BS ISO 22915-21:2019



BSI Standards Publication

Industrial trucks — Verification of stability

Part 21: Order-picking trucks with operator position elevating above 1 200 mm



National foreword

This British Standard is the UK implementation of ISO 22915-21:2019. It supersedes BS ISO 22915-21:2009, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee MHE/7, Industrial trucks.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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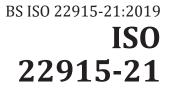
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Industrial trucks — Verification of stability —

Part 21: Order-picking trucks with operator position elevating above 1 200 mm

Chariots de manutention — Vérification de la stabilité —

Partie 21: Chariots préparateurs de commandes avec un poste de conduite élevable au-dessus de 1 200 mm



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Page

Contents

Forew	v ord		iv
1	Scope	9	1
2	Norm	ative references	1
3	Term	s and definitions	1
4	Test conditions		2
	4.1	General	2
	4.2	Position of the truck on the tilt table	2
		4.2.1 Load and drive/steer axles	2
		4.2.2 Tests 1	2
		4.2.3 Tests 2. 3. 4 and 5	2
	4.3	Lift height	3
5	Verification of stability3		3
Biblic	graph	y	8

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 voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

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

This second edition cancels and replaces the first edition (ISO 22915-21:2009), which has been technically revised.

The main changes compared to the previous edition are as follows:

- the wording of <u>4.2.3</u> is revised editorially for better comprehensibility;
- an additional stability test for creep speed is added to <u>Table 1</u>, tests 3 and 4;
- the explanatory note to the maximum travel speed is adapted to the state of the art;
- several drawings in <u>Table 1</u> are redrawn for better comprehensibility.

A list of all parts in the ISO 22915- series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at <u>www.iso.org/members.html</u>.

Industrial trucks — Verification of stability —

Part 21: Order-picking trucks with operator position elevating above 1 200 mm

1 Scope

This document specifies the tests for verifying the stability of order picking trucks with an elevating operator position, as defined in ISO 5053-1, where the operator's position can be raised to an elevation above 1 200 mm.

It is applicable to industrial trucks fitted with fork arms, platforms and/or integrated attachments under normal operating conditions.

It is not applicable to trucks fitted with a load carrier that can be shifted laterally or pivoted out of the truck's longitudinal centre plane.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 5053-1, 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 purposes of this document, the terms and definitions given in ISO 5053-1 and ISO 22915-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at http://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

3.1

normal operating conditions

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

Note 1 to entry: This definition is different from the one given for normal operating conditions in ISO 22915-1.

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