
**Textile machinery — Safety
requirements —**

Part 4:

**Yarn processing, cordage and rope
manufacturing machinery**

AMENDMENT 1

Matériel pour l'industrie textile — Exigences de sécurité —

*Partie 4: Machines de transformation du fil et machines de production
de cordages et d'articles de corderie*

AMENDEMENT 1



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Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
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Foreword

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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 11111-4:2005 was prepared by Technical Committee ISO/TC 72, *Textile machinery and accessories*, Subcommittee SC 8, *Safety requirements for textile machinery*.

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Textile machinery — Safety requirements —

Part 4:

Yarn processing, cordage and rope manufacturing machinery

AMENDMENT 1

Page v, Introduction

Replace “ISO 14121” in the fifth paragraph with “ISO 14121-1”.

Page 1, Normative references

Add the following references:

ISO 9902-1:2001/Amd.1:2009, *Textile machinery — Noise test code — Part 1: Common requirements*

ISO 9902-4:2001/Amd.1:2009, *Textile machinery — Noise test code — Part 4: Yarn processing, cordage and rope manufacturing machinery*

ISO 11111-2:2005/Amd.1:2009, *Textile machinery — Safety requirements — Part 2: Spinning preparatory and spinning machines*

Replace the references to ISO 11111-1:2005 and ISO 13849-1:1999 with the following:

ISO 11111-1:2009, *Textile machinery — Safety requirements — Part 1: Common requirements*

ISO 13849-1:2006, *Safety of machinery — Safety-related parts of control systems — Part 1: General principles for design*

Replace the reference to ISO 13852:1996 with the following:

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

Add the following references:

ISO 14119:1998/Amd.1:2007, *Safety of machinery — Interlocking devices associated with guards — Principles for design and selection — Amendment 1: Design to minimize defeat possibilities*

IEC 62061:2005, *Safety of machinery — Functional safety of safety-related electrical, electronic and programmable electronic control systems*, corrected by IEC 62061:2005 Corr.1:2005

Delete the date “:2004” from the reference to EN 1760-3.

Clauses 1 to 7

Throughout the text, replace all the dated references to “ISO 11111-1:2005” with “ISO 11111-1:2009”.

Replace the dated reference to “ISO 11111-2:2005” with ISO 11111-2:2005 (as amended by ISO 11111-2:2005/Amd.1:2009).

Page 5, 5.3

Replace list item b) with the following:

- b) Access to crushing and shearing points between the automatic knotter or splicer unit, doffer unit and the fixed parts shall be prevented. When the units are mobile, this may be achieved by sensitive protective equipment (e.g. trip bars in accordance with EN 1760-2 or trip plates in accordance with EN 1760-3 on both sides extending over the whole height of the carriage).

Page 6, 5.5.1

Replace the second and third paragraphs of 5.5.1, following the subheading “General safety requirements”, with the following:

General safety requirements

The safety-related part of the control system for the interlocking system of guards shall present a performance level of at least PL = d in accordance with ISO 13849-1:2006 or a safety integrity level SIL = 2 in accordance with IEC 62061:2005.

The adoption of a lower level than performance level PL = d or a safety integrity level SIL = 2 shall be based on a risk assessment in accordance with ISO 13849-1:2006, Annex A or IEC 62061:2005, Annex A. See also ISO 11111-1:2009, 5.4.2.3.

Page 8, 5.5.2.2

Replace the reference to “ISO 14119:1998” in the fifth paragraph with “ISO 14119:1998/Amd.1:2007”.

Page 9, 5.5.3

In list items a) and c), replace “ISO 13852” with “ISO 13857”.

Page 9, 5.5.4

In list item b), replace “ISO 13852” with “ISO 13857”.

Pages 12 and 14, 5.6

In list items b) and c), replace “ISO 13852” with “ISO 13857”.

Page 15, Bibliography

Replace the reference to ISO 14121 with the following:

- [1] ISO 14121-1, *Safety of machinery — Risk assessment — Part 1: Principles*