



## **Industrial trucks—Verification of stability**

### **Part 22: Lateral- and front-stacking trucks with and without elevating operator position**

**STANDARDS**  
Australia



This Australian Standard® was prepared by Committee ME-026, Industrial Trucks. It was approved on behalf of the Council of Standards Australia on 26 October 2015. This Standard was published on 12 February 2016.

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- Australian Industry Group
  - Australian Industrial Truck Association
  - Construction and Mining Equipment Industry Group
  - Hire and Rental Industry Association of Australia
  - Safety Institute of Australia
  - SafeWork NSW
  - WorkSafe Victoria
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Australian Standard<sup>®</sup>

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## PREFACE

This Standard was prepared by the Standards Australia Committee ME-026, Industrial trucks.

The objective of this Standard is to provide designers and manufacturers of lateral stacking trucks with the test criteria for conducting stability tests. It is to be used in conjunction with AS ISO 22915.1, *Industrial trucks—Verification of stability, Part 1: General*.

This Standard is identical with, and has been reproduced from ISO 22915-22:2014, *Industrial trucks—Verification of stability, Part 22: Lateral- and front-stacking trucks with and without elevated operator position*.

As this Standard is reproduced from an International Standard, the following applies:

- (a) In the source text ‘this part of ISO 22915’ should read ‘this Australian Standard’.
- (b) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian Standard</i>	
ISO		AS ISO	
22915	Industrial trucks—Verification of stability	22915	Industrial trucks—Verification of stability
22915-1	Part 1: General	22915.1	Part 1: General

Only normative references that have been adopted as Australian or Australian/New Zealand Standard have been listed.

CONTENTS

<b>1</b>	<b>Scope</b> .....	<b>1</b>
<b>2</b>	<b>Normative references</b> .....	<b>1</b>
<b>3</b>	<b>Terms and definitions</b> .....	<b>1</b>
<b>4</b>	<b>Test conditions</b> .....	<b>2</b>
	4.1 General.....	2
	4.2 Position of the truck on tilt table.....	2
	4.3 Lift height.....	3
<b>5</b>	<b>Verification of stability</b> .....	<b>3</b>
	<b>Bibliography</b> .....	<b>10</b>

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## AUSTRALIAN STANDARD

**Industrial trucks—Verification of stability**

## Part 22:

## Lateral- and front-stacking trucks with and without elevating operator position

**1 Scope**

This part of ISO 22915 specifies the tests to verify the stability of lateral- and front-stacking trucks, as defined in ISO 5053-1, with and without elevating operator position.

It applies to trucks fitted with fork arms, shuttle forks, and/or integrated attachments under normal operating conditions.

It applies to trucks fitted with a load carrier that can be shifted laterally or pivoted out of the longitudinal centre plane of the truck.

**2 Normative references**

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

ISO 5053-1, *Powered industrial trucks — Terminology and classification — Part 1: Types of industrial trucks*

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

**3 Terms and definitions**

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

**3.1****normal operating condition**

operating condition corresponding to the truck travelling indoors on smooth, level floors of sufficient strength such as those of concrete

**3.2****guided steering**

steering mode, either mechanical (e.g. guidance rails) or non-mechanical (e.g. inductive guidance, laser sensor or infrared) not controlled directly by the operator, used to steer the truck on a predetermined straight path while travelling

**3.3****restricted steering**

operation under which the truck's steering is controlled by the operator and the steering angle is limited to not more than  $\pm 10^\circ$  from the forward or reverse travel direction

**3.4****unrestricted steering**

steering mode controlled by the operator with no limitation of the steering angle