SLOVENSKI STANDARD
oSIST prEN 619:2026

01-oktober-2026

Naprave in sistemi za kontinuirni transport - Varnostne zahteve za opremo za kontinuirni transport kosovnih tovorov

Continuous handling equipment and systems - Safety requirements for equipment for mechanical handling of unit loads

Stetigförderer und Systeme - Sicherheitsanforderungen an mechanische Fördereinrichtungen für Stückgut

Équipements et systèmes de manutention continue - Prescriptions de sécurité pour les équipements de manutention mécanique des charges isolées

Ta slovenski standard je istoveten z: **prEN 619**

ICS:

53.040.10	Transporterji	Conveyors

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English Version

Continuous handling equipment and systems - Safety requirements for equipment for mechanical handling of unit loads

Équipements et systèmes de manutention continue - Prescriptions de sécurité pour les équipements de manutention mécanique des charges isolées

Stetigförderer und Systeme - Sicherheitsanforderungen an mechanische Fördereinrichtungen für Stückgut

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 148.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

This draft European Standard 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.

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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.

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

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

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European foreword

This document (prEN 619:2026) has been prepared by Technical Committee CEN/TC 148 “Continuous handling equipment and systems - Safety”, the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

This document supersedes EN 619:2022.

This document has been prepared under a standardization request addressed to [the relevant ESO] by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

This document forms part of a series of five standards the titles of which are given below:

— EN 617, Continuous handling equipment and systems — Safety and EMC requirements for the equipment for the storage of bulk materials in silos, bunkers, bins and hoppers;

— EN 618, Continuous handling equipment and systems — Safety and EMC requirements for equipment for mechanical handling of bulk materials except fixed belt conveyors;

— EN 619, Continuous handling equipment and systems — Safety requirements for equipment for mechanical handling of unit loads;

— EN 620, Continuous handling equipment and systems — Safety requirements for fixed belt conveyors for bulk material;

— EN 741, Continuous handling equipment and systems — Safety requirements for systems and their components for pneumatic handling of bulk materials.

Significant technical changes between this document and EN 619:2022 are the following:

1) changed structure;

2) extension of Scope: pouch sorter, garment on hanger sorter;

3) more detailed information about area concept;

4) the maximum speeds depending on the mass and on the different areas has been specified;

5) requirements for noise reduction and measurement and declaration of noise emission (addition of a noise test code);

6) list of required performance levels for safety related parts of control systems; different performance levels for different applications;

7) verification of safety requirements and/or measures has been improved;

8) figures were relocated within text;

9) safety requirements/measures for the single types of conveyors have been described more detailed;

10) longer parts of subclause 4.20 became own Annexes.

Introduction

This document is a type-C standard as stated in EN ISO 12100:2010.

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.

If a machine, which was produced under a different standard and is brought into a conveyor system, the complete system, including this new machine, should comply with EN 619.

1 Scope

This document deals with requirements for continuous handling equipment and systems for unit loads as well as design, transport, installation, commissioning, operation, adjustment, maintenance and cleaning to minimize the hazards listed in Annex L. These hazards can arise during the operation and maintenance of continuous handling equipment and systems when carried out in accordance with the specifications given by the manufacturer or his authorized representative. This document deals with safety related technical verification during commissioning.

In the following continuous handling equipment and systems for unit loads are called “machine(s)/machinery”.

In public areas, only baggage carousels and check-in conveyors for airports are dealt with in this document.

NOTE Aircraft ground support equipment is covered by the standards of CEN/TC 274. This document applies to mechanical handling devices as defined in Clause 3, stand-alone or combined to form a conveyor system, and designed exclusively for moving unit loads continuously on predefined routes from the loading to the unloading points, possibly with varying speed or cyclically. It applies to all conveyor systems and the mechanical handling aspects of machinery only.

Safety requirements and/or measures in this document apply to equipment used in all environments. However, additional risk assessments and safety measures can be considered for uses in severe conditions, e.g.:

— reezer applications;

— high temperatures;

— corrosive environments;

— strong magnetic fields;

— potentially explosive atmospheres;

— radioactive conditions and loads the nature of which could lead to a dangerous situation (e.g. molten metal, acids/bases, especially brittle loads, explosives);

— operation on ships;

— earthquake effects; and

— contact with foodstuff.

This document does not cover:

— hazards during decommissioning;

— conveying equipment and systems used underground or in public areas and to aircraft ground support equipment;

— continuous handling equipment and/or systems 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 341:2011, *Personal fall protection equipment — Descender devices for rescue*

EN 614-1:2006+A1:2009, *Safety of machinery — Ergonomic design principles — Part 1: Terminology and general principles*

EN 528:2021+A1:2022, *Rail dependent storage and retrieval equipment — Safety requirements for S/R machines*

EN 795:2012, *Personal fall protection equipment — Anchor devices*

EN 547-1:1996+A1:2008, *Safety of machinery — Human body measurements — Part 1: Principles for determining the dimensions required for openings for whole body access into machinery*

EN 547-2:1996+A1:2008, *Safety of machinery — Human body measurements — Part 2: Principles for determining the dimensions required for access openings*

EN 842:1996+A1:2008, *Safety of machinery — Visual danger signals — General requirements, design and testing*

EN 1837:2020, *Safety of machinery — Integral lighting of machines*

EN IEC 61000-6-2:2019, *Electromagnetic compatibility (EMC) — Part 6-2: Generic standards — Immunity standard for industrial environments (IEC 61000-6-2:2016)*

EN IEC 61496-1:2020, *Safety of machinery — Electro-sensitive protective equipment — Part 1: General requirements and tests (IEC 61496-1:2020)*

EN IEC 61496-2:2020, *Safety of machinery — Electro-sensitive protective equipment — Part 2: Particular requirements for equipment using active opto-electronic protective devices (AOPDs) (IEC 61496-2:2020)*

EN IEC 61496-3:2019, *Safety of machinery — Electro-sensitive protective equipment — Part 3: Particular requirements for active opto-electronic protective devices responsive to diffuse Reflection (AOPDDR) (IEC 61496-3:2018)*

EN IEC 61800-1:2021, *Adjustable speed electrical power drive systems — Part 1: General requirements — Rating specifications for low voltage adjustable speed DC power drive systems (IEC 61800-1:2021)*

EN IEC 61800-2:2021, *Adjustable speed electrical power drive systems — Part 2: General requirements — Rating specifications for adjustable speed AC power drive systems (IEC 61800-2:2021)*

EN IEC 60947-5-2:2020, *Low-voltage switchgear and controlgear — Part 5-2: Control circuit devices and switching elements - Proximity switches (IEC 60947-5-2:2019)*

EN 60947-5-5:1997,[1] *Low-voltage switchgear and controlgear — Part 5-5: Control circuit devices and switching elements — Electrical emergency stop device with mechanical latching function (IEC 60947-5-5:1997)*

EN ISO 3266:2010,[2] *Forged steel eyebolts grade 4 for general lifting purposes (ISO 3266:2010)*

EN ISO 3691-4:2023, *Industrial trucks — Safety requirements and verification — Part 4: Driverless industrial trucks and their systems (ISO 3691-4:2023)*

EN ISO 4413:2010, *Hydraulic fluid power — General rules and safety requirements for systems and their components (ISO 4413:2010)*

EN ISO 4414:2010, *Pneumatic fluid power — General rules and safety requirements for systems and their components (ISO 4414:2010)*

EN ISO 4871:2009, *Acoustics — Declaration and verification of noise emission values of machinery and equipment (ISO 4871:1996)*

EN ISO 7010:2020,[3] *Graphical symbols — Safety colours and safety signs — Registered safety signs (ISO 7010:2019, Corrected version 2020-06)*

EN ISO 7731:2008, *Ergonomics — Danger signals for public and work areas — Auditory danger signals (ISO 7731:2003)*

EN ISO 8100-1:2026, *Lifts for the transport of persons and goods — Part 1: Safety rules for the construction and installation of passenger and goods passenger lifts (ISO 8100-1:2026, including corrected version 2026-05)*

EN ISO 11161:2007, *Safety of machinery — Integrated manufacturing systems — Basic requirements (ISO 11161:2007)*

EN ISO 11201:2010, *Acoustics — Noise emitted by machinery and equipment — Determination of emission sound pressure levels at a work station and at other specified positions in an essentially free field over a reflecting plane with negligible environmental corrections (ISO 11201:2010)*

EN ISO 11688-1:2009, *Acoustics — Recommended practice for the design of low-noise machinery and equipment — Part 1: Planning (ISO/TR 11688-1:1995)*

EN ISO 12100:2010, *Safety of machinery — General principles for design — Risk assessment and risk reduction (ISO 12100:2010)*

EN ISO 13732-1:2008, *Ergonomics of the thermal environment — Methods for the assessment of human responses to contact with surfaces — Part 1: Hot surfaces (ISO 13732-1:2006)*

EN ISO 13849-1:2023, *Safety of machinery — Safety-related parts of control systems — Part 1: General principles for design (ISO 13849-1:2023)*

[1] As impacted by EN 60947-5-5:1997/A1:2005, EN 60947-5-5:1997/A11:2013, EN 60947-5-5:1997/A2:2017.
[2] As impacted by EN ISO 3266:2010/A1:2015.
[3] As impacted by EN ISO 7010:2020/A1:2020, EN ISO 7010:2020/A2:2022, EN ISO 7010:2020/A3:2022, EN ISO 7010:2020/A4:2023, EN ISO 7010:2020/A5:2023, EN ISO 7010:2020/A6:2023, EN ISO 7010:2020/A7:2024.

EN ISO 13850:2015, *Safety of machinery — Emergency stop function — Principles for design (ISO 13850:2015)*

EN ISO 13851:2019, *Safety of machinery — Two-hand control devices — Principles for design and selection (ISO 13851:2019)*

EN ISO 13854:2019, *Safety of machinery — Minimum gaps to avoid crushing of parts of the human body (ISO 13854:2017)*

EN ISO 13855:2024, *Safety of machinery — Positioning of safeguards with respect to the approach of the human body (ISO 13855:2024)*

EN ISO 13856-1:2013, *Safety of machinery — Pressure-sensitive protective devices — Part 1: General principles for design and testing of pressure-sensitive mats and pressure-sensitive floors (ISO 13856-1:2013)*

EN ISO 13856-2:2013, *Safety of machinery — Pressure-sensitive protective devices — Part 2: General principles for design and testing of pressure-sensitive edges and pressure-sensitive bars (ISO 13856-2:2013)*

EN ISO 13856-3:2013, *Safety of machinery — Pressure-sensitive protective devices — Part 3: General principles for design and testing of pressure-sensitive bumpers, plates, wires and similar devices (ISO 13856-3:2013)*

EN ISO 13857:2019, *Safety of machinery — Safety distances to prevent hazard zones being reached by upper and lower limbs (ISO 13857:2019)*

EN ISO 14118:2018, *Safety of machinery — Prevention of unexpected start-up (ISO 14118:2017)*

EN ISO 14119:2025, *Safety of machinery — Interlocking devices associated with guards — Principles for design and selection (ISO 14119:2024)*

EN ISO 14120:2015, *Safety of machinery — Guards — General requirements for the design and construction of fixed and movable guards (ISO 14120:2015)*

EN ISO 14122-1:2016, *Safety of machinery — Permanent means of access to machinery — Part 1: Choice of fixed means and general requirements of access (ISO 14122-1:2016)*

EN ISO 14122-2:2016, *Safety of machinery — Permanent means of access to machinery — Part 2: Working platforms and walkways (ISO 14122-2:2016)*

EN ISO 14122-3:2016, *Safety of machinery — Permanent means of access to machinery — Part 3: Stairs, stepladders and guard-rails (ISO 14122-3:2016)*

EN ISO 14122-4:2016, *Safety of machinery — Permanent means of access to machinery — Part 4: Fixed ladders (ISO 14122-4:2016)*

ISO 4309:2017, *Cranes — Wire ropes — Care and maintenance, inspection and discard*

3 Terms, definitions and abbreviations

3.1 General

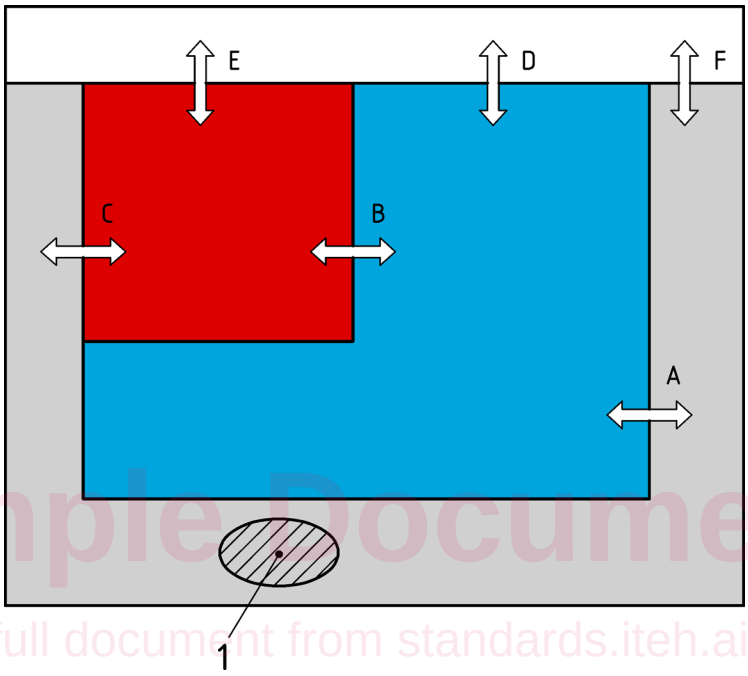
For the purposes of this document, the terms and definitions given in EN ISO 12100:2010 and the following apply.

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

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

3.2 Terms and definitions

3.2.1
area concept
subdivision of the locations in a company with defined boundaries (see Figure 1)



Key

A	entry /exit point from working place / traffic area to restricted area either for unit load transport or personnel access
B	entry /exit point from restricted area to danger area either for unit load transport or personnel access
C	entry /exit point from working place / traffic area to danger area either for unit load transport or personnel access
D	entry /exit point from public area to restricted area either for unit load transport or personnel access
E	entry /exit point from public area to danger area either for unit load transport or personnel access
F	entry /exit point from public area to working place / traffic area either for unit load transport or personnel access
White area	public area of passenger terminal (airport, harbour)
Grey area	working place / traffic area
Blue area	restricted area
Red area	danger area
1	Intended working place

Figure 1 — Area concept

3.2.1.1
working place
place (including intended working place see 3.2.1.1.1 and reachable area see 3.2.1.1.2) where operators(s) are working directly at a conveyor (inspection, maintenance and cleaning are excluded)