



SLOVENSKI STANDARD
SIST EN 1459-4:2021/oprA1:2023
01-junij-2023

Vozila za talni transport - Terenska vozila - Varnostne zahteve in preverjanje - 4. del: Dodatne zahteve za tovornjake z mehanizmom s spremenljivim dosegom za dvigovanje prosto visečih bremen - Dopolnilo A1

Rough-terrain trucks - Safety requirements and verification - Part 4: Additional requirements for variable-reach trucks handling freely suspended loads

Geländegängige Stapler - Sicherheitstechnische Anforderungen und Verifizierung - Teil 4: Zusätzliche Anforderungen für Stapler mit veränderlicher Reichweite zum Befördern angehängter Lasten

Chariots tout-terrain - Prescriptions de sécurité et vérification - Partie 4 : Prescriptions supplémentaires pour les chariots à portée-variable manutentionnant des charges suspendues à oscillation libre

Ta slovenski standard je istoveten z: EN 1459-4:2020/prA1

ICS:

53.060 Industrijski tovornjaki Industrial trucks

SIST EN 1459-4:2021/oprA1:2023 en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
EN 1459-4:2020
prA1

April 2023

ICS 53.060

English Version

Rough-terrain trucks - Safety requirements and verification - Part 4: Additional requirements for variable-reach trucks handling freely suspended loads

Chariots tout-terrain - Prescriptions de sécurité et vérification - Partie 4 : Prescriptions supplémentaires pour les chariots à portée-variable manutentionnant des charges suspendues à oscillation libre

Geländegängige Stapler - Sicherheitstechnische Anforderungen und Verifizierung - Teil 4: Zusätzliche Anforderungen für Stapler mit veränderlicher Reichweite zum Befördern angehängter Lasten

This draft amendment is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 150.

This draft amendment A1, if approved, will modify the European Standard EN 1459-4:2020. If this draft becomes an amendment, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration.

This draft amendment was established by CEN in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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, Türkiye and United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents

European foreword	3
1 Modification to Clause 1 Scope.....	4
2 Modification to Clause 2 Normative references.....	4
3 Modification to 4.1.2 Specific relation to EN 1459-1 and EN 1459-2	4
4 Modification to 5.1 Tests for trucks and for lifting attachments	4
5 Modification to 5.2.2 General test set up.....	4
6 Modification to 5.3.2 Lateral test procedure	5
7 Modification to 5.4 Strength tests for the connection point for lifting accessories.....	5
8 Modification to Annex A	5
9 Modification to Annex ZA.....	6
10 Modification to Bibliography.....	11

iTeh STANDARD PREVIEW
(standards.iteh.ai)

<https://standards.iteh.ai/catalog/standards/sist/0fef4f5b-6eac-4042-a113-f62d5850308b/sist-en-1459-4-2021-opra1-2023>

European foreword

This document (EN 1459-4:2020/prA1:2023) has been prepared by Technical Committee CEN/TC 150 “Industrial Trucks - Safety”, the secretariat of which is held by BSI.

This document is currently submitted to the CEN Enquiry.

The most significant changes introduced by Amendment 1 are:

- revision of dated and undated normative references to improve legal certainty in the application of this document;
- revision of Table A.1 and Table ZA.1;
- identification of D_{max} and d in Key of Figure 2;
- revision of Figure 3 for consistency and improvement
- revision of Table 1 for consistency.

This document has been prepared under a Standardization Request given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s) / Regulation(s).

For relationship with EU Directive(s) / Regulation(s), see informative Annex ZA, which is an integral part of EN 1459-4:2020.

ITEH STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 1459-4:2021/oprA1:2023](https://standards.iteh.ai/catalog/standards/sist/0fef4f5b-6eac-4042-a113-f62d5850308b/sist-en-1459-4-2021-opra1-2023)

<https://standards.iteh.ai/catalog/standards/sist/0fef4f5b-6eac-4042-a113-f62d5850308b/sist-en-1459-4-2021-opra1-2023>

1 Modification to Clause 1 Scope

Replace the following in first paragraph:

EN 1459-1:2017+A1:2020

with:

prEN 1459-1:2023

Replace the following in second indent:

ISO 21898:2004

with:

EN ISO 21898:2005

2 Modification to Clause 2 Normative references

Replace the following reference:

EN 1459-1:2017+A1:2020, Rough-terrain trucks — Safety requirements and verification — Part 1: Variable-reach trucks

with:

prEN 1459-1:2023, Rough-terrain trucks — Safety requirements and verification — Part 1: Variable-reach trucks

3 Modification to 4.1.2 Specific relation to EN 1459-1 and EN 1459-2

Replace the following in 4.1.2:

EN 1459-1:2017+A1:2020

with:

prEN 1459-1:2023 standards.iteh.ai/catalog/standards/sist/0fef4f5b-6eac-4042-a113-f62d5850308b/sist-en-1459-4-2021-opra1-2023

4 Modification to 5.1 Tests for trucks and for lifting attachments

Replace the following from NOTE in 5.1:

EN 1459-1:2017+A1:2020

with:

prEN 1459-1:2023

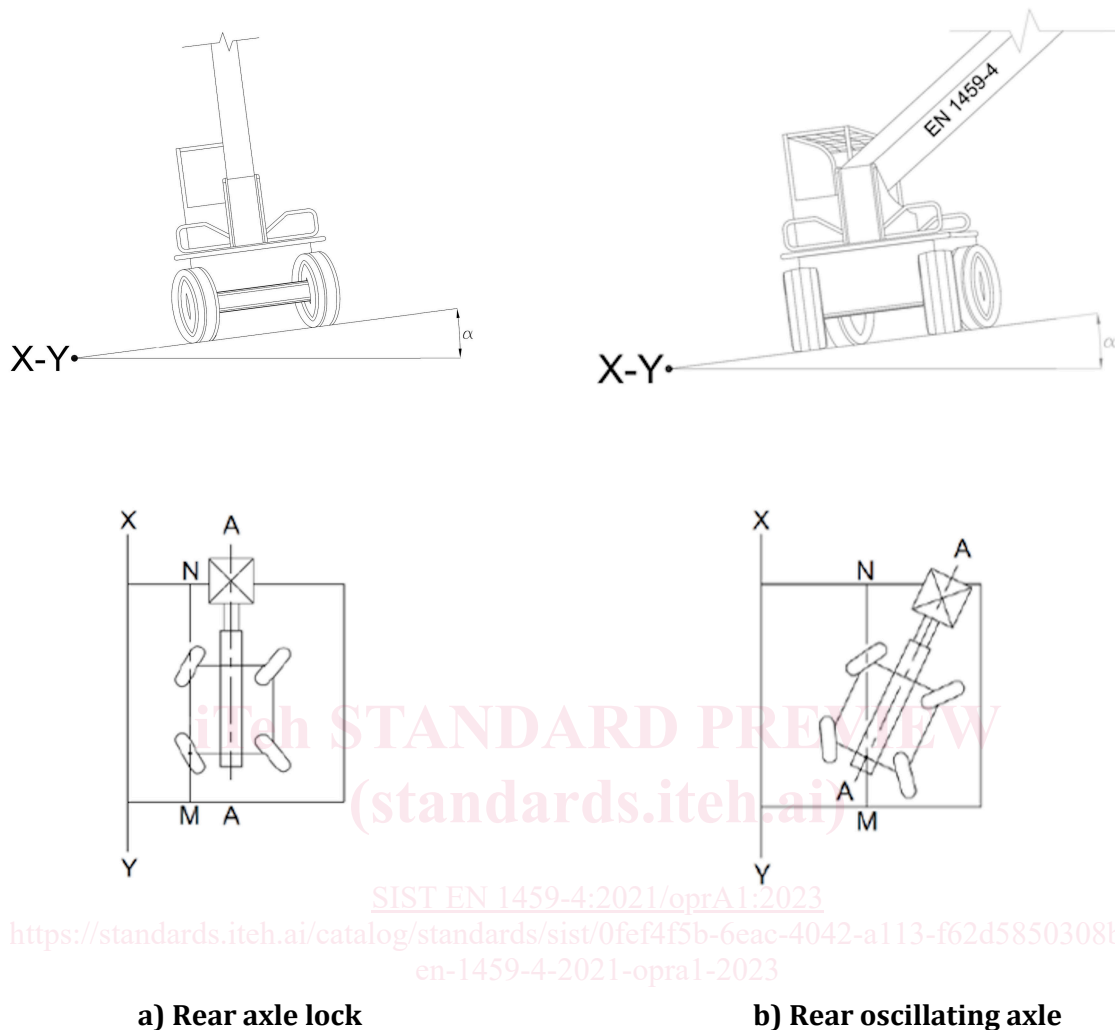
5 Modification to 5.2.2 General test set up

Add the following in Key of Figure 2:

- D_{\max} maximum horizontal distance between the lifting connection to the lifting accessory and pivot point between the carriage and boom
- d distance of test load from ground

6 Modification to 5.3.2 Lateral test procedure

Replace Figure 3 with the following:



a) Rear axle lock

b) Rear oscillating axle

Key

- A-A longitudinal centre plane of the truck
- X-Y tilt axis of the tilting platform
- M-N lateral tipping line for rear axle lock or for rear oscillating axle
- α test slope

Figure 3 — Position of the truck during pick and carry test

7 Modification to 5.4 Strength tests for the connection point for lifting accessories

Replace the following in first indent:

EN 1459-1, 5.3.2

with:

prEN 1459-1:2023, x.x.x

8 Modification to Annex A

Replace the following in first paragraph:

EN 1459-1 and EN 1459-2

with:

prEN 1459-1:2023 and EN 1459-2:2015+A1:2018

Replace Table A.1 with the following (addition underlined):

Table A.1 — Correspondence of significant hazards

Group	Significant hazard	Clause(s)/sub-clause(s) of this EN
1		
Mechanical hazards		
1.1	Due to machine parts or workpieces, e.g. by mechanical strength (break-up)	4.3.3 <u>4.4</u> 5.1 5.2 5.4
1.2	Instability	4.2 5.1 5.3
2		
Ergonomic hazards		
2.1	Human error during operation	4.3.1
3		
Hazards due to insufficient instruction for the driver/operator		
3.1	Insufficient instruction for the driver/operator	4.3.2 <u>6</u>
4		
Mechanical hazards caused by load falls, collisions, machine tipping		
4.1	Lack of stability	4.1.2 4.2 5.1 5.3
4.2	Uncontrolled loading, overloading, overturning moments exceeded	4.3.3
4.3	Inadequate holding devices/accessories	4.3.1
4.4	Inadequate selection of chains, ropes, lifting and accessories and their inadequate integration into the machine	4.3.1
4.5	Abnormal conditions of assembly/use/maintenance	4.3.1

9 Modification to Annex ZA

Replace Table ZA.1 with the following (additions underlined):

Table ZA.1 — Correspondence between this European Standard and Annex I of Directive 2006/42/EC

The relevant Essential Requirements of EU Directive 2006/42/EC	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
1.1.3. Materials and products	4.1.2	
1.1.4. Lighting	4.1.2	
1.1.5. Design of machinery to facilitate its handling	4.1.2	
1.1.6. Ergonomics	4.1.2	
1.1.7. Operating positions	4.1.2	
1.1.8. Seating	4.1.2	
1.2.1. Safety and reliability of control systems	4.1.2	
1.2.2. Control devices	4.1.2	
1.2.3. Starting	4.1.2	

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 1459-4:2021/oprA1:2023](https://standards.iteh.ai/catalog/standards/sist/0fef4f5b-6eac-4042-a113-f62d5850308b/sist-en-1459-4-2021-opra1-2023)

<https://standards.iteh.ai/catalog/standards/sist/0fef4f5b-6eac-4042-a113-f62d5850308b/sist-en-1459-4-2021-opra1-2023>

1.2.4.1. Normal stop	4.1.2	
1.2.4.3. Emergency stop	4.1.2	
1.2.6. Failure of the power supply	4.1.2	
1.3.1. Risk of loss of stability	4.2 4.1.2	
1.3.2. Risk of break-up during operation	4.1.2 4.3.3 4.4 5.2	
1.3.3. Risks due to falling or ejected objects	4.1.2	
1.3.4. Risks due to surfaces, edges or angles	4.1.2	
1.3.6. Risks related to variations in operating conditions	4.1.2	
1.3.7. Risks related to moving parts	4.1.2	
1.3.8.1. Moving transmission parts	4.1.2	
1.3.8.2. Moving parts involved in the process	4.1.2	
1.3.9. Risks of uncontrolled movements	4.1.2	
1.4.1. General requirements	4.1.2	
1.4.2.1. Fixed guards	4.1.2	
1.5.1. Electricity supply	4.1.2	
1.5.3. Energy supply other than electricity	4.1.2	
1.5.4. Errors of fitting	4.1.2	
1.5.5. Extreme temperatures	4.1.2	
1.5.6. Fire	4.1.2	
1.5.7. Explosion	4.1.2	
1.5.8. Noise	4.1.2	
1.5.9. Vibrations	4.1.2	
1.5.10. Radiation	4.1.2	