INTERNATIONAL STANDARD

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Rough-terrain trucks — Safe use requirements —

Part 1: Variable-reach trucks

Chariots tout-terrain — Exigences pour l'utilisation en toute sécurité —

Partie 1: Chariots à portée variable

Reference number
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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).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of 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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 110, *Industrial trucks*, Subcommittee SC 4, *Rough-terrain trucks*.

This second edition cancels and replaces the first edition (ISO 11525-1:2012) which has been technically revised.

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

— requirements related to training have been moved to ISO 23676[1)];

— operator qualifications and requirements for an operator to be trained have been merged;

— requirements related to refuelling have been added.

A list of all parts in the ISO 11525 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 www.iso.org/members.html.

1) Under preparation. Stage at the time of publication: ISO/DIS 23676:2019.

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Rough-terrain trucks — Safe use requirements —

Part 1: Variable-reach trucks

1 Scope

This document specifies requirements for application, inspection, training, maintenance, repair and safe operation (herein referred to as safe use) of non-slewing variable-reach rough-terrain trucks (herein referred to as trucks), as defined in ISO 10896-1.

It is intended to achieve the following:

— the prevention of personal injuries, property damage and accidents;

— the establishment of criteria for inspection, maintenance and operation;

— the establishment of operator training requirements.

The safe use requirements for slewing trucks, the interface between rough-terrain trucks and integrated personnel work platforms that can be fitted to rough-terrain trucks and the handling of freely suspended loads with rough-terrain trucks are covered by the other parts of the ISO 11525 series.

The safe use requirements for non-integrated personnel work platforms are covered in ISO 18479-2.

This document is not applicable to lorry-mounted trucks.

NOTE National or local requirements can apply.

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 5057, *Industrial trucks — Inspection and repair of fork arms in service on fork-lift trucks*

ISO 10896-1, *Rough-terrain trucks — Safety requirements and verification — Part 1: Variable-reach trucks*

ISO 23676, *Rough-terrain trucks — Operator training — Content and methods*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 10896-1 and the following apply.

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

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

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

3.1
authorized person
person approved or assigned to perform a specific task or tasks at a specific location or locations at a worksite

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3.2
user
person or entity responsible for assigning an *operator* (3.3) to operate a truck and specifying the tasks to be performed

3.3
operator
person who controls the *operation* (3.8) of the truck

3.4
competent person
person who has acquired, through training, qualification, experience or a combination of these, the knowledge and skill enabling that person to correctly perform the required tasks

3.5
responsible entity
person or entity with responsibility for the design, specification, procurement, fabrication, manufacture, assembly, provision of information and testing of a truck

3.6
maintenance
act of upkeep, including inspection, lubrication, cleaning, adjustment and scheduled parts replacement

3.7
modification
change to the truck that affects its *operation* (3.8), *stability* (3.9), capacity or safety

3.8
operation
performance of functions of a truck within the scope of its specifications and in accordance with the manufacturer's instructions and work rules

3.9
stability
ability of the truck to withstand conditions that would cause it to overturn

Note 1 to entry: Conditions that can affect stability include ground and floor conditions, gradient, wind, speed, loading (trucks equipped with attachments behave as partially loaded trucks even when operated without a load on the attachment), dynamic and static forces and incorrect tyre inflation.

4 General requirements

4.1 Principles

4.1.1 This document shall be supplemented by good management practices, safety controls and application of sound principles of safety, training, inspection, maintenance, application selection and operation. All data available regarding the parameters of intended use and expected environment shall be considered. Those with direct control over the application and operation of the truck shall be responsible for ensuring good safety practices.

NOTE Different operating conditions can require additional safety precautions, training and special safe operating procedures.

4.1.2 The operation of any truck is subject to certain hazards that can be protected against only by the exercise of care and common sense. It is essential to have competent persons trained in the intended use, safe operation, maintenance and service of the truck and any attachment(s).

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