

Rough-terrain trucks - Safety requirements and verification - Part 9: Variable-reach trucks equipped with work platforms having a front guard that can be opened

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 1459-9:2021 sisaldab Euroopa standardi EN 1459-9:2021 ingliskeelset teksti.	This Estonian standard EVS-EN 1459-9:2021 consists of the English text of the European standard EN 1459-9:2021.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
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English Version

Rough-terrain trucks - Safety requirements and verification - Part 9: Variable-reach trucks equipped with work platforms having a front guard that can be opened

Chariots tout-terrain - Prescriptions de sécurité et vérification - Partie 9 : Chariots à portée variable équipés de plateformes de travail munies d'un protecteur avant qui peut être ouvert

Geländegängige Stapler - Sicherheitstechnische Anforderungen und Verifizierung - Teil 9: Anforderungen an Stapler mit veränderlicher Reichweite mit Arbeitsbühnen, deren Frontschutzbügel geöffnet werden können

This European Standard was approved by CEN on 22 February 2021.

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Contents	Page
European foreword	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Safety requirements	6
4.1 General	6
4.2 Movements of the truck and the boom	6
4.3 Restraint devices	7
4.3.1 Personal protective equipment	7
4.3.2 Connection of harnesses and lanyards	7
4.3.3 Fix harnesses and lanyards	7
4.4 Duplicate controls	7
5 Verification	7
5.1 General	7
6 Information for use	8
6.1 General	8
6.2 Marking	8
6.2.1 General	8
6.2.2 Residual risks	8
Annex A (informative) List of significant hazards	9
Bibliography	16

European foreword

This document (EN 1459-9:2021) has been prepared by Technical Committee CEN/TC 150 “Industrial Trucks - Safety”, the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2021, and conflicting national standards shall be withdrawn at the latest by September 2021.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

EN 1459 consists of the following parts, under the general title *Rough-terrain trucks — Safety requirements and verification*:

- *Part 1: Variable-reach trucks;*
- *Part 2: Slewing variable-reach trucks;*
- *Part 3: Interface between the variable-reach truck and the work platform;*
- *Part 4: Additional requirements for variable-reach trucks handling freely suspended loads;*
- *Part 5: Attachment interface;*
- *Part 6: Application of EN ISO 13849-1 to slewing and non-slewing variable-reach rough-terrain trucks (Technical Report);*
- *Part 8: Variable-reach tractors (Technical Specification);*
- *Part 9: Variable-reach trucks equipped with work platforms having a front guard that can be opened.*

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

This document is a type-C standard as stated in EN ISO 12100.

This document is of relevance, in particular, for the following stakeholder groups representing the market players with regard to machinery safety:

- machine manufacturers (small, medium and large enterprises);
- health and safety bodies (regulators, accident prevention organizations, market surveillance, etc.).

Others can be affected by the level of machinery safety achieved with the means of the document by the above-mentioned stakeholder groups:

- machine users/employers (small, medium and large enterprises);
- machine users/employees (e.g. trade unions, organizations for people with special needs);
- service providers, e.g. for maintenance (small, medium and large enterprises);
- consumers (in case of machinery intended for use by consumers).

The above-mentioned stakeholder groups have been given the possibility to participate at the drafting process of this document.

The machinery concerned and the extent to which hazards, hazardous situations or hazardous events are covered are indicated in the Scope of this document.

When requirements of this type-C standard are different from those which are stated in type-A or type-B standards, the requirements of this type-C standard take precedence over the requirements of the other standards for machines that have been designed and built according to the requirements of this type-C standard.

All quantities are in metric units.

For work platforms with front guards that can be opened, restraint devices (harness and lanyard) are used as personal protective equipment (PPE) and are intended to be the protection against the risk of falling; to reach this objective, requirements related to the length of the harness have been specified. Also, protective measures are consequently provided in this document assuming that not connecting harness to lanyard or lanyard to anchorage on the work platform is a foreseeable misuse, therefore requirements related to monitoring the harnesses have been specified. It is also assumed that not wearing harness is a foreseeable misuse, and warnings and information for use are required accordingly.

Work platforms having a front guard that can be opened at height are not intended for general work activities and should only be used where they can be demonstrated to be the safest work method possible for an activity.

EN 1459-9 covers platforms for roof material removal. It does not cover other platforms for other roofs activities, which can have different technical solutions to cover the risk of falling.

1 Scope

This document specifies the safety requirements for slewing rough-terrain variable-reach trucks and rough-terrain variable-reach trucks defined by ISO 5053-1 (hereafter referred to as trucks) and their work platforms having front guards that can be opened for removal of roof material (hereafter referred to as work platforms).

This document deals with the significant hazards, hazardous situations and events relevant to the combination of the truck and the integrated work platform when it is used as intended and under conditions of misuse which are reasonably foreseeable by the manufacturer. The significant hazards covered by this document are listed in Annex A.

NOTE 1 Duplicate controls for the slewing upper structure, the boom and the work platform movements can be also provided under specific circumstances at the operating position in the enclosed cab of the truck.

This document does not address hazards which can occur:

- a) when using non-integrated work platforms or other attachments not designed for lifting persons;
- b) when handling suspended work platforms which can swing freely;
- c) when operating underground or in potentially explosive atmospheres;
- d) when removing asbestos, regarding the possible release of fibres.

This document does not specify safety requirements for trucks equipped with work platforms intended for leaving and re-entering at height.

NOTE 2 National regulations for worksites can apply for asbestos removal to cover the risks related to the possible release of fibres.

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.

EN 280:2013+A1:2015, *Mobile elevating work platforms — Design calculations — Stability criteria — Construction — Safety — Examinations and tests*

EN 1459-3:2015, *Rough-terrain trucks — Safety requirements and verification — Part 3: Interface between the variable-reach truck and the work platform*

ISO 15870, *Powered industrial trucks — Safety signs and hazard pictorials — General principles*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 280:2013+A1:2015, EN 1459-3:2015 and the following apply.

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

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>