INTERNATIONAL STANDARD

ISO 93-1

Fourth edition
2006-04-01

Textile machinery and accessories — Cylindrical sliver cans —

Part 1: Main dimensions

Matériel pour l'industrie textile — Pots cylindriques pour rubans —

Partie 1: Dimensions principales

Reference number
ISO 93-1:2006(E)

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Foreword

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ISO 93-1 was prepared by Technical Committee ISO/TC 72, *Textile machinery and accessories*, Subcommittee SC 1, *Spinning preparatory, spinning, twisting and winding machinery and accessories*.

This fourth edition cancels and replaces the third edition (ISO 93-1:1998), 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*

— *Part 2: Spring bottoms*

Textile machinery and accessories — Cylindrical sliver cans —

Part 1: Main dimensions

1 Scope

This part of ISO 93 specifies the main dimensions of cylindrical sliver cans used in the textile industry.

2 Sliver cans without castors

2.1 Symbols, specifications

These shall be as follows:

d inside diameter

d_1 outside diameter at base

$d_1 = d + 15$ mm

d_2 diameter of recess

$d_2 = d - 15$ mm

d_5 outside diameter from the top rim of can

d_5 up to 700 mm: $d_5 = d + 30$ mm, maximum

d_5 up to 1 200 mm: $d_5 = d + 40$ mm, maximum

d_5 greater than 1 200 mm: $d_5 = d + 50$ mm, maximum

NOTE The stability of the can requires a greater top rim of can for greater diameters of sliver cans.

h overall height

h_1 height of recess

See Figures 1 and 2.

Dimensions and tolerances in millimetres

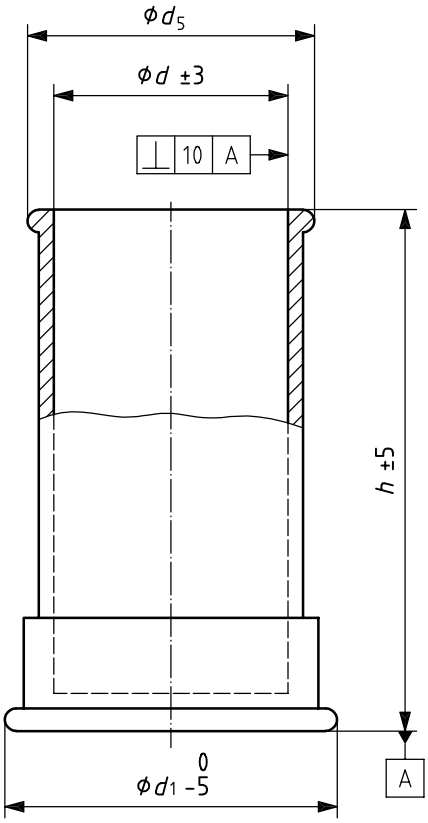
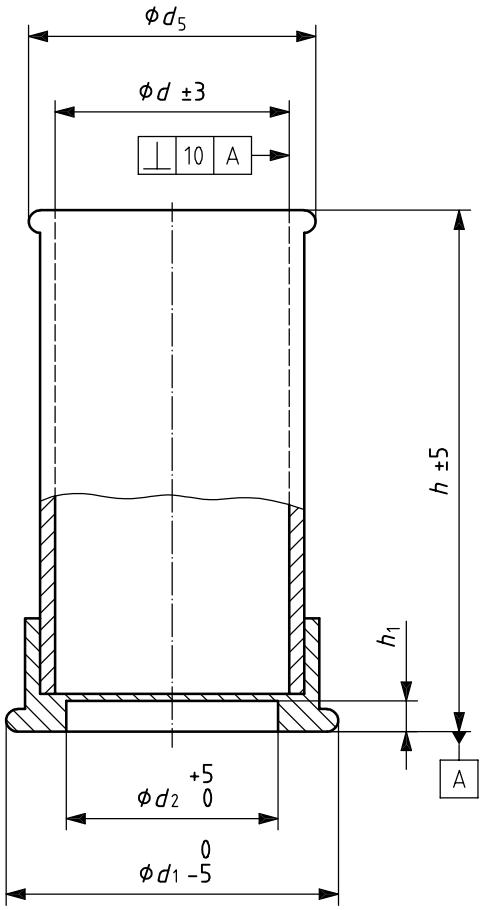


Figure 1 — Flat base can

Dimensions and tolerances in millimetres



$h_1 = 20^{+5}_{0}$

Figure 2 — Inverted base can

2.2 Main dimensions

These shall be in accordance with Table 1.

Table 1 — Dimensions and tolerances of sliver cans without castors

Dimensions in millimetres

$d \pm 3$	h
300 350 400 450 500 600 700	900
300 350 400 450 500 600 700	1 000
400 450 500 600 700	1 100
450 500 600 700 [a]	1 200 [b]

[a] Inside diameters d greater than 700 mm shall be in increments of 100 mm.

[b] Heights h greater than 1 200 mm shall be in increments of 100 mm.

3 Sliver cans with castors

3.1 Symbols, specifications

These shall be as follows:

d inside diameter

d_1 outside diameter at base

$d_1 = d + 15$ mm

d_2 diameter of recess

$d_2 = d - 15$ mm

d_5 outside diameter from the top rim of can

d_5 up to 700 mm: $d_5 = d + 30$ mm, maximum

d_5 up to 1 200 mm: $d_5 = d + 40$ mm, maximum

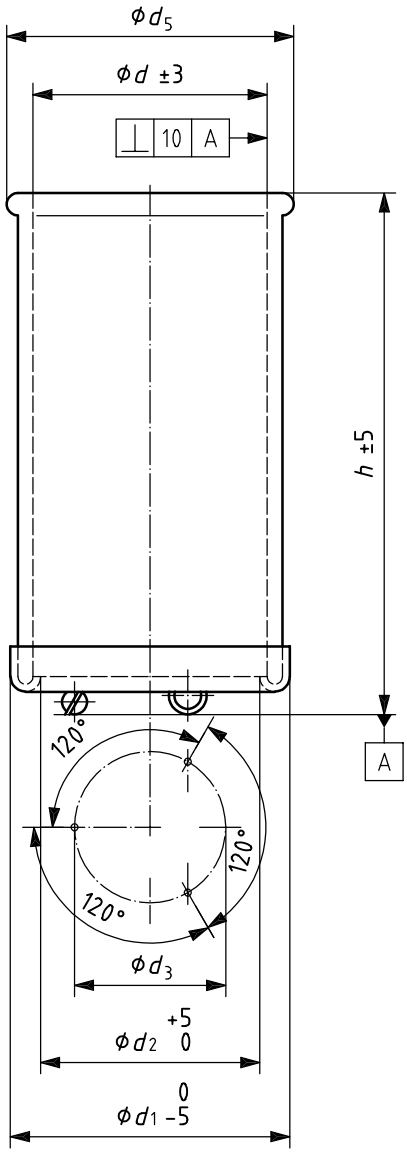
d_5 greater than 1 200 mm: $d_5 = d + 50$ mm, maximum

NOTE The stability of the can requires a greater top rim of can for greater diameters of sliver cans.

h overall height with castors

See Figure 3.

Dimensions and tolerances in millimetres



This drawing shows a can with three castors, but cans may be fitted with four castors, particularly for inside diameters above 700 mm.

See Table 2.

Figure 3 — Sliver can with castors

3.2 Main dimensions

These shall be in accordance with Table 2.

Table 2 — Dimensions and tolerances of sliver cans with castors

Dimensions in millimetres

$d \pm 3$	h	d_3
400	900	280
450		330
500		380
600		480
400	1 000	280
450		330
500		380
600		480
700		540
800		640
900		740
450	1 100	330
500		380
600		480
700		540
800		640
900		740
1000		840
450	1 200 [b]	330
500		380
600		480
700		540
800		640
900		740
1 000 [a]		840

[a] Inside diameters d greater than 1 000 mm shall be in increments of 200 mm.

[b] Heights h greater than of 1 200 mm shall be in increments of 100 mm.

4 Designation

The designation used for ordering a cylindrical sliver car shall include the following information:

a) type (with or without castors);

b) reference to this part of ISO 93, i.e. “ISO 93-1”;

c) number of castors (R), if applicable;

d) inside diameter, d;

e) overall height, h;

EXAMPLE 1 Sliver can without castors with inside diameter $d = 600$ mm and overall height $h = 1200$ mm:

Can without castors ISO 93-1 - 600 × 1200

EXAMPLE 2 Sliver can with three castors with inside diameter $d = 600$ mm and overall height $h = 1200$ mm:

Can with castors ISO 93-1–3R - 600 × 1200

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