
**Industrial sewing machines — Safety
requirements for sewing machines, units
and systems —**

AMENDMENT 1

*Machines à coudre industrielles — Exigences de sécurité pour
machines à coudre, unités et systèmes de couture —*

AMENDEMENT 1

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Amendment 1 to ISO 10821:2005 was prepared by Technical Committee ISO/TC 148, *Sewing machines*.

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AMENDMENT 1

Page 1, Normative references

Replace the reference to ISO 3747:— with the following:

ISO 3747:2000, *Acoustics — Determination of sound power levels of noise sources using sound pressure — Comparison method in situ*

Page 3, Normative references

Replace the references to ISO 13849-1:—, IEC 60204-1:— and IEC 60825-1:— with the following:

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

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

IEC 60825-1:2007, *Safety of laser products — Part 1: Equipment classification, requirements and user's guide*

Page 3, Terms and definitions

Replace the first sentence with the following:

For the purposes of this document, the terms and definitions given in ISO 3744, ISO 4915, ISO 4916, ISO 11204, ISO 12100-1 and ISO/IEC Guide 51 and the following apply.

Page 19, 5.2.2.13

Replace the existing text with the following:

Where, for industrial sewing machines, the significant hazards are mainly originated by stitch form elements the safety-related parts of control systems shall as a minimum comply with performance level b of ISO 13849-1:2006.

Other types of industrial sewing machines shall comply with performance level c of ISO 13849-1:2006.

Page 20, 5.2.4.2

Delete the text in parentheses in the first item of list a).

Pages 20 to 21, 5.2.4.2

Delete the text in both pairs of parentheses in the first item of list a).

Replace the third item of list a) with the following:

“— the sound power level L_{WA} , in decibels, of the machine where L_{pA} exceeds an A-weighted value of 80 dB, or”

Replace the text “(size of measurement ...)” in parentheses in the fourth item of list a) with the following:

“(largest dimension > 10 m)”

Delete the text in both pairs of parentheses in the first and fourth items of list b).

Replace the third item of list b) with the following:

“— L_{WA} , in decibels, where L_{pA} exceeds an A-weighted value of 80 dB, or”

Page 23, 5.3.4.1

Replace the sentence with the following:

Given the type of sewing process and the way in which the design forces the foot, thread wiper and sequin guide to be positioned, there is no need for the embroidery machines to have shields to prevent needle breaks (as defined in Annex D), protective fixtures for the lever to withdraw the needle thread or finger deflectors (as defined in Annex A).

Page 26, 7.2

Replace the first paragraph with the following.

Sewing units and systems shall be marked legibly and indelibly with the following minimum information:

- business name and full address of the manufacturer and, where applicable, the authorized representative;
- designation of the machinery;
- mandatory marking¹⁾;
- designation of series or type, if any;
- year of construction, that is the year in which the manufacturing process is completed;
- serial number, if any.

NOTE The text in footnote 1) is unchanged and is not reproduced in this amendment.

Page 27, 7.4.1

Add the following new list item j) at the end of the subclause:

- j) Specifications of the spare parts to be used if these impact on the health and safety of operators.

Page 47, C.9

In the second list item of the second paragraph, replace “85 dB” with “80 dB”.

Page 49, C.9.3

Replace the second paragraph with the following:

If the probability of acceptance is 95 %, L_C shall be defined as follows:

$$L_C \geq L^* + k_a \cdot \sigma_M$$

where

L^* is the measured value for the individual machine;

k_a is the acceptability constant;

σ_M is the reference standard deviation.

K is the declared value of K_{pA} (uncertainty of sound pressure) or K_{wA} (uncertainty of sound power). $K = k_a \cdot \sigma_M$, where $k_a = 1,194$ and $\sigma_M \approx 2,5$ dB apply to $L_C \geq L^* + 3$ dB.

Page 66, Annex I

In Example 1, replace “82 dB” with “79 dB”.

Replace Example 3 with the following.

EXAMPLE 3 Machines according to C.6.3 (CB)

- Equivalent continuous emission sound pressure level (L_{pA}) at the workstation:
A-weighted value of 78 dB; $K_{pA} = 2,5$ dB.

Page 67, Annex I

In Example 6, replace “82 dB” with “79 dB”.

In Example 7, replace “84 dB” with “79 dB” in the second list item.

In Example 8, replace “87 dB” with “79 dB” in the first list item and replace “84 dB” with “79 dB” in the second list item.

Page 68, Figure I.1

Replace all four occurrences of “85” with “80”.

In the column “with undefined workstation, machines of large size”, replace “ L_{pA} ” with “ $L_{pA, \max}$ ”.

In the last line of the columns “with defined workstation, machines of large size” and “with undefined workstation, machines of large size”, delete “ $L_{WA} = \dots$ ”.

Page 75, Bibliography

Delete the following Reference [3]:

[3] ISO/TR 11688-1, *Acoustics — Recommended practice for the design of low-noise machinery and equipment — Part 1: Planning*

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