



Industrial trucks—Verification of stability

Part 1: General



AS ISO 22915.1:2018

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- Australian Industrial Truck Association
- Australian Industry Group
- Construction and Mining Equipment Industry Group
- Hire and Rental Industry Association of Australia
- Safety Institute of Australia
- SafeWork NSW
- Telescopic Handler Association of Australia
- WorkSafe Victoria

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Preface

This Standard was prepared by the Standards Australia Committee ME-026, Industrial Trucks, to supersede AS ISO 22915.1:2015.

The objective of this Standard is to specify basic test criteria and requirements for verifying the stability of industrial trucks, hereafter referred to as trucks.

This Standard applies to the following truck types and special conditions:

- (a) Counterbalanced trucks with mast as specified in AS ISO 22915.2.
- (b) Reach and straddle trucks as specified in AS ISO 22915.3.
- (c) Pallet stackers, double stackers, and order-picking trucks with operator position elevating up to and including 1 200 mm lift height as specified in AS ISO 22915.4.
- (d) Single-side-loading trucks as specified in ISO 22915-5.
- (e) Bidirectional and multidirectional trucks as specified in ISO 22915-7.
- (f) Additional stability test for trucks operating in special conditions of stacking with mast tilted forward and load elevated as specified in ISO 22915-8.
- (g) Counterbalanced trucks with mast handling freight containers of 6 m (20 ft) length and longer as specified in AS ISO 22915.9. (Proposed adoption under preparation.)
- (h) Additional stability test for trucks operating in special conditions with the load substantially laterally displaced by powered devices as specified in AS ISO 22915.10. (Proposed adoption under preparation.)
- (i) Industrial variable-reach trucks as specified in AS ISO 22915.11.
- (j) Industrial variable-reach trucks handling freight containers of 6 m (20 ft) length and longer as specified in AS ISO 22915.12. (Proposed adoption under preparation.)
- (k) Rough-terrain trucks with mast as specified in AS ISO 22915.13.
- (l) Rough-terrain variable-reach trucks as specified in AS ISO 22915.14;
- (m) Counterbalanced trucks with articulated steering as specified in ISO 22915-15.
- (n) Pedestrian-propelled trucks as specified in AS ISO 22915.16.
- (o) Additional stability test for trucks operating in the special condition of offset load, offset determined by utilization as specified in AS ISO 22915.20.
- (p) Order-picking trucks with operator position elevating above 1 200 mm as specified in AS ISO 22915.21.
- (q) Lateral and front-stacking trucks with and without elevating operator position as specified in AS ISO 22915.22.

This Standard is identical with, and has been reproduced from, ISO 22915-1:2016, *Industrial trucks — Verification of stability — Part 1: General*.

As this document has been reproduced from an International Standard, a full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 110, *Industrial trucks*, Subcommittee SC 2, *Safety of powered industrial trucks*.

This second edition cancels and replaces the first edition (ISO 22915-1:2008), which has been technically revised.

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 5: Single-side-loading trucks*
- *Part 7: Bidirectional and multidirectional trucks*
- *Part 8: Additional stability test for trucks operating in the special condition of stacking with mast tilted forward and load elevated*
- *Part 9: Counterbalanced trucks with mast handling freight containers of 6 m (20 ft) length and longer*
- *Part 10: Additional stability test for trucks operating in the special condition of stacking with load laterally displaced by powered devices*
- *Part 11: Industrial variable-reach trucks*
- *Part 12: Industrial variable-reach trucks handling freight containers of 6 m (20 ft) length and longer*
- *Part 13: Rough-terrain trucks with mast*