

INTERNATIONAL STANDARD

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AMENDMENT 1
2009-06-01

Safety of machinery — Basic concepts, general principles for design —

Part 2: Technical principles

AMENDMENT 1

*Sécurité des machines — Notions fondamentales, principes généraux
de conception —*

Partie 2: Principes techniques

AMENDEMENT 1



Reference number
ISO 12100-2:2003/Amd.1:2009(E)

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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

Amendment 1 to ISO 12100-2:2003 was prepared by Technical Committee ISO/TC 199, *Safety of machinery*.

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Safety of machinery — Basic concepts, general principles for design —

Part 2: Technical principles

AMENDMENT 1

Conformant with ISO Guide 78 ¹⁾, this Amendment supports regional technical regulations for machinery safety according to the principles of UNECE Recommendation L ²⁾. It comprises minor technical changes to the existing International Standard, aimed at ensuring compliance of the current edition of ISO 12100-2 with the relevant Essential Requirements of New Approach Directive 2006/42/EC on machinery, which replaces New Approach Directive 98/37/EC and enters into force on 2009-12-29 without a transition period.

IMPORTANT — This Amendment does not specify any *technical* change not directly required as a consequence of the new European legislation.

Page 2, 4.2.1

Replace the references between parentheses in the third-from-last main dashed point with the following:

“(see ISO 13854 and ISO 13857)”

Page 3, 4.4

Replace the second dashed point under a) with

“— “intrinsically safe” electrical equipment (see IEC 60079-11);”

Page 11, 4.11.9

Insert a new dashed point above the Note:

“— prevents any operation of hazardous functions by voluntary or involuntary action on the machine’s sensors.”

(Replace the full stop in the preceding point with a semi-colon to signify continuance of the list.)

Page 12, 4.12.1

Update the reference to ISO 13849-1 in Note 1 by replacing it with “ISO 13849-1:2006, 6.2.4”.

1) ISO Guide 78:2008, *Safety of machinery — Rules for drafting and presentation of safety standards*

2) United Nations Economic Commission for Europe (UNECE), International Model for Technical Harmonization

Page 19, 5.3.1

Replace the fourth dashed point in the list with

“— be located at an adequate distance from the danger zone (see ISO 13855 and ISO 13857);”

Replace the last paragraph of the subclause with

“For openings in the guard, see ISO 13857.”

Page 20, 5.3.2.4

Replace the phrase “They shall”, beginning the second paragraph, with

“Manually adjustable guards shall”

Page 26, 6.4

Replace the second dashed point under b) with

“— written indications (e.g. authorized representative of the manufacturer, designation of the machinery, year of construction, intended use in potentially explosive atmospheres);”

Pages 27 and 28, 6.5.1

Replace the fourth dashed point under c) with the following:

“— data on noise and vibration generated by the machine, and on radiation, gases, vapours and dust emitted by it, with reference to the measuring methods (including measurement uncertainties) used;”

Insert a new dashed point between the first and second points under e):

“— specifications of the spare parts to be used, when these affect the health and safety of operating;”

Insert a new first dashed point under g):

“— operating method to be followed in the event of accident or breakdown;”

Pages 30 to 32, Bibliography

Replace the corresponding bibliographical references with the following ones:

[8] EN 61029 (all parts), *Safety of transportable motor-operated electric tools*

[9] IEC 60079-11, *Explosive atmospheres — Part 11: Equipment protection by intrinsic safety “i”*

....

[12] IEC 60745-1, *Hand-held electric motor-operated tools — Safety — Part 1: General requirements*

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[21] IEC 62061, *Safety of machinery — Functional safety of safety-related electrical, electronic and programmable electronic control systems*

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