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Textile machinery — Sliver cans, rectangular — Main dimensions and tolerances

Matériel pour l'industrie textile — Pots pour rubans, rectangulaires — Dimensions principales et tolérances

[Revision of first edition (ISO 16853:2003)]

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Contents

Page

Foreword.....	iv
1 Scope	1
2 Symbols, specifications.....	1
3 Main dimensions.....	1
4 Designation	3

Figures

Figure 1 — Sliver can, rectangular – main dimensions.....	2
---	---

Tables

Table 1 — Main dimensions of rectangular sliver cans.....	3
---	---

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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.

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ISO 16853 was prepared by Technical Committee ISO/TC 72, *Textile machinery and allied machinery and accessories*, Subcommittee SC 1, *Spinning preparatory, spinning, twisting and winding machinery*.

This second edition cancels and replaces the first edition (ISO 16853:2003), which has been technically revised.

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Textile machinery — Sliver cans, rectangular — Main dimensions and tolerances

1 Scope

This International Standard specifies the main dimensions, with tolerances, of rectangular sliver cans used in the textile industry. It also gives information about the right-angle position of cans according to ISO 1101.

2 Symbols, specifications

These shall be as follows:

b_1 outer width of the can

b_2 inner width of the can

h_1 outer height of the can

l_1 outer length of the can

l_1 up to 920 mm

$l_2 = l_1 - 20$ mm

l_1 greater than 920 mm

$b_2 = b_1 - 20$ mm

$l_2 = l_1 - 30$ mm

$b_2 = b_1 - 30$ mm

l_2 inner length of the can

NOTE The stability of the can requires a greater top rim of can for greater dimensions of sliver cans. It is known that this inevitably results in smaller inner dimensions.

3 Main dimensions

These shall be in accordance with Table 1 and Figure 1.

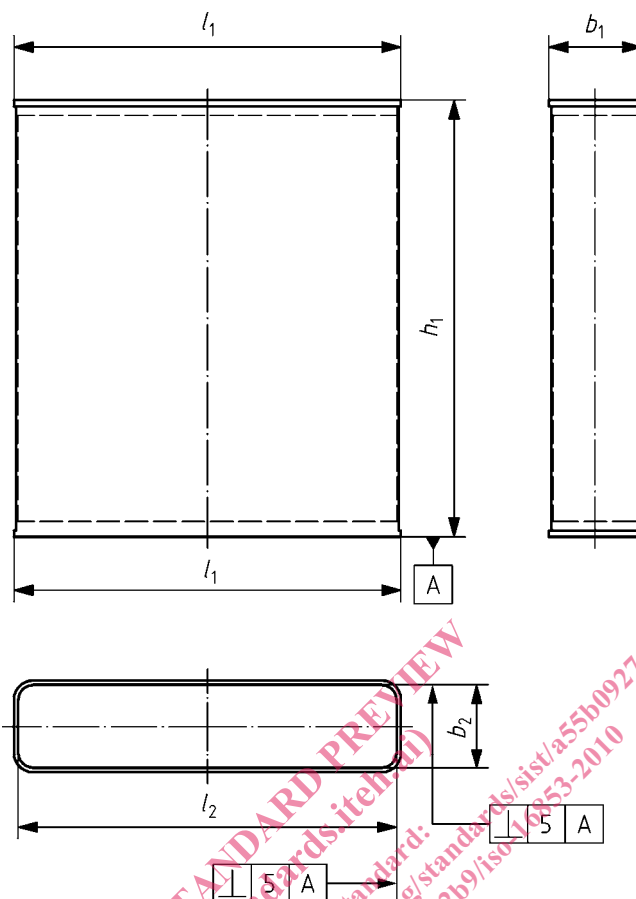


Figure 1 — Sliver can, rectangular — main dimensions

Table 1 — Main dimensions of rectangular sliver cans

Dimensions and tolerances in millimetres

l_1^a	l_2	b_1	b_2	h_1^c
± 3		0 – 5		± 5
920	900	215	195	1 040 1 070 1 100 1 200
		220 ^b	200 ^b	1 040 1 070 1 100 1 200
		235 ^b	215 ^b	1 040 1 070 1 100 1 200
		250 ^b	230 ^b	1 040 1 070 1 100 1 200
<p>^a Outer length l_1 greater than 920 mm shall be in increments of 100 mm</p> <p>^b Preferred dimensions.</p> <p>^c Heights h_1 greater than 1 200 mm shall be in increments of 100 mm</p>				

4 Designation

The designation for ordering a rectangular sliver can shall include the following information:

- reference to this International Standard, i.e. "ISO 16853";
- inner length, l_2 ;
- inner width, b_2 ;
- outer height, h_1 .

EXAMPLE Rectangular sliver can corresponding to Figure 1 and Table 1, with an inner length $l_2 = 900$ mm and inner width of $b_2 = 215$ mm and with an outer height $h_1 = 1 070$ mm:

Rectangular sliver can ISO 16853 – 900 x 215 x 1 070