
**Industrial trucks — Verification of
stability —**

Part 8:

**Additional stability test for trucks
operating in the special condition of
stacking with mast tilted forward and load
elevated**

Chariots de manutention — Vérification de la stabilité —

*Partie 8: Essai de stabilité supplémentaire pour les chariots travaillant
dans des conditions de gerbage spéciales avec le mât incliné en avant
et la charge surélevée*



PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

STANDARDSISO.COM : Click to view the full PDF of ISO 22915-8:2008



COPYRIGHT PROTECTED DOCUMENT

© ISO 2008

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

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

Published in Switzerland

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.

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 22915-8 was prepared by Technical Committee ISO/TC 110, *Industrial trucks*, Subcommittee SC 2, *Safety of powered industrial trucks*.

This first edition of ISO 22915-8 cancels and replaces ISO 5767:1992, of which it constitutes a technical revision.

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 up to and including 1 200 mm lift height*
- *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 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: Variable reach trucks*

- *Part 12: 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*

STANDARDSISO.COM : Click to view the full PDF of ISO 22915-8:2008

Introduction

An important step forward in work on the ISO 22915 series was the agreement to put in place a new structure. The stability tests are presented in the form of a basic part describing and defining stability tests in general, together with separate parts that each give specific stability test criteria and requirements for a different truck type.

From the very beginning, the task of the Working Group involved was to establish the new structure and revise existing standards to create a series of International Standards complying with the major legislative regulations in the world such as those in force in the EU, USA, Japan and Australia.

For several problem areas compromises were needed and will be needed in the future. In order to ensure that these International Standards are actively used in the ISO member countries worldwide, it will be necessary that they replace existing national standards.

Only in this way will there will be the guarantee that products in accordance with these International Standards can be shipped worldwide, freely and without any technical barriers to trade.

STANDARDSISO.COM : Click to view the full PDF of ISO 22915-8:2008

[STANDARDSISO.COM](https://standardsiso.com) : Click to view the full PDF of ISO 22915-8:2008

Industrial trucks — Verification of stability —

Part 8:

Additional stability test for trucks operating in the special condition of stacking with mast tilted forward and load elevated

1 Scope

ISO 22915 deals with the safety of industrial trucks, as defined in ISO 5053, relative to their stability and the verification of that stability. For the purposes of ISO 22915, industrial trucks are wheeled, self-propelled or pedestrian-propelled vehicles, excepting those running on rails. They are either operator-controlled or driverless and designed to carry, tow, push, lift, stack or tier in racks.

This part of ISO 22915 specifies an additional test for verifying the stability of a truck stacking with mast tilted forward and load in the elevated position. It is applicable to the following types of truck:

- a) counterbalanced trucks with tiltable masts, as specified in ISO 22915-2;
- b) reach (retractable mast or forks) and straddle trucks with tiltable masts, as specified in ISO 22915-3;
- c) pallet stackers with tiltable masts, as specified in ISO 22915-4;
- d) bidirectional and multidirectional (retractable mast or forks) trucks with tiltable masts, as specified in ISO 22915-7;
- e) rough-terrain trucks with tiltable masts ¹⁾;
- f) counterbalanced trucks fitted with articulated steering with tiltable masts ¹⁾.

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 3691-1, *Industrial trucks — Safety requirements and verification — Part 1: Self-propelled industrial trucks, other than driverless, variable-reach trucks and burden-carrier trucks* ²⁾

ISO 5053, *Powered industrial trucks — Terminology*

ISO 22915-1, *Industrial trucks — Verification of stability — Part 1: General* ²⁾

ISO 22915-2, *Industrial trucks — Verification of stability — Part 2: Counterbalanced trucks with mast*

1) Intended to be covered by a future part of ISO 22915. See Foreword.

2) To be published.

ISO 22915-3, *Industrial trucks — Verification of stability — Part 3: Reach and straddle trucks*

ISO 22915-4, *Industrial trucks — Verification of stability — Part 4: Pallet stackers, double stackers and order-picking trucks up to and including 1 200 mm lift height* ³⁾

ISO 22915-7, *Industrial trucks — Verification of stability — Part 7: Bidirectional and multidirectional trucks* ³⁾

3 Terms and definitions

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

3.1

special operating condition

stacking with load elevated and mast tilted forward

See Figure 1.

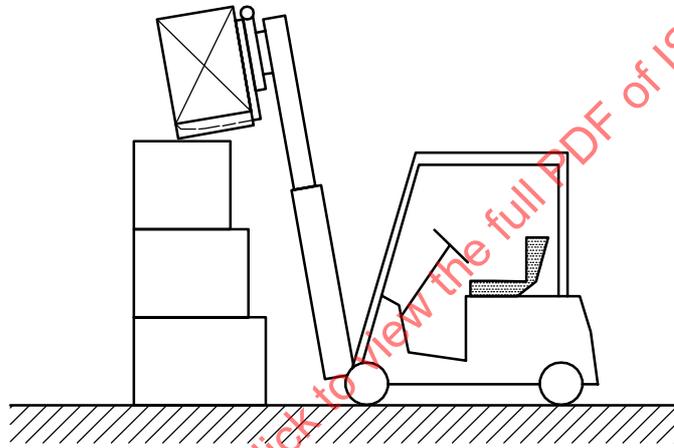


Figure 1 — Special operating condition

4 Test conditions

4.1 General

See ISO 22915-1.

4.2 Position of truck on the tilt table

4.2.1 Counterbalanced trucks

The position of the truck on the tilt table shall be in accordance with test 1 of ISO 22915-2.

4.2.2 Reach and straddle trucks

The position of the truck on the tilt table shall be in accordance with test 1 of ISO 22915-3.

3) To be published.