INTERNATIONAL STANDARD

Second edition 1999-05-01

Textile machinery and accessories — Cylindrical sliver cans —

Part 2: Spring bottoms

iTeh Shatériel pour l'industrie textile Pots cylindriques pour rubans — Partie 2: Fonds à ressort (standards.iteh.ai)

<u>ISO 93-2:1999</u> https://standards.iteh.ai/catalog/standards/sist/27142f16-d340-4f52-92d0-82a27661eefb/iso-93-2-1999



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 3.

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.

International Standard ISO 93-2 was prepared by Technical Committee ISO/TC 72, *Textile machinery and machinery for dry-cleaning and industrial laundering*, Subcommittee SC 1, *Spinning preparatory, spinning, twisting and winding machinery and accessories*.

This second edition cancels and replaces the first edition (ISO 93-2:1978), which has been technically revised.

ISO 93 consists of the following parts under the general title *Textile machinery and accessories* — *Cylindrical sliver cans*:

— Part 1: Main dimensions

(standards.iteh.ai)

— Part 2: Spring bottoms

<u>ISO 93-2:1999</u> https://standards.iteh.ai/catalog/standards/sist/27142f16-d340-4f52-92d0-82a27661eefb/iso-93-2-1999

© ISO 1999

International Organization for Standardization Case postale 56 • CH-1211 Genève 20 • Switzerland Internet iso@iso.ch

Printed in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Textile machinery and accessories — Cylindrical sliver cans —

Part 2: Spring bottoms

1 Scope

This part of ISO 93 specifies the principal features of spring bottoms, with and without pre-tension, used in cylindrical sliver cans specified in ISO 93-1.

(standards.iteh.ai)

2 Normative reference

<u>ISO 93-2:1999</u>

The following normative document contains provisions which, through reference in this text, constitute provisions of this part of ISO 93. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 93 are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 93-1:1998, Textile machinery and accessories — Cylindrical sliver cans — Part 1: Main dimensions.

3 Symbols

- d inside diameter of sliver can
- d_4 outside diameter of spring plate
- h height of sliver can
- h_2 distance from top rim of can to surface of spring plate
- h₃ depth of spring plate
- F_n force of spring
- $F_{\rm v}$ force of spring in top working position
- L₀ length of unloaded spring
- L_v length of spring in top working position (i.e. when constrained)

4 Principal features

4.1 Spring bottoms for cylindrical cans without castors

See Figures 1 and 2, and Table 1.

 $F_{\rm v}$ as well as tolerances of parallelism of the spring plate shall be agreed between the producer, machine manufacturer and customer.

Dimensions in millimetres



a $5 \le h_2 \le 70$



Dimensions in millimetres



a $h_2 = 20$

Figure 2 — Spring bottom with pre-tension, type B

Dimensions in millimetres

Size of can ^a		Characteristics of spring		Spring plate			
		Туре А	Туре В				
$d \pm 3$	h	$L_{0} \pm 30$	$L_{0} \pm 30$	d_4	h ₃		
300				285	50		
350				335	50		
400				385	50		
450	900	840	940	435	50		
500				485	55		
600				585	60		
700				682	70		
300				285	50		
350				335	50		
400				385	50		
450	1 000	940	1 040	435	50		
500				485	55		
600	CAL ST		ומס מ		60		
700		ANDAR	U P KI	682	70		
400	(sta	andard	s.iteh.a	385	50		
450				435	50		
500	1 100	1 <u>104093-2</u>	<u>:199</u> 140	485	55		
600tps://s	tandards.iteh.ai	catalog/standar	ls/sist/27142f16	-d34 685 52-92	. <mark>d0-</mark> 60		
700	8	2a2/661eetb/is	0-93-2-1999	682	70		
450				435	50		
500				485	55		
600	1 200 ^C	1 140	1 240	585	60		
700 ^b				682	70		
 a See ISO 93-1. b Diameters greater than 700 mm shall be in increments of 100 mm. c Heights greater than 1 200 mm shall be in increments of 100 mm. 							

Table 1 — Principal features of spring bottoms — Types A and B

4.2 Spring bottoms for cylindrical cans with castors

See Figures 3 and 4, and Table 2.

 $F_{\rm v}$ as well as tolerances of parallelism of the spring plate shall be agreed between the producer, machine manufacturer and customer.

Dimensions in millimetres



a $5 \le h_2 \le 70$



https://standards.iteh.ai/catalog/standards/sist/27142f16-d340-4f52-92d0-82a27661eefb/iso-93-2-1999

Dimensions in millimetres



a $h_2 = 20$



Size of can ^a		Characteristics of spring		Spring plate			
$d \pm 3$	h	Туре С <i>L</i> ₀ ± 30	Туре D <i>L</i> ₀ ± 30	d_4	h ₃		
400	900	770	870	385	50		
600				585	60		
400	1			385	50		
450				435	50		
500				485	55		
600	1 000	870	970	585	60		
700				682	70		
800				780	85		
900				880	100		
450				435	50		
500	ļ			485	55		
600		!		585	60		
700		970	1070	682	70		
800 📕	en SIA	ANDAr	KD PKI	V 780 VV	85		
900	(sta	andard	s.iteh.a	880	100		
1 000	V			980	100		
450	ľ	<u>ISO 93-2</u>	:1999	435	50		
500tps://s	tandards.iteh.ai/	-d34 485 52-92	d0- 55				
600	8	2a27661eefb/is	0-93-2-1999	585	60		
700	1 200 5	1 070	1 170	682	70		
800				780	85		
900				880	100		
1 000 ^b				980	100		
 a See ISO 93-1. b Diameters greater than 1 000 mm shall be in increments of 200 mm. c Heights greater than 1 200 mm shall be in increments of 100 mm. 							

Table 2 — Principal features of spring bottoms — Types C and D Dimensions in millimetres

5 Order specification

The designation used for ordering a spring bottom for a cylindrical sliver can shall include the following particulars:

a) type;

- b) characteristics of the spring; i.e. L_0 and F_n ;
- c) dimensions of the spring plate, i.e. d_4 and h_3 ;

EXAMPLE

Spring bottom for cylindrical sliver can, type D, length of unloaded spring $L_0 = 1170$ mm, force of spring $F_n = 34$ daN, outside diameter of spring plate $d_4 = 780$ mm, depth of spring plate $h_3 = 85$ mm:

Spring bottom ISO 93-2 D 1 170 \times 34 – 780/85

iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>ISO 93-2:1999</u> https://standards.iteh.ai/catalog/standards/sist/27142f16-d340-4f52-92d0-82a27661eefb/iso-93-2-1999 © ISO

ICS 59.120.10

=

Price based on 5 pages