

ICS 53.060
CCS J 83



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

GB/T 6104.1-2025

Replacing GB/T 6104.1-2018

Industrial trucks - Vocabulary - Part 1: Types of industrial trucks

工业车辆 术语 第1部分：工业车辆类型

(English Translation)

Issued on: October 31, 2025

Implemented on: May 1, 2026

Issued by: State Administration for Market Regulation

Table of Contents

Preface
Introduction
1 Scope
2 Normative References
3 Terms and Definitions
Appendix A (Informative) Category
A.1 Classification by work method
A.2 Classification by power source
A.3 Classification by Wheel Type
A.4 Classification by Control Method
A.5 Classification by Lifting Height
A.6 Classification by Operating Mode
A.7 Classification Table
References
Index

Foreword

This document conforms to GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting is scheduled.

This document is Part 1 of GB/T 6104 "Terminology for Industrial Vehicles". GB/T 6104 has already published the following parts.

--Part 1: Types of Industrial Vehicles;

--Part 2: Forks and attachments.

This document supersedes GB/T 6104.1-2018 "Terminology and Classification of Industrial Vehicles Part 1: Types of Industrial Vehicles" and is consistent with...

Compared to GB/T 6104.1-2018, apart from structural adjustments and editorial changes, the main technical changes are as follows.

--Changes have been made to push-top forklifts, counterbalance forklifts, reach trucks, platform stackers, rough terrain forklifts, pallet stackers, and double-decker stackers.

Truck-mounted forklifts, walk-behind forklifts, walk-behind pallet stackers, walk-behind pallet trucks, and driverless vehicles.

Definitions (see 3.2, 3.3, 3.4, 3.5, 3.7, 3.12, 3.17, 3.26, 3.27, 3.28, 3.29, 3.32, and 3.2, 3.3, 3.4 in the 2018 edition).

3.5, 3.7, 3.12, 3.17, 3.26, 3.27, 3.28, 3.29, 3.32);

--The terminology and definitions for side-mounted forklifts, side-stacking forklifts, and three-way stacking forklifts have been changed (see 3.6, 3.8, 3.9, 2018).

Versions 3.6, 3.8, and 3.9).

--Added English equivalents for telescopic boom forklifts, off-road telescopic boom forklifts, and off-road slewing telescopic boom forklifts (see...) 3.20, 3.21, 3.22);

--The term "front-end crane" has been changed to allowable terminology (see 3.23, 2018 edition of 3.23).

--Added terms and definitions for hybrid vehicles, one-way operation, two-way operation, multi-way operation, directional operation, and dual-purpose operation (see...) (3.35, 3.36, 3.37, 3.38, 3.39 and 3.40).

--The categories of hybrid vehicles, one-way operation, two-way operation, multi-way operation, guided operation, unguided operation, and guided transportation have been removed from the classification list.

The provisions that can be used in both cases (see 2.2.2.7, 2.6.2, 2.6.3, 2.6.4, 2.6.5 and 2.6.6 in the 2018 version).

This document is modified to adopt ISO 5053-1:2020 "Industrial vehicles - Terminology - Part 1: Types of industrial vehicles".

This document has undergone the following structural adjustments compared to ISO 5053-1:2020.

--Appendix A corresponds to Appendix B of ISO 5053-1:2020.

The following editorial changes have been made to this document.

--Appendix A (Informative) "List of Corresponding Terms in German, Chinese and Italian" has been deleted, and references to appendices in the document have also been removed.

Note A;

-- An index has been added.

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/TC 332).

Introduction

This terminology standard defines the terms and definitions related to vehicle types in the industrial vehicle industry. Currently, my country's industrial vehicle products...

With a wide variety of types, the development and revision of this terminology standard has significant guiding significance for all aspects of industrial vehicle design, manufacturing, and maintenance.

Furthermore, it facilitates the integration of my country's industrial vehicle products with international standards, promotes technological exchange between my country and other countries, enhances international trade, and reduces [the impact of these factors].

The occurrence of ambiguity.

GB/T 6104 aims to establish and standardize the terminology and definitions in the field of industrial vehicles, and is proposed to consist of four parts.

--Part 1: Types of Industrial Vehicles

--Part 2: Forks and attachments.

--Part 3: Accessories and Components.

--Part 4: Operational and descriptive terms.

Industrial vehicle terminology Part 1: Types of Industrial Vehicles

1 Scope

This document defines the terminology for industrial vehicle types.

In this document, "industrial vehicle" is a wheeled vehicle with at least three wheels and a powered or unpowered drive system (for rail transport).

(Except for vehicles that can be moved), designed for handling, towing, pushing, lifting, stacking, or layering various goods on shelves, and operated by a single operator.

Control or autonomous driving automatic control.

Note: Appendix A provides classification information for industrial vehicles.

2 Normative references

This document has no normative references.

3 Terms and Definitions

The following terms and definitions apply to this document.

Note: Due to the differences between various types of industrial vehicles and the continuous development of new product combinations, it is necessary to explain all the differences between the various types of industrial vehicles.

This is not possible; therefore, this document defines, illustrates, and/or describes its typical differences.

towing tractor

An industrial vehicle equipped with a traction coupling device, specifically designed for towing other vehicles on the ground.

Note: See Figure 1.

Figure 1 Tractor

Push tractor

A tractor equipped with a front-end buffer plate that can propel vehicles on the ground or on rails.