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

GB 7956.24-2025

**Fire fighting vehicle - Part 24: Self-loading and unloading fire
fighting vehicle**

消防车 第24部分：自装卸式消防车

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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 Part 24 of GB 7956 "Fire Engines". GB 7956 has the following parts published.

- 1.General Technical Requirements;
- 2.Water Tanker Fire Truck;
- 3.Foam Fire Truck;
- 4.Dry Powder Fire Trucks;
- 5.Gas Fire Trucks;
- 6.Compressed Air Foam Fire Truck;
- 7.Pumped Fire Trucks;
- 8.High-Expansion Foam Fire Truck;
- 9.Water Mist Fire Truck;
- 10.Airport Fire Trucks;
- 11.Turbojet Fire Truck;
- 12.Aerial Fire Trucks;

1 Scope

GB 7956.24-2025 is the Chinese national standard on fire fighting vehicle - part 24: self-loading and unloading fire fighting vehicle, 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 2 December 2025 by the State Administration for Market Regulation; Standardization Administration of China, and takes effect on 1 January 2027. Classification: ICS 13.220.10, CCS C84. 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.

This document specifies the technical requirements, inspection rules, and packaging, transportation, and storage requirements for self-loading and unloading fire trucks, and describes the corresponding tests. method. This document applies to the design, manufacture, and inspection of self-loading fire trucks.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this

document; for undated references, the latest version (including all amendments) applies. This document.

GB 7956.1 Fire engines - Part

3 Terms and Definitions

The terms and definitions defined in GB 7956.1 and the following terms and definitions apply to this document.

3.1 Rated lifting capacity The total weight of the box that the lifting arm can lift or raise at the standard installation frame height (CH).

Note. Standard mounting frame height. $8t \leq F \leq 32t$, $CH=1050\text{mm}$; $3t \leq F < 8t$, $CH=900\text{mm}$; $F < 3t$, $CH = 700\text{mm}$.

3.2 lifting angle The angle between the module (equipment box) and the base frame during self-loading and unloading.

3.3 The self-loading and unloading device uses a hook-lift mechanism and is used for the rapid loading and unloading of modules (equipment boxes) containing fire-fighting equipment at disaster sites.

3.4 The self-loading and unloading system uses a crane-type mechanism and is used at disaster sites for the rapid loading and unloading of modules (equipment boxes) containing fire-fighting equipment.

3.5 The self-loading and unloading device is a leg-type device used for the rapid loading and unloading of modules (equipment boxes) containing fire-fighting equipment at disaster sites.