

AS 22915.20:2024



STANDARDS
Australia



Industrial trucks — Verification of stability

Part 20: Additional stability test for trucks operating in the special condition of offset load, offset by utilization (ISO 22915-20:2023, MOD)



AS 22915.20:2024

This Australian Standard® was prepared by ME-026, Industrial Trucks. It was approved on behalf of Standards Australia's Standards Development and Accreditation Committee on 30 May 2024.

This Standard was published on 14 June 2024.

The following are represented on Committee ME-026:

- Australian Forklift and Industrial Truck Association
- Australian Industry Group
- Australian Institute of Health & Safety
- Better Regulation Division (Fair Trading, SafeWork NSW, TestSafe)
- Construction and Mining Equipment Industry Group
- Engineers Australia
- Hire and Rental Industry Association of Australia
- National Road Transport Association
- Telescopic Handler Association of Australia
- Victorian WorkCover Authority (WorkSafe Victoria)

This Standard was issued in draft form for comment as DR AS 22915.20:2024.

Keeping Standards up-to-date

Ensure you have the latest versions of our publications and keep up-to-date about Amendments, Rulings, Withdrawals, and new projects by visiting:

www.standards.org.au

ISBN 978 1 76139 670 0

Industrial trucks — Verification of stability

Part 20: Additional stability test for trucks operating in the special condition of offset load, offset by utilization (ISO 22915-20:2023, MOD)

Originated as AS 22915.20:2018.
Second edition 2024.

COPYRIGHT

© ISO 2024 — All rights reserved
© Standards Australia Limited 2024

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Cth).

Preface

This Standard was prepared by the Standards Australia Committee ME-026, Industrial Trucks to supersede AS 22915.20:2018, *Industrial trucks—Verification of stability, Part 20: Additional stability test for trucks operating in the special condition of offset load, offset by utilization (ISO 22915-20:2008, MOD)*.

The objective of this document is to specify an additional test for verifying the stability of a laden truck whose utilization creates the special operating condition whereby the load centre of gravity is substantially offset from the truck's longitudinal centre plane or from the centred position by design.

A load is considered to be substantially offset if displaced by more than —

- (a) 100 mm, for a truck with a rated capacity < 5 000 kg;
- (b) 150 mm, for a truck with a rated capacity ≥ 5 000 kg and ≤ 10 000 kg;
- (c) 250 mm, for a truck with a rated capacity > 10 000 kg and < 20 000 kg; and
- (d) 350 mm, for a truck with a rated capacity ≥ 20 000 kg.

This document is applicable to the following types of trucks as defined in ISO 5053-1:

- (i) Counterbalance trucks.
- (ii) Reach and straddle trucks.
- (iii) Pallet stackers.
- (iv) Bidirectional and multidirectional trucks.
- (v) Industrial variable-reach trucks.
- (vi) Rough-terrain trucks with mast.
- (vii) Rough-terrain variable reach trucks.
- (viii) Counterbalance trucks with articulated steering.
- (ix) Variable-reach container handler.
- (x) Counterbalanced container handler.
- (xi) Order-picking truck.
- (xii) Slewing rough-terrain variable-reach truck.

This document is identical with national modifications, and has been reproduced from, ISO 22915-20:2023, *Industrial trucks — Verification of stability — Part 20: Additional stability test for trucks operating in the special condition of offset load, offset by utilization*.

The modifications are additional requirements and are set out in [Appendix ZZ](#), which has been added at the end of the source text.

As this document has been reproduced from an international document, 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.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

Contents

Preface	ii
Foreword	iv
Section 1 Scope	1
Section 2 Normative references	1
Section 3 Terms and definitions	2
Section 4 Test conditions	3
4.1 General	3
4.2 Position of truck on the tilt table	3
4.2.1 Counterbalance trucks	3
4.2.2 Reach and straddle trucks	3
4.2.3 Pallet stackers	3
4.2.4 Bidirectional and multidirectional trucks	4
4.2.5 Counterbalanced container handler	4
4.2.6 Variable-reach container handler	4
4.2.7 Industrial variable-reach trucks	4
4.2.8 Rough-terrain trucks with mast	4
4.2.9 Rough-terrain variable reach trucks	4
4.2.10 Counterbalance trucks with articulated steering	4
4.2.11 Order-picking trucks with operator position elevating above 1 200 mm	4
4.2.12 Slewing variable-reach rough-terrain trucks	4
4.3 Position of the load	4
4.4 Lift height for trucks with attachments	4
Section 5 Verification of stability	4
5.1 General	4
5.2 Counterbalance trucks	4
5.3 Reach and straddle trucks	5
5.4 Pallet stackers	5
5.5 Bidirectional and multidirectional trucks	5
5.6 Counterbalanced container handler	5
5.7 Industrial variable-reach trucks	5
5.8 Variable-reach container handler	5
5.9 Rough-terrain trucks with mast	5
5.10 Rough-terrain variable reach trucks	5
5.11 Counterbalance trucks with articulated steering	5
5.12 Order-picking trucks with operator position elevating above 1 200 mm	5
5.13 Slewing variable-reach rough-terrain trucks	5
Section 6 Marking	5
Bibliography	6
Appendix ZZ (normative) Modifications to ISO 22915-20:2023 for Australia	7