NATIONAL STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

GB/T 26949.16-2018

Industrial trucks -- Verification of stability -- Part 16: Pedestrian-propelled trucks

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Foreword

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

--- Part 1. General;

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--- Part 4. Pallet stacker, double stacker and picker with a height of not more than 1200mm from the operator's position;

--- 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;

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--- Part 11. Telescopic forklift;

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--- Part 16. Walker vehicles;

--- Part 17. Cargo and personnel carriers;

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--- 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 16th part of GB/T 26949.

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

This section uses the translation method equivalent to ISO 22915-16.2014 "Industrial Vehicle Stability Verification Part 16. Walker

Vehicle.

The documents of our country that have a consistent correspondence with the international documents referenced in this part are as follows.

--- GB/T 6104.1-2018 Industrial vehicle terms and classification - Part 1. Industrial vehicle type (ISO 5053-1.2015,

IDT)

--- GB/T 10827.5-2013 Safety requirements and verification of industrial vehicles - Part 5. Walk-in vehicles (ISO 3691-5.

2009, IDT)

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

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. Noli Intelligent Equipment Co., Ltd., Beijing Crane Transportation Machinery Design and Research Institute Co., Ltd.

Participated in the drafting of this section. Xiamen Product Quality Supervision and Inspection Institute [National Field (Factory) Motor Vehicle Quality Supervision and

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1 Scope

This part of GB/T 26949 specifies the test method for verifying the stability of walking vehicles.

This section applies to.

---Plug-in, pallet and platform stacking vehicles with a weight of not more than 1000kg or with a battery as the lifting force;

--- Manual lifting with a lifting height of not more than 1000mm and rated lifting capacity of not more than 1000kg or shearing with battery as lifting force

Fork pallet handling vehicle;

--- Platform vehicles.

This section also applies to vehicles equipped with load handling attachments under the same operating conditions.

This section does not apply to vehicles with retractable devices such as retractable gantry or retractable forks.

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.

ISO 3691-5.2014 - Safety requirements and verification of industrial vehicles - Part 5. walk-in vehicle (Industrialtrucks-

Safetyrequirementsandverification-Part 5.Pedestrian-propeledtrucks)

ISO 5053 Industrial Vehicle Terms and Classifications (Industrialtrucks-Terminologyandclassification)

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

stability-Part 1.General)

3 Terms and definitions

The terms and definitions defined by ISO 5053 and ISO 22915-1 apply to this document.

4.1 General

See ISO 22915-1.

4.2 Position of the vehicle on the inclined platform

If the vehicle is equipped with casters and casters, the casters and casters should be installed during the test and placed in the direction of minimum stability.

(See Table 1, Table 2 and Table 3).

4.2.1 Load bridge and steering axle

Figure 1 defines the load bridge and steering axle of the vehicle.

Stacker vehicle scissor lift vehicle platform vehicle

Description.

AA---the longitudinal center plane of the vehicle;

BB---steering bridge;

CC---load bridge.

Figure 1 Load bridge and steering bridge

4.2.2 Longitudinal stability test conducted in Test 1, Test 2, Test 4 and Test 7 to Test 10

The vehicle should be placed on a tilting platform whose steering axle BB and load bridge CC should be parallel to the tilt axis XY of the tilting platform.

4.2.3 Lateral stability test conducted in Test 3, Test 5, Test 6 and Test 7 to Test 10

The vehicle should be placed on a tilting platform such that the MN line is parallel to the tilt axis XY of the tilting platform.

The M points are defined as follows.

a) For vehicles with single or multiple rigid support casters, the M point is the intersection of the caster shaft centerline and the caster wheel width center plane

Vertical projection on the inclined platform, while the center line of the rigid support caster shaft is parallel or located at the tilt axis XY of the inclined platform