
**Industrial trucks — Verification of
stability —**

**Part 3:
Reach and straddle trucks**

*Chariots de manutention — Vérification de la stabilité —
Partie 3: Chariot à mât ou à fourche rétractable*



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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 22915-3 was prepared by Technical Committee ISO/TC 110, *Industrial trucks*, Subcommittee SC 2, *Safety of powered industrial trucks*.

This first edition of ISO 22915-3 cancels and replaces ISO 3184:1998, of which it constitutes a technical revision. It also incorporates the Technical Corrigendum ISO 3184:1998/Cor.1:2000.

ISO 22915 consists of the following parts, under the general title *Industrial trucks — Verification of stability*:

- *Part 1: General*
- *Part 2: Counterbalanced trucks with mast*
- *Part 3: Reach and straddle trucks*
- *Part 4: Pallet stackers, double stackers and order-picking trucks with operator position elevating up to and including 1 200 mm lift height*
- *Part 7: Bi-directional and multi-directional trucks*
- *Part 8: Additional stability test for trucks operating in the special condition of stacking with mast tilted forward and load elevated*
- *Part 10: Additional stability test for trucks operating in the special condition of stacking with load laterally displaced by powered devices*
- *Part 20: Additional stability test for trucks operating in the special condition of offset load, offset by utilization*
- *Part 21: Order-picking trucks with operator position elevating above 1 200 mm*

The following parts are under preparation:

- *Part 5: Single side loading trucks*
- *Part 9: Counterbalanced trucks with mast handling freight containers of 6 m (20 ft) length and longer*

- *Part 11: Industrial variable reach trucks*
- *Part 12: Industrial variable reach trucks handling freight containers of 6 m (20 ft) length and longer*
- *Part 14: Rough-terrain variable reach trucks*
- *Part 15: Counterbalanced trucks with articulated steering*
- *Part 16: Pedestrian-propelled trucks*
- *Part 17: Burden and personnel carriers*

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Industrial trucks — Verification of stability —

Part 3: Reach and straddle trucks

1 Scope

This part of ISO 22915 specifies the tests for verifying the stability of reach trucks (with retractable mast or fork) and straddle trucks, equipped with tilting or non-tilting masts or fork arms and having a rated capacity up to and including 5 000 kg.

It is also applicable to such trucks operating under the same conditions when equipped with load-handling attachments.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 5053, *Powered industrial trucks — Terminology*

ISO 22915-1, *Industrial trucks — Verification of stability — General* ¹⁾

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 5053 and ISO 22915-1 apply.

4 Test conditions

4.1 General

See ISO 22915-1.

4.2 Position of truck on tilt table

4.2.1 Load and drive/steer axles

The load and drive/steer axles are defined by Figure 1.

1) To be published.