



BSI Standards Publication

Rough-terrain trucks - Safety requirements and verification

Part 8: Variable-reach tractors

National foreword

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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.

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English Version

**Rough-terrain trucks - Safety requirements and
verification - Part 8: Variable-reach tractors**

Chariots tout-terrain - Prescriptions de sécurité et
vérification - Partie 8 : Tracteurs à portée variable

Geländegängige Flurförderzeuge -
Sicherheitsanforderungen und Verifizierung - Teil 8:
Traktoren mit veränderlicher Reichweite

This Technical Specification (CEN/TS) was approved by CEN on 6 May 2018 for provisional application.

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European foreword

This document (CEN/TS 1459-8:2018) has been prepared by Technical Committee CEN/TC 150 "Industrial trucks - Safety", the secretariat of which is held by BSI.

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 suspended loads*
- *Part 5: Additional requirements for attachments and attachment interface*
- *Part 6: Application of EN ISO 13849-1 to slewing and non-slewing variable-reach rough-terrain trucks (Technical Report)*
- *Part 7: Test method and determination of noise emission (in preparation) for variable-reach trucks*
- *Part 8: Variable-reach tractors (Technical Specification)*

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Introduction

This document is applicable to rough-terrain variable-reach trucks homologated as tractors according to 167/2013, called rough-terrain variable-reach tractors (RTVR tractors).

This document is also intended to highlight and explain the requirements of the Machinery Directive 2006/42/EC applicable to the permanently mounted equipment on a RTVR tractor.

It is based on EN 1459-1:2017.

The two following regulations apply to those RTVR tractors with permanently mounted equipment:

Tractor regulation 167/2013

Machinery directive 2006/42/CE for the permanently mounted equipment.

As a consequence, the two following documents accompany each piece of equipment:

- COC certificate of conformity
- DOC declaration of conformity for permanently mounted equipment

The permanently mounted equipment bears the CE marking.

All quantities are in SI units, and this includes metric units.

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

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

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

1 Scope

This document specifies requirements related to permanent mounted equipment for rough-terrain variable-reach tractors (here-after referred to as “RTVR tractors”) and additional requirements for the combination.

This document does not apply to:

- machines designed primarily for earth moving, even if their buckets and blades are replaced with forks (see EN 474 series);
- attachments.

This document does not address hazards which may occur

- a) when handling suspended loads which may swing freely;
- b) when using RTVR tractors on public roads;
- c) when operating in potentially explosive atmospheres;
- d) when operating underground;
- e) when towing trailers;
- f) when fitted with a personnel work platform (additional requirements are given in EN 1459-3);
- g) when using cruise-control.

This document does not provide a method of calculation for fatigue and strength of material.

This document is not applicable to RTVR tractors manufactured before the date of its publication.

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 1175-2:1998+A1:2010, *Safety of industrial trucks - Electrical requirements - Part 2: General requirements of internal combustion engine powered trucks*

EN 1459-5, *Rough-terrain trucks - Safety requirements and verification - Part 5: Attachments and attachment interface*¹

EN 15000:2008, *Safety of industrial trucks - Self propelled variable reach trucks - Specification, performance and test requirements for longitudinal load moment indicators and longitudinal load moment limiters*

EN 15830:2012, *Rough-terrain variable reach trucks - Visibility - Test methods and verification*

EN 60529:1991, *Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989)*²

¹ Under preparation. Stage at time of publication: prEN 1459-5:2018.