



# SLOVENSKI STANDARD SIST EN ISO 6909:2026

01-november-2026

Nadomešča:

SIST EN 12622:2010+A1:2014

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## Obdelovalni stroji - Varnost – Stikalnice za upogibanje pločevine (ISO 6909:2026)

Machine tools - Safety - Press brakes (ISO 6909:2026)

Werkzeugmaschinen-Sicherheit - Gesenkbiegepressen (ISO 6909:2026)

Sécurité des machines outils - Presses plieuses (ISO 6909:2026)

**Ta slovenski standard je istoveten z: EN ISO 6909:2026**

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### ICS:

|           |                                        |                                       |
|-----------|----------------------------------------|---------------------------------------|
| 13.110    | Varnost strojev                        | Safety of machinery                   |
| 25.120.10 | Kovaški stroji. Stiskalnice.<br>Škarje | Forging equipment. Presses.<br>Shears |

**SIST EN ISO 6909:2026**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN ISO 6909

June 2026

ICS 13.110; 25.080.01

Supersedes EN 12622:2009+A1:2013

English Version

Machine tools - Safety - Press brakes (ISO 6909:2026)

Machines-outils - Sécurité - Presses plieuses (ISO  
6909:2026)

Werkzeugmaschinen-Sicherheit - Gesenkbiegepressen  
(ISO 6909:2026)

This European Standard was approved by CEN on 15 February 2026.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists 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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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
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| <b>Contents</b>                                                                                                                                                 | <b>Page</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>European foreword</b> .....                                                                                                                                  | <b>3</b>    |
| <b>Annex ZA (informative) Relationship between this European Standard and the essential requirements of EU Directive 2006/42/EC aimed to be covered</b> .....   | <b>4</b>    |
| <b>Annex ZB (informative) Relationship between this European Standard and the essential requirements of Regulation (EU) 2023/1230 aimed to be covered</b> ..... | <b>12</b>   |

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## European foreword

This document (EN ISO 6909:2026) has been prepared by Technical Committee ISO/TC 39 "Machine tools" in collaboration with Technical Committee CEN/TC 143 "Machine tools - Safety" the secretariat of which is held by SNV.

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 December 2026, and conflicting national standards shall be withdrawn at the latest by December 2026.

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.

This document supersedes EN 12622:2009+A1:2013.

This document has been prepared under a standardization request addressed to CEN 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 or ZB, which is an integral part of this document.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations 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, Türkiye and the United Kingdom.

## Endorsement notice

The text of ISO 6909:2026 has been approved by CEN as EN ISO 6909:2026 without any modification.

## Annex ZA (informative)

### Relationship between this European Standard and the essential requirements of EU Directive 2006/42/EC aimed to be covered

This European Standard has been prepared under a Commission's standardization request "M/396 Mandate to CEN and CENELEC for Standardisation in the field of machinery" to provide one voluntary means of conforming to essential requirements of Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC (recast).

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive, and associated EFTA regulations.

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

| The relevant Essential Requirements of Directive 2006/42/EC | Clause(s)/subclause(s) of this EN                                                                                                                                                          | Remarks/Notes                                           |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| 1.1.1 - Definitions                                         |                                                                                                                                                                                            |                                                         |
| 1.1.2 - Principles of safety integration                    | 5.2.1.1<br>5.4.1<br>7.2.2 e), o)                                                                                                                                                           | Partially covered (only 1.1.2 a) and c) are applicable) |
| 1.1.3 - Materials and products                              | 5.6.6                                                                                                                                                                                      |                                                         |
| 1.1.4 - Lighting                                            | 5.6.3                                                                                                                                                                                      |                                                         |
| 1.1.5 - Design of machinery to facilitate its handling      | 5.6.3                                                                                                                                                                                      |                                                         |
| 1.1.6 - Ergonomics                                          | 5.6.3                                                                                                                                                                                      |                                                         |
| 1.1.7 - Operating positions                                 |                                                                                                                                                                                            | Not applicable                                          |
| 1.1.8 - Seating                                             |                                                                                                                                                                                            | Not applicable                                          |
| 1.2.1 - Safety and reliability of control systems           | 5.1/5.2.1.4.1/5.3.1/5.3.4/5.3.5.1/5.3.5.2 /<br>5.3.5.4/5.3.5.11/5.3.5.12/5.3.5.13/<br>5.3.5.14/5.3.5.15/5.3.5.16/5.3.5.19/<br>5.3.5.20/5.3.5.21/5.3.5.22/5.3.5.23/5.3.5 /<br>5.3.6.5/5.3.7 |                                                         |
| 1.2.2 - Control devices                                     | 5.3.2/5.3.6.3/5.4.2/5.4.3/5.6.3                                                                                                                                                            |                                                         |
| 1.2.3 - Starting                                            | 5.3.5.2/5.3.5.23/5.3.6/5.3.6.1/5.3.6.2/<br>5.3.6.3/5.4.2/5.4.3                                                                                                                             |                                                         |

| The relevant Essential Requirements of Directive 2006/42/EC          | Clause(s)/subclause(s) of this EN                                                                                                                                                       | Remarks/Notes  |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| 1.2.4.1 - Normal stop                                                | 5.3.5.3/5.3.5.5/5.3.5.6/5.3.5.7/<br>5.3.5.8/5.3.5.9/5.3.5.10/5.3.5.11/<br>5.3.5.12/5.3.5.17/5.3.6/5.3.6.4/5.3.6.5                                                                       |                |
| 1.2.4.2 - Operational stop                                           | 5.3.5.6/5.3.5.7/5.3.5.8/5.3.5.11/<br>5.3.5.12/5.3.6                                                                                                                                     |                |
| 1.2.4.3 - Emergency stop                                             | 5.3.5.3/5.3.5.10/5.3.5.11/5.3.5.12                                                                                                                                                      |                |
| 1.2.4.4 - Assembly of machinery                                      |                                                                                                                                                                                         | Not applicable |
| 1.2.5 - Selection of control or operating modes                      | 5.1/5.3.5.18/5.3.5.22/5.4                                                                                                                                                               |                |
| 1.2.6 - Failure of the power supply                                  | 5.3.3                                                                                                                                                                                   |                |
| 1.3.1 - Risk of loss of stability                                    | 5.5.1/5.5.2/5.5.3/5.5.4                                                                                                                                                                 |                |
| 1.3.2 - Risk of break-up during operation                            | 5.6.4/5.6.8                                                                                                                                                                             |                |
| 1.3.3 - Risks due to falling or ejected objects                      | 5.2.2.1.2/5.5.4                                                                                                                                                                         |                |
| 1.3.4 - Risks due to surfaces, edges or angles                       |                                                                                                                                                                                         | Not covered    |
| 1.3.5 - Risks related to combined machinery                          |                                                                                                                                                                                         | Not applicable |
| 1.3.6 - Risks related to variations in operating conditions          | 5.3.5.18                                                                                                                                                                                |                |
| 1.3.7 - Risks related to moving parts                                | 5.1/5.2.1.1/5.2.2.1.2/5.3.5.17.2/<br>5.3.5.18/5.3.5.19/5.3.5.20/5.3.5.21                                                                                                                |                |
| 1.3.8 - Choice of protection against risks arising from moving parts | 5.1/5.2.1.1/5.2.1.2/5.2.1.3/5.2.2.1.1/<br>5.2.2.2/5.2.2.3/5.3.5.18/5.2.1.1/5.2.1.2/<br>5.2.1.3/5.2.1.4.1/<br>5.2.2.1.1/5.2.2.1.2/5.2.2.2/5.2.2.3/<br>5.3.5.18/5.3.5.20/5.3.5.21/Annex B |                |
| 1.3.8.1 - Moving transmission parts                                  | 5.1/5.2.1.1/5.2.1.2/5.2.1.3/5.2.2.1.1/<br>5.2.2.2/5.2.2.3/5.3.5.18                                                                                                                      |                |
| 1.3.8.2 - Moving parts involved in the process                       | 5.1/5.2.1.1/5.2.1.2/5.2.1.3/5.2.1.4.1/<br>5.2.2.1.1/5.2.2.1.2/5.2.2.2/5.2.2.3/<br>5.3.5.18/5.3.5.20/5.3.5.21                                                                            |                |
| 1.3.9 - Risks of uncontrolled movements                              | 5.3.5.4/5.3.5.5/5.3.5.6/5.3.5.7/<br>5.3.5.8/5.3.5.9/5.3.5.10/5.3.5.15/<br>5.3.5.16/5.3.5.18                                                                                             |                |
| 1.4.1 - General requirements                                         | 5.2.1.2/5.2.1.3/5.2.1.4.1/5.2.1.4.2/                                                                                                                                                    |                |

## EN ISO 6909:2026 (E)

| The relevant Essential Requirements of Directive 2006/42/EC | Clause(s)/subclause(s) of this EN                                                                                  | Remarks/Notes  |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------|
|                                                             | 5.2.1.5/5.2.1.6/5.2.1.7/5.2.1.8/5.2.2.2/<br>5.2.2.3/5.3.5.18/5.3.5.20/5.3.5.21/<br>5.3.6.5/Annex B/Annex C/Annex H |                |
| 1.4.2.1 - Fixed guards                                      | 5.2.1.2/5.2.2.2/5.2.2.3                                                                                            |                |
| 1.4.2.2 - Interlocking movable guards                       | 5.2.1.3/5.2.2.2/5.2.2.3                                                                                            |                |
| 1.4.2.3 - Adjustable guards restricting access              |                                                                                                                    | Not applicable |
| 1.4.3 - Special requirements for protective devices         | 5.2.1.4.1/5.2.1.4.3/5.2.1.5/5.2.1.6/                                                                               |                |
| 1.5.1 - Electricity supply                                  | 5.2.1.7/5.2.1.8/5.2.2.2/5.2.2.3/5.3.5.20                                                                           |                |
| 1.5.2 - Static electricity                                  | 5.3.5.21/5.3.6.5/Annex B/Annex C/Annex H                                                                           |                |
| 1.5.3 - Energy supply other than electricity                | 5.6.2                                                                                                              |                |
| 1.5.4 - Errors of fitting                                   | 5.3.4/5.6.2                                                                                                        |                |
| 1.5.5 - Extreme temperatures                                | 5.6.4                                                                                                              |                |
| 1.5.6 - Fire                                                | 5.6.11                                                                                                             |                |
| 1.5.7 - Explosion                                           |                                                                                                                    | Not applicable |
| 1.5.8 - Noise                                               | 5.1/5.6.1                                                                                                          |                |
| 1.5.9 - Vibrations                                          |                                                                                                                    | Not applicable |
| 1.5.10 - Radiation                                          | 5.2.1.4                                                                                                            |                |
| 1.5.11 - External radiation                                 | 5.3.4                                                                                                              |                |
| 1.5.12 - Laser radiation                                    | 5.2.1.5/5.2.1.7/5.6.7                                                                                              |                |
| 1.5.13 - Emissions of hazardous materials and substances    | 5.6.6/5.6.10.2                                                                                                     |                |
| 1.5.14 - Risk of being trapped in a machine                 | 5.2.2.3/5.5.7/5.5.8                                                                                                |                |
| 1.5.15 - Risk of slipping, tripping or falling              | 5.5.5/5.5.6/5.6.10.2                                                                                               |                |
| 1.5.16 - Lightning                                          |                                                                                                                    | Not applicable |
| 1.6.1 - Machinery maintenance                               | 5.4.1/5.4.2/5.6.10                                                                                                 |                |
| 1.6.2 - Access to operating positions and servicing points  | 5.5.6/5.6.10.2                                                                                                     |                |
| 1.6.3 - Isolation of energy sources                         | 5.6.9                                                                                                              |                |
| 1.6.4 - Operator intervention                               | 5.6.10                                                                                                             |                |
| 1.6.5 - Cleaning of internal parts                          |                                                                                                                    | Not applicable |

| <b>The relevant Essential Requirements of Directive 2006/42/EC</b> | <b>Clause(s)/subclause(s) of this EN</b> | <b>Remarks/Notes</b> |
|--------------------------------------------------------------------|------------------------------------------|----------------------|
| 1.7.1 - Information and warnings on the machinery                  | 7.1.2/Annex G                            |                      |
| 1.7.1.1 - Information and information devices                      | 7.1.2                                    |                      |
| 1.7.1.2 - Warning devices                                          |                                          | Not applicable       |
| 1.7.2 - Warning of residual risks                                  | 7.1.2.2 d)/Annex G                       |                      |
| 1.7.3 - Marking of machinery                                       | 7.1                                      |                      |
| 1.7.4 - Instructions                                               | 7.2/5.6.1/7.2.2/Annex E                  |                      |
| 1.7.4.1 - General principles for the drafting of instructions      | 7.2                                      |                      |
| 1.7.4.2 - Contents of the instructions                             | 5.6.1/7.2.2/Annex E                      |                      |
| 1.7.4.3 - Sales literature                                         | Annex E                                  |                      |

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**Table ZA.2 — Normative references from Clause 2 of this document and their corresponding European publications**

| <b>Column 1<br/>Reference in<br/>Clause 2.</b> | <b>Column 2<br/>International<br/>Standard Edition</b> | <b>Column 3<br/>Title</b>                                                                                                                                                                     | <b>Column 4<br/>Corresponding<br/>European Standard<br/>Edition</b> |
|------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| IEC 60204-1:2016+AMD1:2021                     | IEC 60204-1:2016+AMD1:2021                             | <i>Safety of machinery — Electrical equipment of machines — Part 1: General requirements</i>                                                                                                  | EN 60204-1:2016/A1:2025                                             |
| IEC 60529:1989                                 | IEC 60529:1989                                         | <i>Degrees of protection provided by enclosures (IP Code)</i>                                                                                                                                 | EN 60529:1991                                                       |
| IEC 60825-1:2014                               | IEC 60825-1:2014                                       | <i>Safety of laser products — Part 1: Equipment classification and requirements</i>                                                                                                           | EN 60825-1:2014                                                     |
| IEC 60947-5-1:2025                             | IEC 60947-5-1:2025                                     | <i>Low-voltage switchgear and controlgear - Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices</i>                                          | EN IEC 60947-5-1:2025                                               |
| IEC 61310-2:2007                               | IEC 61310-2:2007                                       | <i>Safety of machinery — Indication, marking and actuation — Part 2: Requirements for marking</i>                                                                                             | EN 61310-2:2008                                                     |
| IEC 61310-3:2007                               | IEC 61310-3:2007                                       | <i>Safety of machinery — Indication, marking and actuation — Part 3: Requirements for the location and operation of actuators</i>                                                             | EN 61310-3:2008                                                     |
| IEC 61496-1:2020                               | IEC 61496-1:2020                                       | <i>Safety of machinery — Electro-sensitive protective equipment — Part 1: General requirements and test</i>                                                                                   | EN IEC 61496-1:2020                                                 |
| IEC 61496-2:2020                               | IEC 61496-2:2020                                       | <i>Safety of machinery — Electro-sensitive protective equipment — Part 2: Particular requirements for equipment using active opto-electronic protective devices (AOPDs)</i>                   | EN IEC 61496-2:2020                                                 |
| IEC 61496-3:2018                               | IEC 61496-3:2018                                       | <i>Safety of machinery — Electro-sensitive protective equipment — Part 3: Particular requirements for Active Opto-electronic Protective Devices responsive to Diffuse Reflection (AOPDDR)</i> | EN IEC 61496-3:2019                                                 |
| IEC 61508-1:2010                               | IEC 61508-1:2010                                       | <i>Functional safety of electrical/electronic/programmable electronic safety-related systems — Part 1: General</i>                                                                            | EN 61508-1:2010                                                     |

| Column 1<br>Reference in<br>Clause 2. | Column 2<br>International<br>Standard Edition | Column 3<br>Title                                                                                                                                                                                    | Column 4<br>Corresponding<br>European Standard<br>Edition |
|---------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
|                                       |                                               | <i>requirements</i>                                                                                                                                                                                  |                                                           |
| IEC 61508-2:2010                      | IEC 61508-2:2010                              | <i>Functional safety of electrical/electronic/programmable electronic safety-related systems — Part 2: Requirements for electrical/electronic/programmable electronic safety-related systems</i>     | EN 61508-2:2010                                           |
| IEC 61508-3:2010                      | IEC 61508-3:2010                              | <i>Functional safety of electrical/electronic/programmable electronic safety-related systems — Part 3: Software requirements</i>                                                                     | EN 61508-3:2010                                           |
| IEC 61800-5-2:2016                    | IEC 61800-5-2:2016                            | <i>Adjustable speed electrical power drive systems — Part 5-2: Safety requirements — Functional</i>                                                                                                  | EN 61800-5-2:2017                                         |
| IEC 62061:2021                        | IEC 62061:2021                                | <i>Safety of machinery — Functional safety of safety-related control systems</i>                                                                                                                     | EN IEC 62061:2021                                         |
| ISO 3744:2010                         | ISO 3744:2010                                 | <i>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</i>     | EN ISO 3744:2010                                          |
| ISO 3746:2010                         | ISO 3746:2010                                 | <i>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</i> | EN ISO 3746:2010                                          |
| ISO 4413:2010                         | ISO 4413:2010                                 | <i>Hydraulic fluid power — General rules and safety requirements for systems and their components</i>                                                                                                | EN ISO 4413:2010                                          |
| ISO 4414:2010                         | ISO 4414:2010                                 | <i>Pneumatic fluid power — General rules and safety requirements for systems and their components</i>                                                                                                | EN ISO 4414:2010                                          |
| ISO 4871:1996                         | ISO 4871:1996                                 | <i>Acoustics — Declaration and verification of noise emission values of machinery and</i>                                                                                                            | EN ISO 4871:2009                                          |

## EN ISO 6909:2026 (E)

| Column 1<br>Reference in<br>Clause 2. | Column 2<br>International<br>Standard Edition | Column 3<br>Title                                                                                                                                                                                               | Column 4<br>Corresponding<br>European Standard<br>Edition |
|---------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
|                                       |                                               | <i>equipment</i>                                                                                                                                                                                                |                                                           |
| ISO 7010:2019                         | ISO 7010:2019                                 | <i>Graphical symbols - Safety colours and safety signs - Registered safety signs</i>                                                                                                                            | EN ISO 7010:2020                                          |
| ISO 11202:2010                        | ISO 11202:2010                                | <i>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</i> | EN ISO 11202:2010                                         |
| ISO 12100:2010                        | ISO 12100:2010                                | <i>Safety of machinery — General principles for design — Risk assessment and risk reduction</i>                                                                                                                 | EN ISO 12100:2010                                         |
| ISO 13732-1:2006                      | ISO 13732-1:2006                              | <i>Ergonomics of the thermal environment - Methods for the assessment of human responses to contact with surfaces - Part 1: Hot surfaces</i>                                                                    | EN ISO 13732-1:2008                                       |
| ISO 13849-1:2023                      | ISO 13849-1:2023                              | <i>Safety of machinery — Safety-related parts of control systems — Part 1: General principles for design</i>                                                                                                    | EN ISO 13849-1:2023                                       |
| ISO 13849-2:2012                      | ISO 13849-2:2012                              | <i>Safety of machinery — Safety-related parts of control systems — Part 2: Validation</i>                                                                                                                       | EN ISO 13849-2:2012                                       |
| ISO 13850:2015                        | ISO 13850:2015                                | <i>Safety of machinery — Emergency stop function — Principles for design</i>                                                                                                                                    | EN ISO 13850:2015                                         |
| ISO 13851:2019                        | ISO 13851:2019                                | <i>Safety of machinery — Two-hand control devices — Principles for design and selection</i>                                                                                                                     | EN ISO 13851:2019                                         |
| ISO 13855:2024                        | ISO 13855:2024                                | <i>Safety of machinery — Positioning of safeguards with respect to the approach of the human body</i>                                                                                                           | EN ISO 13855:2024                                         |
| ISO 13857:2019                        | ISO 13857:2019                                | <i>Safety of machinery — Safety distances to prevent hazard zones being reached by upper and lower limbs</i>                                                                                                    | EN ISO 13857:2019                                         |
| ISO 14118:2017                        | ISO 14118:2017                                | <i>Safety of machinery — Prevention of unexpected start-up</i>                                                                                                                                                  | EN ISO 14118:2018                                         |

| Column 1<br>Reference in<br>Clause 2. | Column 2<br>International<br>Standard Edition | Column 3<br>Title                                                                                                                      | Column 4<br>Corresponding<br>European Standard<br>Edition |
|---------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| ISO 14119:2024                        | ISO 14119:2024                                | <i>Safety of machinery — Interlocking devices associated with guards — Principles for design and selection</i>                         | EN ISO 14119:2025                                         |
| ISO 14120:2015                        | ISO 14120:2015                                | <i>Safety of machinery — Guards — General requirements for the design and construction of fixed and movable guards</i>                 | EN ISO 14120:2015                                         |
| ISO 14122-1:2016                      | ISO 14122-1:2016                              | <i>Safety of machinery — Permanent means of access to machinery — Part 1: Choice of fixed means and general requirements of access</i> | EN ISO 14122-1:2016                                       |
| ISO 14122-2:2016                      | ISO 14122-2:2016                              | <i>Safety of machinery — Permanent means of access to machinery — Part 2: Working platforms and walkways</i>                           | EN ISO 14122-2:2016                                       |
| ISO 14122-3:2016                      | ISO 14122-3:2016                              | <i>Safety of machinery — Permanent means of access to machinery — Part 3: Stairs, stepladders and guard-rails</i>                      | EN ISO 14122-3:2016                                       |
| ISO 14738:2002                        | ISO 14738:2002                                | <i>Safety of machinery — Anthropometric requirements for the design of workstations at machinery</i>                                   | EN ISO 14738:2008                                         |

The documents listed in the Column 1 of Table ZA.2, in whole or in part, are normatively referenced in this document, i.e. are indispensable for its application. The achievement of the presumption of conformity is subject to the application of the edition of Standards as listed in Column 4 or, if no European Standard Edition exists, the International Standard Edition given in Column 2 of Table ZA.2.

**WARNING 1** Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

**WARNING 2** Other Union legislation may be applicable to the product(s) falling within the scope of this standard.

## Annex ZB (informative)

### Relationship between this European Standard and the essential requirements of Regulation (EU) 2023/1230 aimed to be covered

This European Standard has been prepared under a Commission's standardization request C(2025)129 final Commission Implementing Decision of 20 January 2025 to the European Committee for Standardization and to the European Committee for Electrotechnical Standardization as regards machinery in support of Regulation (EU) 2023/1230 of the European Parliament and of the Council (M/605) to provide one voluntary means of conforming to essential requirements of Regulation (EU) 2023/1230 of the European Parliament and of the Council of 14 June 2023 on machinery (OJ L 165, 29.6.2023).

Once this standard is cited in the Official Journal of the European Union under that Regulation, compliance with the normative clauses of this standard given in Table ZB.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Regulation, and associated EFTA regulations.

**Table ZB.1— Correspondence between this European Standard and Annex III of Regulation (EU) 2023/1230**

| The relevant Essential Requirements of Regulation (EU) 2023/1230            | Clause(s)/subclause(s) of this EN                 | Remarks/Notes                                           |
|-----------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------------|
| Annex III - Part A Definitions                                              |                                                   |                                                         |
| 1.1.2 - Principles of safety integration                                    | 5.1<br>5.2.1.1<br>5.4.1<br>7.2.2 e) o)            | Partially covered (only 1.1.2 a) and c) are applicable) |
| 1.1.3 - Materials and products                                              | 5.6.6                                             |                                                         |
| 1.1.4 - Lighting                                                            | 5.6.3                                             |                                                         |
| 1.1.5 - Design of machinery or a related product to facilitate its handling | 5.6.3                                             |                                                         |
| 1.1.6 - Ergonomics                                                          | 5.6.3                                             | 1.1.6 g): not applicable                                |
| 1.1.7 – Operating positions                                                 |                                                   | Not applicable                                          |
| 1.1.8 – Seating                                                             |                                                   | Not applicable                                          |
| 1.1.9 Protection against corruption                                         |                                                   | Not covered                                             |
| 1.2.1 - Safety and reliability of control systems                           | 5.2.1.4.1/5.3.1/5.3.4/5.3.5/5.3.5.1<br>9/5.3.5.2/ | I) f) not covered<br>II) and III) not applicable        |
| 1.2.2 - Control devices                                                     | 5.3.5.4/5.3.5.11/5.3.5.12/5.3.5.13<br>/           |                                                         |
| 1.2.3 - Starting                                                            | 5.3.5.14/5.3.5.15/5.3.5.16/5.3.5.1                |                                                         |

| The relevant Essential Requirements of Regulation (EU) 2023/1230             | Clause(s)/subclause(s) of this EN                                        | Remarks/Notes            |
|------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------|
|                                                                              | /5.3.5.20/5.3.5.21/5.3.5.22/5.3.5.23/5.3.6.5/5.3.7                       |                          |
| 1.2.4.1 - Normal stop                                                        | 5.3.2/5.3.6.3/5.4.2/5.4.3/5.6.3                                          |                          |
| 1.2.4.2 - Operational stop                                                   | 5.3.5.2/5.3.5.23/5.3.6.1/5.3.6.2/                                        |                          |
| 1.2.4.3 - Emergency stop                                                     | 5.3.6.3/5.4.2/5.4.3/5.3.6                                                |                          |
| 1.2.4.4 - Assembly of machinery or related products                          |                                                                          | Not applicable           |
| 1.2.5 - Selection of control or operating modes                              | 5.3.5.18/5.3.5.22/5.4                                                    |                          |
| 1.2.6 - Failure of the power supply or communication network connection      | 5.3.3                                                                    |                          |
| 1.3.1 - Risk of loss of stability                                            | 5.5.1/5.5.2/5.5.3/5.5.4                                                  |                          |
| 1.3.2 - Risk of break-up during operation                                    | 5.6.4/5.6.8                                                              |                          |
| 1.3.3 - Risks due to falling or ejected objects                              | 5.2.2.1.2/5.5.4                                                          |                          |
| 1.3.4 - Risks due to surfaces, edges or angles                               |                                                                          | Not covered              |
| 1.3.5 - Risks related to a combined machinery or related product             |                                                                          | Not applicable           |
| 1.3.6 - Risks related to variations in operating conditions                  | 5.3.5.18                                                                 |                          |
| 1.3.7 - Risks related to moving parts                                        | 5.2.1.1/5.2.2.1.2/5.3.5.17.2/                                            | a) and b) not applicable |
| 1.3.8 - 1.3.8 - Choice of protection against risks arising from moving parts | 5.2.1.1/5.2.1.2/5.2.1.3/5.2.2.1.1/                                       |                          |
| 1.3.8.1 - Moving transmission parts                                          | 5.2.2.2/5.2.2.3/5.3.5.18/5.2.1.1/5.2.1.2/5.2.1.3/5.2.1.4.1/              |                          |
| 1.3.8.2 - Moving parts involved in the process                               | 5.2.2.1.1/5.2.2.1.2/5.2.2.2/5.2.2.3/                                     |                          |
| 1.3.9 - Risks of uncontrolled movements                                      | 5.3.5.18/5.3.5.20/5.3.5.21/Annex B                                       |                          |
| 1.4.1 - General requirements                                                 | 5.2.1.1/5.2.1.2/5.2.1.3/5.2.2.1.1/                                       |                          |
| 1.4.2.1 - Fixed guards                                                       | 5.2.2.2/5.2.2.3/5.3.5.18                                                 |                          |
| 1.4.2.2 - Interlocking movable guards                                        | 5.2.1.1/5.2.1.2/5.2.1.3/5.2.1.4.1/                                       |                          |
| 1.4.2.3 - Adjustable guards restricting access                               |                                                                          | Not applicable           |
| 1.4.3 - Special requirements for protective devices                          | 5.2.1.4.1/5.2.1.4.3/5.2.1.5/5.2.1.6/5.2.1.7/5.2.1.8/5.2.2.2/5.2.2.3/5.3. |                          |