



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

GB/T 36507-2023

**Industrial trucks - Safety rules for application, operation and
maintenance**

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1 Scope

This document specifies the safety requirements for the application, operation, maintenance, transport, towing, assembly, storage and modification of industrial trucks (hereinafter referred to as "trucks") as defined in ISO 5053-1.

This document applies to the following types of trucks:

- a) counterbalanced trucks;
- b) reach trucks (with retractable mast or retractable fork arm carriage);
- c) straddle trucks;
- d) pallet stackers;
- e) platform trucks;
- f) double stackers;
- g) single-side-loading trucks;
- h) lateral-stacking trucks (both sides) and lateral- and front-stacking trucks;
- i) order-picking trucks;
- j) bidirectional and multidirectional trucks;
- k) counterbalance container handlers;
- l) articulated counterbalanced trucks;
- m) variable-reach trucks;
- n) pallet trucks;
- o) platform and stillage trucks;
- p) tractors with a drawbar pull up to and including 20 000 N;
- q) burden and personnel carriers;
- r) trucks powered by battery, diesel, gasoline or gas (e.g., liquefied petroleum gas, compressed natural gas, liquefied natural gas).

This document also applies to the above-mentioned trucks with automated functions or driverless variants.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the version corresponding to that date is applicable to this document; for undated references, the latest version (including all amendments) is applicable to this document.

ISO 3691-1, Industrial trucks - Safety requirements and verification - Part 1: Self-propelled industrial trucks, other than driverless trucks, variable-reach trucks and burden-carrier trucks

Note: GB/T 10827.1-2014, Industrial trucks - Safety requirements and verification - Part 1: Self-propelled industrial trucks, other than driverless trucks, variable-reach trucks and burden-carrier trucks (ISO 3691-1:2011, IDT)

ISO 3691-4 Industrial trucks - Safety requirements and verification - Part 4:

Driverless industrial trucks and their systems

Note: GB/T 10827.4-2023, Industrial trucks - Safety requirements and verification - Part 4: Driverless industrial trucks and their systems (ISO 3691-4:2020, IDT)

ISO 5053-1:2020, Industrial trucks - Vocabulary - Part 1: Types of industrial trucks

Note: GB/T 6104.1-2018, Industrial trucks - Terminology and classification - Part 1:

Types of industrial trucks (ISO 5053-1:2015, IDT)

ISO 5057, Industrial trucks - Inspection and repair of fork arms in service on fork-lift trucks

Note: GB/T 17910-1999, Industrial trucks - Inspection and repair of fork arms in service on fork-lift trucks (ISO 5057:1993, IDT)

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 5053-1:2020 and the following apply.

3.1 user

4.1.4 If trucks are used in special areas (e.g., cold storage or public roads), additional

requirements may apply.

4.1.5 The user may take additional fire prevention measures or facilities according to

the environment where the truck is used.

4.1.6 The user shall ensure that trucks used in work environments subject to

electrostatic discharge hazards are equipped with anti-static devices.

4.1.7 When damage or other defects that affect safety are found on the truck or

attachments, the truck shall be taken out of service immediately. Trucks and attachments that are unsafe to operate shall not be put into service until they have been completely repaired.

Note: It is considered good practice to place temporary warnings to trucks to indicate that they are unsafe to operate.

4.1.9 Except as provided in Chapter 9, no one shall stand under or pass under the

elevated part of the truck whether the truck is laden or not.

4.1.10 Except as provided in Chapter 9, no one shall place any part of the body (e.g., arms, legs or head) between working parts of the truck (e.g., mast).

4.1.11 The user shall monitor and control the operating environment to ensure the safety

of persons around the truck and the safe operation of the truck (see Appendix A).

4.1.12 The operator shall receive training on the operation of the truck, including all

attachments and automated functions, and shall operate in accordance with the manufacturer's instructions for use.

4.1.13 The operator shall receive training regarding their obligations and be familiar

with all safety information including operating instructions of the truck.

4.1.14 The user shall designate the person(s) to be responsible for supervising truck

operator(s). The person(s) responsible for supervising truck operators shall be trained on how to take the following actions:

-- strengthen operators' safety awareness and practices;