respond.

3.1.1

Primary control device Controls used by operators to control the movement of equipment travel or extension structure.

3.1.2

Secondary control device any control device (3.1) of a MEWP other than the main control device (3.1.1).

3.1.3

Multifunctional control A control device (3.1) that can provide two or more functions simultaneously.

NOTE A multi-function control device may also be a multi-purpose control device (3.1.4).

Examples. A control device that combines steering and travel, or a control device that combines slewing and boom raising and lowering.