

ICS 53.060
CCS J 83



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

GB/T 42784.2-2025

**Rough-terrain trucks - Visibility test methods and their
verification - Part 2: Slewing rough-terrain variable-reach trucks
(English Translation)**

Issued on: May 30, 2025

Implemented on: December 1, 2025

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

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Reference

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 part 2 of GB/T 42784 "Test method for verifying the field of view of off-road forklifts". GB/T 42784 has been published the following parts.

--- Part 1: Telescopic forklifts;

--- Part 2: Rough terrain telescopic forklifts.

This document is equivalent to ISO 18063-2:2021 "Test method for verifying the field of view of off-road forklifts - Part 2: Off-road slewing and telescopic Boom Forklift.

Introduction

Off-road forklifts are used in many different types of vehicles due to their unique structure and various accessories.

It is widely used, and foreign countries already have a complete technical standard system for off-road forklifts. At present, some domestic manufacturers have also entered this field.

This document lays a technical foundation for my country's off-road forklift products to be in line with international standards and eliminate technical trade barriers.

GB/T 42784 aims to establish a test method for verifying the field of view of off-road forklifts and is intended to consist of two parts.

--- Part 1: Telescopic forklifts. The purpose is to determine the test method for verifying the field of view of off-road telescopic forklifts.

--- Part 2: Rough terrain telescopic forklifts. The purpose is to determine the test field of view of rough terrain telescopic forklifts.

Test method.

The "Scope" of this document defines the machinery involved and the hazards, hazardous conditions or hazardous events that they may cause.

This document is a Class C standard specified in GB/T 15706.

When the requirements of a Class C standard differ from those of a Class A or Class B standard, for machinery designed and manufactured in accordance with a Class C standard, the Class C standard shall be the requirements of a standard take precedence over the requirements of other standards.

Test method for verifying the field of view of off-road forklifts Part 2: Rough terrain telescopic forklifts

1 Scope

This document specifies the rectangular edge parameters used to determine and evaluate the operator's position around an all-terrain telescopic forklift (hereinafter referred to as the "forklift").

Static test method for the field of view at the horizon and the 12m field of view test circle. This document specifies the performance requirements for the field of view. Calculation methods can also be used or computer simulation.

This document applies to the operator position defined in 3.22 of ISO 5053-1:2020, which is located on the left side or in the center of the boom (excluding an off-road telescopic forklift with the operator's position located on the right side of the boom).

This document does not provide performance requirements for other methods of indirect vision.

This document also includes information that needs to be provided by the manufacturer.

2 Normative references

The contents of the following documents constitute 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 15706-2012 General principles for safety design of machinery - Risk assessment and risk reduction (ISO 12100:2010, IDT) GB/T 35205.2-2023 Safety requirements and

verification of off-road forklifts Part 2: Swivel forklifts (ISO 10896-2:2016, IDT) ISO 5053-1:2020 Industrial trucks - Vocabulary - Part 1: Industrial truck types Note. GB/T 6104.1-2018 Industrial Truck Terminology and Classification Part 1: Industrial Truck Types (ISO 5053-1:2015, IDT) ISO 5353:1995 Earth-moving machinery, agricultural tractors and machinery seats Note. GB/T 8591-2000 Earth-moving machinery driver seat calibration points (eqvISO 5353:1995)

3 Terms and definitions

The terms and definitions defined in GB/T 15706-2012, GB/T 35205.2-2023 and ISO 5053-1:2020 and the following terms and definitions apply in this document.

Test surface the area of compacted or hard ground forming the reference ground plane for the visual field test shall have a slope of no more than 3% in any direction.

The line connecting the filament of the light bulb 680 mm above and 20 mm in front of the seat index point (SIP) specified in ISO 5353:1995 midpoint.

Note: See Figure 1.