



SLOVENSKI STANDARD
oSIST prEN 1009-6:2021
01-julij-2021

**Stroji za mehansko obdelavo mineralov in podobnih trdnih snovi - Varnost - 6. del:
Posebne zahteve za premične stroje**

Machines for mechanical processing of minerals and similar solid materials - Safety -
Part 6: Specific requirements for mobile machinery

Maschinen für die mechanische Aufbereitung von Mineralien und ähnlichen festen
Stoffen - Sicherheit - Teil 6: Spezifische Anforderungen für mobile Maschinen

Machines pour le traitement mécanique des minéraux et des matières solides similaires -
Sécurité - Partie 6 : Prescriptions spécifiques pour les unités mobiles

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Ta slovenski standard je istoveten z: prEN 1009-6

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73.120	Oprema za predelavo rudnin	Equipment for processing of minerals
91.220	Gradbena oprema	Construction equipment

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Machines for mechanical processing of minerals and similar solid materials - Safety - Part 6: Specific requirements for mobile machinery

Machines pour le traitement mécanique des minéraux et des matières solides similaires - Sécurité - Partie 6 : Prescriptions spécifiques pour les unités mobiles

Maschinen für die mechanische Aufbereitung von Mineralien und ähnlichen festen Stoffen - Sicherheit - Teil 6: Spezifische Anforderungen für mobile Maschinen

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 151.

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European foreword

This document (prEN 1009-6:2021) has been prepared by Technical Committee CEN/TC 151 “Construction equipment and building material machines - Safety”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

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).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

EN 1009 consists of the following parts, under the general title *Machines for mechanical processing of minerals and similar solid materials — Safety*:

- Part 1: Common requirements for single machines and processing plants
- Part 2: Specific requirements for feeding machinery
- Part 3: Specific requirements for crushing and milling machinery
- Part 4: Specific requirements for screening machinery
- Part 5: Specific requirements for cleaning, recycling, sorting and mud treatment machinery
- Part 6: Specific requirements for mobile machinery.

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prEN 1009-6:2021 (E)**Introduction**

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

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 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.

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 in 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.

1 Scope

This document, together with EN 1009-1:2020+A1:202X, specifies safety requirements and verification for the design and construction of mobile machinery for crushing, screening, feeding, conveying minerals and by-products: (cement, lime, gypsum, sand, gravel, industrial minerals, metalliferous ore, and hard and soft rock aggregates, coal) and by-products (slag and ashes, production and demolition waste) in construction and industry.

In addition, this document specifies the type of information on safe working practices (including residual risks) to be provided by the manufacturer.

The requirements of this document are complementary to the common requirements formulated in EN 1009-1:2020+A1:202X, EN 1009-2:2020+A1:202X, EN 1009-3:2020+A1:202X, EN 1009-4:2020+A1:202X, EN 1009-5:2020+A1:202X. This part does not repeat the requirements from EN 1009-1:2020+A1:202X, but adds or replaces them.

When requirements of this document are different from those which are stated in EN 1009-1:2020+A1:202X, EN 1009-2:2020+A1:202X, EN 1009-3:2020+A1:202X, EN 1009-4:2020+A1:202X, EN 1009-5:2020+A1:202X the requirements of this document takes precedence over the requirements of EN 1009-1:2020 for machines that have been designed and built according to the provisions of this document.

This document, together with EN 1009-1:2020+A1:202X, EN 1009-2:2020+A1:202X, EN 1009-3:2020+A1:202X, EN 1009-4:2020+A1:202X, EN 1009-5:2020+A1:202X deals with all the identified significant hazards, hazardous situations and events relevant to machinery for cleaning, recycling, mud treatment when they are used as intended and under the conditions of misuse which are reasonably foreseeable by the manufacturer associated with the whole lifetime of the machine (see Annex A).

This document does not apply to machines with a seated or standing operator while driving.

This document does not cover: <https://standards.iteh.ai/catalog/standards/sist/842c5c9b-0147-41f6-833a-5f6e0d5bfb6b/osist-pren-1009-6-2021>

- design relating to road traffic regulations (e.g. lighting, dimensions, speed limit plate);
- hazards arising from the use of the machines in potentially explosive atmospheres as well as from processing of explosive materials and risks related to electromagnetic compatibility;
- hazards arising from the use of the laser sensors.

NOTE For travelling on public roads, national traffic regulations apply (e.g. braking, steering, lighting, towing etc.) until harmonized requirements are available.

This document is not applicable to mobile machines, which are manufactured before the date of publication of this document by CEN.

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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 1009-1:2020+A1:202X¹⁾, *Feeding, crushing, milling, sizing and sorting machines for mechanical processing of minerals and similar solid materials — Safety — Part 1: Common requirements for single machines and processing plants*

EN 1009-2:2020+A1:202X¹⁾, *Feeding, crushing, milling, sizing and sorting machines for mechanical processing of minerals and similar solid materials — Safety — Part 2: Specific requirements for feeding machinery*

EN 1009-3:2020+A1:202X¹⁾, *Feeding, crushing, milling, sizing and sorting machines for mechanical processing of minerals and similar solid materials — Safety — Part 3: Specific requirements for crushing and milling machinery*

EN 1009-4:2020+A1:202X¹⁾, *Feeding, crushing, milling, sizing and sorting machines for mechanical processing of minerals and similar solid materials — Safety — Part 4: Specific requirements for screening machinery*

EN 1009-5:2020+A1:202X¹⁾, *Feeding, crushing, milling, sizing and sorting machines for mechanical processing of minerals and similar solid materials — Safety — Part 5: Specific requirements for cleaning, recycling, sorting and mud treatment machinery*

EN 620:202X¹⁾, *Continuous handling equipment and systems — Safety and EMC requirements for fixed belt conveyors for bulk materials*

EN 60204-1:2006, *Safety of machinery — Electrical equipment of machines — Part 1: General requirements (IEC 60204-1:2005)*

EN 61496-1:2013, *Safety of machinery — Electro-sensitive protective equipment — Part 1: General requirements and tests (IEC 61496-1:2012)*

EN ISO 2860:2008, *Earth-moving machinery — Minimum access dimensions (ISO 2860:1992)*

EN ISO 2867:2011, *Earth-moving machinery — Access systems (ISO 2867:2011)*

EN ISO 3744:2010, *Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Engineering methods for an essentially free field over a reflecting plane (ISO 3744:2010)*

EN ISO 3746:2010, *Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Survey method using an enveloping measurement surface over a reflecting plane (ISO 3746:2010)*

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

¹ Under preparation.

EN ISO 7010:2020, *Graphical symbols — Safety colours and safety signs — Registered safety signs (ISO 7010:2020)*

EN ISO 9614-2:1996, *Acoustics — Determination of sound power levels of noise sources using sound intensity — Part 2: Measurement by scanning (ISO 9614-2:1996)*

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 11202:2010, *Acoustics — Noise emitted by machinery and equipment — Determination of emission sound pressure levels at a work station and at other specified positions applying approximate environmental corrections (ISO 11202:2010)*

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

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 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)*

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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 3864-1:2011, *Graphical symbols — Safety colours and safety signs — Part 1: Design principles for safety signs and safety markings*

ISO 3864-2:2016, *Graphical symbols — Safety colours and safety signs — Part 2: Design principles for product safety labels*

ISO 3864-3:2012, *Graphical symbols — Safety colours and safety signs — Part 3: Design principles for graphical symbols for use in safety signs*

ISO 7000:2019, *Graphical symbols for use on equipment*

ISO 9244:2008,² *Earth-moving machinery — Machine safety labels. General principles*

² As impacted by ISO 9244:2008/AMD 1:2016.

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ISO 9533:2010, *Earth-moving machinery — Machine-mounted audible travel alarms and forward horns — Test methods and performance criteria*

ISO 17063:2003, *Earth-moving machinery — Braking systems of pedestrian-controlled machines — Performance requirements and test procedures*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 1009-1:2020+A1:202X, EN 1009-2:2020+A1:202X, EN 1009-3:2020+A1:202X, EN 1009-4:2020+A1:202X, EN 1009-5:2020+A1:202X 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>

3.2**mobile machine****mobile machinery**

crawler or wheel, self-propelled, trailed or towed machine movable from a worksite to another or from a place to another on the same worksite

Note 1 to entry: A crawler machine is also known as a track or tracked machine.

3.3**compact mobile machine**

machinery, designed where main components for example a feed hopper, vibrating feeder, crusher, vibrating screen, etc. do not need to be removed prior to transportation between worksites

Note 1 to entry: Typically transport is enabled by folding components such as hopper walls, conveyors and platforms.

Note 2 to entry: *Attachments* (3.7) can be removed from the machine.

3.4**heavy mobile machine**

machinery, designed where main components for example a feed hopper, vibrating feeder, crusher, vibrating screen that needs to be removed prior to transportation between worksites

3.5**extra-heavy mobile machine**

mobile machine (3.2), designed to remain on one worksite during its intended life and where main components for example a feed hopper, vibrating feeder, crusher, vibrating screen need to be shipped separately and assembled on worksite

Note 1 to entry: Generally, extra-heavy mobile machines have an operating mass greater than 150 t.

3.7**attachment**

part or mechanism fitted to the machine to enhance or change its application

Note 1 to entry: Attachments can include but are not limited to, magnetic separator, metal detector, additional vibrating screen, side conveyor, dust suppression, belt scale, hydraulic rock pick and hopper extensions.

3.8**feed material**
charged material

material which has been loaded into the receiving hopper and /or the feed device

[Source: ISO 21873-1:2015, 3.10]

3.9**by-pass device**

device that separates and diverts material before the main crushing or screening process

Note 1 to entry: By-pass devices can include, a chute for mixing with processed material, reversible belt conveyors, vibrating screen.

3.10**by-pass conveyor**

discharge device for material separated by the bypass device

3.11**discharge device**

mechanism that removes processed or unprocessed material

Note 1 to entry: Examples of discharge devices can include, belt conveyor, screw conveyor, chute, vibrating feeder, reciprocating plate feeder.

3.12**return conveyor**

mechanism for transferring material back to the crusher or vibrating screen or feed devices for re-processing

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3.16**gradient**

maximum inclination the machine is able to traverse, front to back and side to side, without losing stability, causing component damage or spilling fluids

3.17**control system**

system for controlling the operation of the mobile machinery

Note 1 to entry: This system includes an operator interface and mechanical, hydraulic, pneumatic, electric or electronic components for controlling the operation of the mobile machinery

3.18**prime mover**

engine, motor or other device which provides mechanical energy for linear or rotational movement

[SOURCE: ISO 21873-1:2015, 3.7]

Note 1 to entry: Examples of prime movers include an internal combustion engine, an electrical generator, an electric motor

3.20**routine maintenance**

maintenance that is specified in the periodic maintenance schedule in the instruction handbook for performing scheduled daily/weekly/monthly maintenance on the machine

prEN 1009-6:2021 (E)**3.21****tracked radial machine**

mobile machine (3.2) which has tracks to enable mobility from one location to another and in addition has wheels which are used primarily to enable radial travel of the machine

3.22**bridging**

blocked material in the crushing chamber where the moving crushing parts are free to move

3.23**operator's position**

area from which an operator controls the travel and/or work functions of the machine

Note 1 to entry: The operator's position for mobile machinery is not a fixed position when the machine is remote controlled.

4 Safety requirements and/or protective/risk reduction measures**4.1 General**

Machinery shall comply with the safety requirements and/or protective/risk reduction measures of this clause.

In addition, the machine shall be designed according to the principles of EN ISO 12100 for relevant, but not significant hazards, which are not dealt with by this document.

All safety requirements of EN 1009-1:2020+A1:202X apply to mobile machines unless specified requirement in this document.

When relevant, safety requirements of EN 1009-2:2020+A1:202X to EN 1009-5:2020+A1:202X apply to mobile machines unless specified requirement in this document.

Mobile machines shall be designed and built to minimise the need for inspection and maintenance inside the machine, e.g. for a screen by the following means:

- moveable chutes and conveyors to increase access;
- external media tensioning systems;
- moveable chutes and conveyors to increase access;
- side and end access openings, separating screens, angle adjustment.

Means shall be provided for the instruction handbook (whether in physical or digital format) to be accessible and available for use. A space intended for the safekeeping of the instruction handbook and other instructions shall be provided on the machine.

4.2 Openings**4.2.1 General**

For exceptional maintenance as defined in EN 1009-1:2020+A1:202X, 3.16, openings shall be in accordance with EN ISO 2860:2008.

Where noise encapsulation or noise barrier is fitted, all maintenance openings shall be in accordance with EN ISO 2860:2008. This exemption applies to openings in the encapsulation itself and its surrounding structures.

4.2.2 Compact mobile machines

4.2.2.1 General

By exception to EN 1009-1:2020+A1:202X, 4.2 openings shall be in accordance with EN ISO 2860:2008.

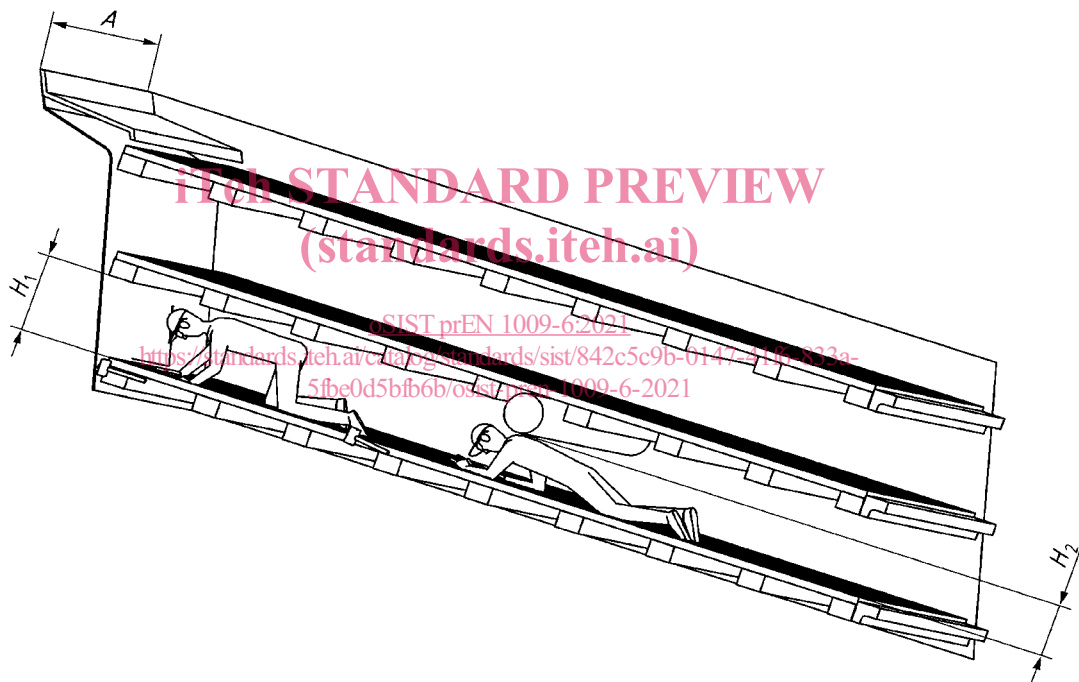
4.2.2.2 Access opening

Access opening for upper body access for the purpose of maintenance shall measure 330 mm × 580 mm as a minimum.

4.2.2.3 Passage opening

For a screening machine installed in a compact mobile machine, when access inside the screen is required for inspection and maintenance, in adaption to EN 1009-4:2020+A1:202X, 4.2.4.3.2, 4.2.4.4.1, 4.2.4.4.2 and 4.2.4.2, the distance between the deck and the obstacle (H_2) shall be minimum 366 mm and distance between two decks under cross beam (H_1) shall be minimum 450 mm. See Figure 1.

Dimensions in millimetres



Key

A	minimum width of opening
$H_1 = 450$	distance between two decks under cross beam
$H_2 = 366$	distance between the deck and the obstacle

Figure 1 — Passage dimensions between two decks if crawling is required

4.2.3 Heavy mobile machines

Screening machinery installed in heavy mobile machines, shall meet EN 1009-4:2020+A1:202X when the screen needs to be removed for transportation constraints.

Screening machinery that remain in the mobile machine for transportation shall meet 4.2.2.