

ICS 53.060



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

GB/T 26949.20-2016

**Industrial trucks-Verification of stability-Part 20:Additional
stability test for trucks operating in the special condition of
offset load,offset by utilization**

工业车辆 稳定性验证 第20部分：在载荷偏置条件下作业的附加稳定性试验

(English Translation)

Issued on: October 13, 2016

Implemented on: May 1, 2017

Issued by: SAMR; SAC

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Foreword

GB/T 26949 "Verification of industrial vehicle stability" has issued or plans to release the following sections.

- Part 1. General;
- Part 2. Counterbalanced forklift trucks;
- Part 3. Forward and pin-type forklifts;
- Part 4. Pallet stacker, double-decked stacker and pick-up cart with lifting height no greater than 1200mm at operator's position;
- Part 5. side lift truck (one side);
- Part 7. Two-way and multi-directional operation of forklifts;
- Part 8. additional stability test of stacking operation under forward mast and load lifting;
- Part 9. Balancing forklift trucks carrying freight containers of 6m length and above;
- Part 10. additional stability test of stacking operation under lateral load by power plant;
- Part 11. Telescopic forklift;
- Part 12. Telescopic handling trucks carrying freight containers of 6m length and above;

- Part 13. Cross-country forklift with a gantry;
- Part 14. Cross-country telescopic lift truck;
- Part 15. Balanced forklift with articulated steering;
- Part 16. walking vehicles;
- Part 17. goods and personnel carriers;
- Part 20. Additional stability tests under load bias conditions;
- Part 21. The pick-up car with the operator's lifting height greater than 1200mm;
- Part 22. Three-way stacker truck where operator position may or may not be raised.

This section GB/T 26949 Part 20.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses the translation method is equivalent to using ISO 22915-20.:2008 "Industrial Vehicle Stability Verification Part 20. In the load bias Additional Stability Tests for Work under Conditions ".

The documents of our country that are in conformity with the corresponding international documents that are normative references in this part are as follows.

- GB/T 6104-2005 Terminology for mobile industrial vehicles (ISO 5053. 1987, IDT)
- GB 10827.1-2014 industrial vehicle safety requirements and verification - Part 1. self-propelled industrial vehicles (except for driverless vehicles Trucks, Telescopic Handlers and Trucks) (ISO 3691-1.:2011, IDT)
- GB/T 26949.1-2012 Verification of industrial vehicle stability - Part 1. General (ISO 22915-1.:2008, IDT)
- GB/T 26949.2-2013 industrial vehicle stability verification - Part 2. Counterbalanced truck (ISO 22915-2.:2008, IDT)
- GB/T 26949.3-2013 industrial vehicle stability verification - Part 3. Forward and pin forklift trucks (ISO 22915-3. 2008, IDT)
- GB/T 26949.4-2016 industrial vehicle stability verification - Part 4. pallet trucks, double-decked stacker and operator Pick-up vehicles with lifting height no greater than 1200 mm (ISO 22915-4.:2009, IDT)
- GB/T 26949.7-2016 industrial vehicle stability verification - Part 7. two-way and multi-directional operation forklift (ISO 22915-7. 2009, IDT)

This part is proposed by China Machinery Industry Federation.

This part of the National Industrial Vehicles Standardization Technical Committee (SAC/TC332) centralized.

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Limited company.

1 Scope

This standard specifies the stability associated with the safety of industrial vehicles as defined by ISO 5053 and verification methods. This standard is involved Industrial vehicles are self-propelled or pedestrian vehicles with wheels, except vehicles that operate on orbit. These vehicles can be operated by the operator Controlled, or unmanned, for handling, towing, jacking, lifting, stacking or stacking within shelves.

This part of GB/T 26949 specifies additional tests to verify the stability of a fully loaded vehicle with load bias in service the center of mass has a significant offset from the longitudinal center plane of the vehicle. This section applies to the following types of vehicles.

- a) Counterbalanced forklift trucks as specified in ISO 22915-2;
- b) Forward type (retractable masts or forks) and pin-type forklifts specified in ISO 22915-3;
- c) Pallet stacker trucks as specified in ISO 22915-4;
- d) Two-way and multi-way operation (retractable masts or forks) as specified in ISO 22915-7;
- e) off-road telescopic handler as defined in ISO 22915-14;
- f) articulated steering counterbalanced forklifts as specified in ISO 22915-15;
- g) Telescopic handler of ISO 22915-11;
- h) Cross-country forklift with gantry as specified in ISO 22915-13.

If the offset is greater than the following value is considered a significant offset.

--- Rated vehicle weight less than 5000kg. 100mm;

--- Rated starting weight of not less than 5000kg and not more than 10000kg of vehicles. 150mm;

- Rated starting weight greater than 10000kg and less than 20000kg vehicles. 250mm;
- Nominal weight of not less than 20000kg vehicles. 350mm.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article. For undated references, the latest edition (including all amendments) applies to this document.

ISO 3691-1 Industrial vehicles - Safety requirements and verification - Part 1. Self-propelled industrial vehicles (except unmanned vehicles, telescopic arms Industrial Trucks-Safety requirements and verification-Part 1. Self-propelled industrial trucks, other than driverless trucks, variable-reach trucks and burden-carrier trucks) ISO 5053 mobile industrial vehicles terminology (Powered industrial trucks-Terminology) ISO 22915-1 industrial vehicle stability verification - Part 1. General (Industrial trucks-Verification of stability-Part 1. General) ISO 22915-2 Industrial vehicle stability verification - Part 2. Gantry counterbalanced truck (Industrial trucks-Verification of stability-Part 2. Counterbalanced trucks with mast) ISO 22915-3 industrial vehicle stability verification - Part 3. Reach and pinches (Industrial trucks-Verification of stability-Part 3. Reach and straddle trucks) ISO 22915-4. Verification of industrial vehicle stability - Part 4. Pallet stacker, double-deck stacker and operator position rise Degree of not more than 1200mm picking cart (Industrial trucks-Verification of stability-Part 4. Pallet stackers, double stackers and order-picking trucks with operator position elevating up to and including 1200mm lift height) ISO 22915-7 Industrial vehicle stability verification - Part 7. Two-way and multi-directional operation of the truck (Industrial trucks-Verification of stability-Part 7. Bidirectional and multidirectional trucks)

3 Terms and definitions

ISO 22915-1 defines the following terms and definitions apply to this document.

Special operating conditions special operating condition Stacking under load bias conditions.

Note: Figure 1 is an example.

Figure 1 Example of Load Offset in Use

4.1 General

See ISO 22915-1.