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

GB 45187-2024

Fall protection - Climb auto system against fall

坠落防护 动力升降防坠落装置

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Table of Contents

1	Scope
2	Normative references
3	Terms and definitions
5	Technical requirements
5.1	Design Structure
5.2	Remote Control Device
5.3	Guide rails
5.5	Ascent speed
5.6	Static Strength
5.7	Load performance
5.8	Operational Reliability
5.10	Slow descent function
5.11	Overload Protection
5.12	Electromagnetic compatibility
5.13	Corrosion resistance
6	Test methods
6.2	Remote Control Device Test
6.3	Rail Test
6.4	Fall protection performance test
6.7	Load performance test
6.8	Operational reliability test
6.9	Dust and Water Resistance Test
6.10	Slow descent function test
6.11	Overload protection test
6.12	Electromagnetic compatibility test
6.13	Corrosion resistance test

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. Please note that

some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document is proposed and coordinated by the Ministry of Emergency Management of the People's Republic of China. Fall protection Power lift fall arrest device

1 Scope

GB 45187-2024 is the Chinese national standard on fall protection - climb auto system against fall, in the field of environment and health protection, safety. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 31 December 2024 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 January 2026. Classification: ICS 13.340.99, CCS C73. 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.

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 191 Pictorial markings for packaging, storage and transportation

GB/T 4208 Enclosure protection degree (IP code)

GB/T 10125 Artificial atmosphere corrosion test Salt spray test

GB/T 17799.2 General standard for electromagnetic compatibility Part

GB/T 24537-2009 Self-locking device for flexible guide rails of fall protection belts

GB 24542-2023 Self-locking device for rigid guide rails of fall protection belts

GB/T 30862-2014 Fall protection hanging point device

GB/T 38230-2019 Fall protection and descent control device

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Power lift anti-fall device climb auto system against fall A fall protection device that uses

an external power source or is driven by a battery to carry personnel and equipment up or down in the predetermined direction of the guide rail.

3.2 Fixed power lifting anti-fall device Fixed climb auto system against fall The guide rails must be permanently fixed to the surface of the structure. When in use, the platform carries personnel and equipment to rise or fall in the predetermined direction of the guide rails. Force lifting fall prevention device (3.1).

Note. It consists of guide rails, device body (platform), power device, etc.

3.3 Portable power lifting anti-fall device portable climb auto system against fall The guide rail does not need to be fixed on the surface of the structure. When in use, the device body rises or falls with the personnel and equipment in the predetermined direction of the guide rail. Power lifting fall prevention device (3.1).

Note. It consists of guide rails, device body, etc.

3.4 Device body load-bearing components The assembly of parts in a powered lift fall arrest device (3.1) that come into direct contact with personnel or equipment and bear the weight of the personnel and the main body.