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**Textile machinery — Safety  
requirements —**

Part 3:  
**Nonwoven machinery**

**AMENDMENT 2**

*Matériel pour l'industrie textile — Exigences de sécurité —*

*Partie 3: Machines de production de nontissés*

*AMENDEMENT 2*



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The committee responsible for this document is ISO/TC 72, *Textile machinery and accessories*, Subcommittee SC 8, *Safety requirements for textile machinery*.

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# Textile machinery — Safety requirements —

## Part 3: Nonwoven machinery

### AMENDMENT 2

#### *Page v, Introduction*

Replace “ISO 12100-1” in the 3rd paragraph with “ISO 12100”.

Replace “ISO 14121-1” in the 5th paragraph with “ISO 12100”.

#### *Page 1, Scope*

Add the following sentence as the second paragraph:

This part of ISO 11111 is complemented by the type C standards ISO 9902-series with respect to noise emission measurement and ISO 23771 with respect to measures for the reduction of noise emissions.

#### *Pages 1 to 4, Clauses 1 to 7*

Throughout the text, replace all the dated references “ISO 11111-1:2005” with “ISO 11111-1:2016”.

Replace all the dated references to “ISO 11111-2:2005” with “ISO 11111-2:2005 (as amended by ISO 11111-2:2005/Amd.1:2009 and ISO 11111-2:2005/Amd.2:2016)”.

Replace all the dated references to “ISO 11111-6:2005” with “ISO 11111-6:2005 (as amended by ISO 11111-6:2005/Amd.1:2009 and ISO 11111-6:2005/Amd.2:2016)”.

Replace all the dated references to “ISO 11111-7:2005” with “ISO 11111-7:2005 (as amended by ISO 11111-7:2005/Amd.1:2009 and ISO 11111-7:2005/Amd.2:2016)”.

#### *Page 1, Clause 2 Normative references*

Add ISO 23771 as follows:

ISO 23771, *Textile machinery — Design measures for reduction of the noise emissions from textile machinery*

#### *Page 4*

Add a new clause “5.5 Spunlace machines” after 5.4 as follows:

#### **5.5 Spunlace machines**

Spunlaced machines process a web by means of a high-pressure water jet flow to tangle the fibres.

#### **General safety requirements**

The safety requirements and/or measures shall be in accordance with [Table 2](#).

**Table 2 — General safety requirements relating to spunlace machines**

Application	Reference ISO 11111-1:2016
<b>All machines:</b>	
Electrical equipment in general	5.4.2.1 and 5.4.2.2
Electrical control system	5.4.2.3
Starting and stopping	5.4.2.4
Reduction of risks by design	5.3.2
Reduction of risks by safeguarding device	5.3.3
— with guards	Table 2
— with safety devices	Table 3
Mechanical hazards	5.4.3
Fluid system and elements	5.4.5
Noise	5.4.7, 7, 8.2
Ergonomics	5.4.13
Devices for special operation	5.5
Elevated operating positions and servicing positions	5.6
Fitting of parts	5.8
<b>Particular machine elements:</b>	
Drive and transmission enclosures	6.2
Rollers	6.5
Rotating shafts	6.6
Running wheels	6.7.1
Doors and lids	6.8
Observation window	6.9
Conveyors	6.10
Fans	6.11
Working platforms and walkways on machines, work areas adjacent to tanks and pits	6.13
Automatic machines and equipment	6.21

**Specific hazards**

Mechanical danger from the water jets, the jet strips, the compression web, the bottom web, the conveyor web and the drive roller, especially the danger of squeezing, cutting, winding or plunging, or puncture.

**Specific risks**

Occasional access during normal operation, particularly entering wet ground, cleaning or removal of fibres while the machine is at rest, leading to a low probability of medium injury.

Occasional access during special operation, in particular threading up, leading to a medium probability of severe injury.

**Specific safety requirements**

To prevent access to the danger zones, fixed enclosing guards shall be provided (e.g. a casing for the entire machine). Where necessary, the casing shall be designed as movable guards, to allow access at standstill (e.g. one or several doors or a roll-up door with interlocking device and guard locking at operating side).