
INTERNATIONAL STANDARD



98

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Textile machinery and accessories — Spinning preparatory and spinning machinery — Covering characteristics of top rollers

Matériel pour l'industrie textile — Machines de préparation de filature et de filature — Caractéristiques des garnitures des cylindres supérieurs

(standards.iteh.ai)

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UDC 677.051.1

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Descriptors : textile machinery, spinning frames, cylinders, specifications, designation, dimensions.

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 98, which results from the combination of ISO 98/1975 and ISO/DIS 5236 into a single document, was developed by Technical Committee ISO/TC 72, *Textile machinery and accessories*. (standards.iteh.ai)

Draft International Standard ISO/DIS 5236 was circulated to the member bodies in November 1975. It has been approved by the member bodies of the following countries :

Belgium	Italy	Switzerland
Brazil	Mexico	Turkey
Czechoslovakia	Poland	United Kingdom
France	Romania	U.S.S.R.
Germany	South Africa, Rep. of	Yugoslavia
India	Spain	

No member body expressed disapproval of the document.

This second edition cancels and replaces the first edition (i.e. ISO 98-1975), which had been approved by the member bodies of the following countries :

Belgium	Netherlands	United Kingdom
France	Poland	U.S.S.R.
Germany	Romania	Yugoslavia
India	Switzerland	
Mexico	Turkey	

No Member Body had expressed disapproval of the document.

Textile machinery and accessories – Spinning preparatory and spinning machinery – Covering characteristics of top rollers

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the main dimensions of top rollers, ready for use, i.e. with synthetic coverings. It is applicable to spinning preparatory and spinning machinery.

2 REFERENCE

ISO 5233, *Textile machinery and accessories – Bottom fluted rollers for drafting systems*.¹⁾

3 DIMENSIONS

3.1 Single boss top rollers

Single boss top rollers are used for spinning preparatory machinery, for example drawframes and combers.

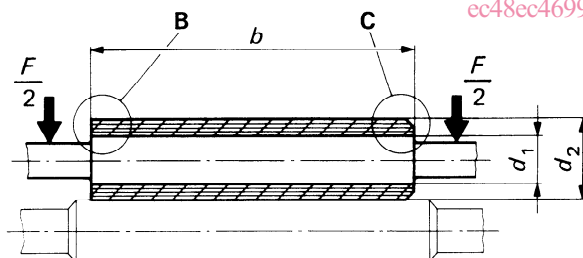


FIGURE 1 – Diameters and covering widths for single boss top rollers

d_1 = bare roller diameter

d_2 = diameter with covering (finished ground)

b = width of covering

F = saddle force in decanewtons²⁾

B = covering without bevelled sides

C = covering with bevelled sides

TABLE 1
Bare roller
diameters

d_1 mm
(16)
(18)
19
22
25
28
30
35
40
45
50
55
60
65
70
75
80
over 80, step = 10

TABLE 2
Diameters
with covering
(finished ground)

d_2 mm
25
28
32
35
38
40
45
50
55
60
65
70
75
80
85
90
over 90, step = 5

TABLE 3
Widths of
covering

b mm
80
90
100
110
125
140
160
180
200
220
250
280
315
355
400
450

NOTE – Do not use the values in brackets for new designs.

1) At present at the stage of draft.

2) 1 daN \approx 1,02 kgf

3.2 Twin boss top rollers

Twin boss top rollers are used for spinning frames and roving frames.

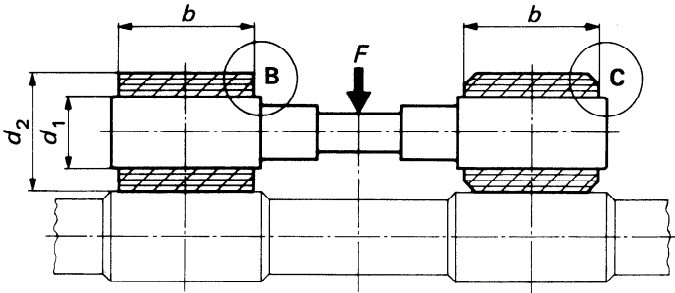


FIGURE 2 – Diameters and covering widths for twin boss top rollers

- d_1 = bare roller diameter
- d_2 = diameter with covering (finished ground)
- b = width of covering
- F = saddle force in decanewtons¹⁾
- B = coverings without bevelled sides
- C = covering with bevelled sides

TABLE 4
Bare roller diameters

d_1 mm
(16)
(18)
19
(20)
22
25
28
30
(32)
(34)
35
(36)
(38)
40
45
50
55
60
over 60, step = 10

TABLE 5
Diameters with covering (finished ground)

d_2 mm
(25)
(27)
28
(29)
30
32
35
40
45
50
55
60
65
70
75
80
over 80, step = 5

TABLE 6
Widths of covering

b mm
25
28
30
32
(34)
35
40
45
50
55
60
over 60, step = 10

4 DESIGNATION OF ORDER FOR COVERINGS

NOTE – Do not use the values in brackets for new designs.

$d_1 \times d_2 \times b$ – Shore A hardness – Execution²⁾ – F – ISO 98:1977
 ISO 98 <https://standards.iteh.ai/catalog/standards/sist/f1502c0-3ee8-4562-b0c8-ec48ec4699e3/iso-98-1977>

Example of ordering

28 x 40 x 160 – A/80 – B – 40 – ISO 98

1) 1 daN \approx 1,02 kgf

2) Without any specification from the buyer, the manufacturer can supply equally either of the two executions, B or C.