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

GB/T 47928.1-2026

**Industrial trucks - Lorry-mounted trucks - Part 1: Safety
requirements and verification**

工业车辆 卡车携带式叉车 第1部分：安全要求和验证

(English Translation)

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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 1 of GB/T 47928 "Industrial Vehicles - Truck-Mounted Forklifts". GB/T 47928 has been published as follows.

part.

---Part 1: Safety Requirements and Validation.

This document is equivalent to ISO 20297-1:2017 "Industrial vehicles - Truck-mounted forklifts - Part 1: Safety requirements and validation".

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 Industrial Vehicles (SAC/TC332).

Introduction

Truck-mounted forklifts have unique design features that allow them to be mounted on and moved along with transport vehicles; therefore, they are also known as "vehicle-mounted" forklifts.

"Pack-type forklift" or "backpack forklift". In developed countries, this equipment has formed a complete chain of technical standards covering design, manufacturing and application.

The safety and safe use requirements are in line with international standards to enhance the global competitiveness of truck-mounted forklift products.

GB/T 47928 "Industrial Vehicles - Truck-Mounted Forklifts" aims to establish the safety requirements and verification methods for truck-mounted forklifts.

Safety requirements for use. GB/T 47928 is proposed to be divided into the following parts.

---Part 1: Safety Requirements and Validation. The purpose is to specify the safety requirements and validation for truck-mounted forklifts.

---Part 2: Safety Requirements. This section aims to specify the safety requirements for the use of truck-mounted forklifts.

Industrial vehicle truck-mounted forklift Part 1: Safety Requirements and Validation

1 Scope

This document specifies the safety requirements and verification methods for industrial and off-road truck-mounted forklifts (hereinafter referred to as "forklifts").

This document applies to forklifts capable of self-loading onto transport vehicles. It does not apply to.

---Forklifts driving onto transport vehicles;

---Forklifts that are loaded onto transport vehicles using external means (e.g., cranes or other lifting devices).

This document covers all major hazards and hazardous conditions relating to the use of machinery as intended by the manufacturer and to foreseeable misuse.

Or hazardous events. Major hazards covered in this document are listed in Appendix A.

This document does not cover the dangers that may occur in the following situations.

---During the manufacturing process;

---When handling suspended loads that can swing freely;

---When used on highways;

---When used in potentially explosive atmospheres;

This document does not cover road safety requirements when a forklift is loaded onto a transport vehicle.

This document does not apply to forklifts manufactured prior to its publication.

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/T 10827.1-2014 Safety requirements and verification for industrial vehicles - Part 1: Self-propelled industrial vehicles (excluding driverless vehicles) (ISO 3691-1:2011, IDT)
GB/T 17922-2014 Laboratory tests and performance requirements for earthmoving machinery rollover protection structures (ISO 3471:2008, IDT) ISO 2328 Forklift trucks hook-on type fork and fork carriage mounting dimensions Note. GB/T 5184-2016 Mounting dimensions for forklift hook forks and fork carriages (ISO 2328:2011, IDT) ISO 2330 Technical requirements and test methods for forklift forks Note. GB/T 5182-2008 Technical requirements and test methods for forklift forks (ISO 2330:2002, IDT) Note. GB/T 17299-1998 Minimum inlet dimensions for earthmoving machinery (ISO 2860:1992, IDT) ISO 2867:2011 Earth-moving machinery access systems Note. GB/T 17300-2017 Earthmoving Machinery Access Devices (ISO 2867:2011, IDT) ISO 3449 Laboratory testing and performance requirements for earthmoving machinery falling object protection structures.