



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

GB/T 26949.9-2018

**Industrial trucks -- Verification of stability -- Part 9:
Counterbalanced trucks with mast handling freight containers
of 6 m length and longer**

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Foreword

GB/T 26949 "Industrial Vehicle Stability Verification" has or plans to release the following parts.

--- Part 1. General;

---Part 2. Counterbalanced forklift;

--- Part 3. Forward and legged forklifts;

--- Part 4. Pallet stacker, double stacker and picking truck with lifting position of not more than 1200mm;

--- Part 5. Side forklifts (one side);

--- Part 7. Two-way and multi-directional operation of the forklift;

--- Part 8. Additional stability tests for stacking operations under gantry forward and load lift conditions;

- Part 9. Counterbalanced forklifts carrying freight containers of 6m and longer lengths;
- Part 10. Additional stability tests for stacking operations under lateral load conditions of power units;
- Part 11. Telescopic forklift;
- Part 12. Telescopic forklifts carrying freight containers of 6m and longer lengths;
- Part 13. Off-road forklifts with gantry;
- Part 14. Off-road telescopic forklift;
- Part 15. Counterbalanced forklifts with articulated steering;
- Part 16. Walker vehicles;
- Part 17. Cargo and personnel carriers;
- Part 20. Additional stability tests for operation under load bias conditions;
- Part 21. Picking vehicles with an operator position elevation greater than 1200 mm;
- Part 22. Three-way stacker forklifts with or without operator position;
- Part 23. Truck-carrying forklifts;
- Part 24. Off-road rotary telescopic forklift.

This part is the ninth part of GB/T 26949.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part replaces GB/T 26561-2011 "balanced heavy forklift handling 6m and above length freight containers with additional stability

The main technical changes compared with GB/T 26561-2011 are as follows.

- Added "terms and definitions" (see Chapter 3);
- Revised the "test requirements", "test method" and "test list" chapters, some of which are referenced

ISO 22915-1, the rest is adjusted to "Chapter 4 Operating Conditions", "Chapter 5 Test Conditions" and "Chapter 6 Stability Test"

In the certificate (see Chapters 4, 5, and 6, and Chapters 3, 4, and 5 of the 2011 edition).

This part uses the translation method equivalent to ISO 22915-9:2014 "Industrial Vehicle Stability Verification Part 9. Handling 6m and its

Balanced heavy-duty vehicles with gantry above the length of freight containers.

The documents of our country that have a consistent correspondence with the international

documents referenced in this part are as follows.

---GB/T 1413-2008 Series 1 container classification, size and rated quality (ISO 668.1995, IDT)

---GB/T 6236-2008 Agricultural and forestry tractors and machinery driver's seat marking points (ISO 5353.1995, MOD)

--- GB/T 7392-1998 Series 1 container technical requirements and test methods for insulated containers (ISO 1496-2.1996,

IDT)

--- GB/T 26949.1-2012 Industrial vehicle stability verification Part 1. General (ISO 22915-1.2008, IDT)

--- GB/T 26949.10-2011 Industrial vehicle stability verification - Part 10. Under lateral load conditions

Additional stability test for stacking operations (ISO 22915-10.2008, IDT)

--- GB/T 26949.20-2016 Industrial vehicle stability verification - Part 20. Addition to work under load offset conditions

Stability test (ISO 22915-20.2008, IDT)

This section also made the following editorial changes.

--- In order to comply with the customary title in China's industry, the standard name was changed to "Industrial Vehicle Stability Verification Part 9. Handling

Counterbalanced forklifts for freight containers of 6m and above length".

This part was proposed by the China Machinery Industry Federation.

This part is under the jurisdiction of the National Industrial Vehicle Standardization Technical Committee (SAC/TC332).

This section is responsible for drafting units. Anhui Heli Co., Ltd., Beijing Crane Transportation Machinery Design and Research Institute Co., Ltd.

Participated in the drafting of this section. Linde (China) Forklift Co., Ltd., Zhejiang Special Equipment Inspection and Research Institute.

1 Scope

This part of GB/T 26949 provides for the verification of the balance of gantry and handling of empty or full-load freight containers of 6m and above.

Test method for the stability of heavy forklifts.

This section applies to forks, spreaders (top lift and side lift) or other load handling devices for handling containers.

Forklift.

This section does not apply to forklift trucks carrying containers with a movable center of gravity (see GB/T 17382-2008).

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 10827.1-2014 Safety requirements and verification of industrial vehicles - Part 1. Self-propelled industrial vehicles (except driverless vehicles)

Vehicles, telescopic forklifts and carriers) (ISO 3691-1.2011, IDT)

GB/T 17382-2008 Series 1 container handling and bolting (ISO 3874.1997, IDT)

ISO 668 Series 1 container classification, size and rated quality
(Series1freightcontainers-Classification, di-

Mensionsandratings)

ISO 1496-2.2008 Series 1 Container Technical Requirements and Test Methods Part 2. Insulated Containers (Series1freight

containers-Specificationandtesting-Part 2. Thermalcontainers)

ISO 5353.1995 Earth-moving machinery, tractors and agricultural machinery seat calibration points (Earth-movingmachinery, and

tractorsandmachineryforagricultureandforestry-Seatindexpoint)

ISO 22915-1 - Determination of stability of industrial vehicles - Part 1. General
(Industrialtrucks-Verificationofstabili-

ty-Part 1.General)

ISO 22915-10 - Determination of stability of industrial vehicles - Part 10. Attachment to stacking under load conditions

Stability test (Industrialtrucks-Verificationofstability-Part 10.Additionalstabilitytestfor Trucksoperatinginthepreciseconditionofstackingwithloadlaterallydisplacedbypowereddevices)

ISO 22915-20 - Determination of stability of industrial vehicles - Part 20. Additional stability