



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

GB/T 35205.5-2021

**Rough-terrain trucks - Safety requirements and verification -
Part 5: Interface between variable-reach truck and integrated
personnel work platform**

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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 of Standardization Documents"

Drafting.

This document is part 5 of GB/T 35205 "Safety Requirements and Verification for Cross-Country Forklifts". GB/T 35205 has released the following

section.

---Part 1. Telescopic forklift;

---Part 5. Connecting device of telescopic forklift and integrated personnel working platform.

The translation method used in this document is equivalent to ISO 10896-5:2015 "Off-road Vehicle Safety Requirements and Verification Part 5. Telescopic Arm Type

Connecting device of forklift and integral personnel working platform".

The Chinese documents that have consistent correspondence with the normatively cited international documents in this document are as follows.

---GB/T 15706-2012 General Principles of Machinery Safety Design Risk Assessment and

Risk Reduction (ISO 12100.2010, IDT)

---GB/T 16855.1-2008 Safety related components of machinery safety control system Part 1.General design rules (ISO 13849-1.

2006, IDT)

---GB/T 35205.1-2017 Safety requirements and verification of cross-country forklifts Part 1.Telescopic forklifts (ISO 10896-1.

2012, IDT)

---GB/T 25849-2010 mobile elevating work platform design calculation, safety requirements and test methods (ISO 16368.

2003, MOD)

Compared with ISO 10896-5.2015, this document has editorial changes as follows.

---In order to be consistent with the existing standard series, the standard name is changed to ``cross-country forklift safety requirements and verification part 5.telescopic boom type

Connecting device of forklift and integrated personnel working platform;

---In accordance with the requirements of GB/T 1.1-2020, the title of 6.2.1 in ISO 10896-5.2015 has been deleted.

Introduction

With its unique structure and various attachments that can be equipped, cross-country forklifts are capable of working with many different types of vehicles.

The increase of forklift manufacturers and the strict foreign access requirements for entering their markets require standardization of the R&D and manufacturing of off-road forklifts to ensure their safety.

Requirements and verification requirements put forward the safety requirements and verification standards of our country's off-road forklifts in line with international standards.

GB/T 35205 aims to establish safety requirements and verification criteria for cross-country forklifts, in accordance with the international standard ISO 10896, which has been or planned

The released part, equivalently converted GB/T 35205, consists of seven parts.

---Part 1.Telescopic forklift. The purpose is to specify the safety requirements and verification of telescopic forklifts.

---Part 2.Rotary forklift. The purpose is to specify the safety requirements and verification of rotary forklifts.

---Part 3.Truck-mounted forklift. The purpose is to specify the safety requirements and verification of truck-mounted forklifts.

---Part 4.Additional requirements for lifting telescopic forklifts with freely swinging loads. The purpose is to specify that the hoisting can swing freely

Additional requirements for safety requirements and verification of load telescopic forklifts.

---Part 5.Connecting device of telescopic forklift and integrated personnel working platform. The purpose is to specify telescopic forklifts and

Safety requirements and verification of the connection device of the integrated personnel working platform.

---Part 6.Inclined cab. The purpose is to provide for the installation of inclined cabs on telescopic forklifts and rotary forklifts.

Safety requirements and verification.

---Part 7.Longitudinal load moment system. The purpose is to stipulate the design of the longitudinal load moment system used on off-road forklifts,

Safety requirements and verification methods.

This part of GB/T 35205 only relates to the connection device between the off-road telescopic forklift and the integrated personnel working platform.

The working platform is considered as a replaceable device.

Safety requirements and verification of cross-country forklifts

Part 5.Telescopic forklift and integrated

Connecting device for personnel working platform

1 Scope

This document specifies non-rotating or rotating cross-country telescopic forklifts (hereinafter referred to as "vehicles") and integrated personnel working platforms

(Hereinafter referred to as "integrated PWP") the design, safety requirements and verification methods of the connecting device.

This document does not involve design or safety requirements related to the personnel working platform itself. These requirements are included in the mobile elevating work platform

National standards and international standards.

This document does not apply to non-integrated personnel working platforms, which are not equipped with controls that affect their movement or interlock with the vehicle

Device.

2 Normative references

The contents of the following documents constitute the indispensable clauses of this document through normative references in the text. Among them, dated quotations

Only the version corresponding to that date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

This document.

ISO 10896-1 Cross-country forklift safety requirements and verification Part

1. Rough-terrain trucks-

Safety requirements and verification Part 1. Variable-reach trucks)

ISO 10896-2 Cross-country forklift safety requirements and verification Part 2. Rotary forklift (Rough-terrain trucks- Safety

requirements and verification Part 2. Slewing trucks)

ISO 12100 General Principles of Machinery Safety Design Risk Assessment and Risk Reduction (Safety of machinery- General

principles for design- Risk assessment and risk reduction)

ISO 13849-1. 2006 Safety related components of machinery safety control system Part

1. Design general (Safety of machin-

ery- Safety-related parts of control systems- Part 1. General principles for design)

ISO 16368 Mobile elevating work platform design calculation, safety requirements and test methods (Mobile elevating work plat-

forms- Design, calculation, safety requirements and test methods)

3 Terms and definitions

The following terms and definitions defined by ISO 10896-1, ISO 10896-2 and ISO 12100 apply to this document.

3.1

Interlocking device

Used to prevent dangerous machine functions from operating under certain conditions (usually as long as the protective device is not closed) mechanical, electrical or other

His type of device.