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**Textile machinery and accessories —  
Spinning preparatory and spinning  
machinery — Main dimensions of coverings  
for top rollers**

*Matériel pour l'industrie textile — Matériel de préparation de filature et de  
filature — Dimensions principales des garnitures pour cylindres supérieurs*

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## Foreword

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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.

Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 98 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 third edition cancels and replaces the second edition (ISO 98:1977), which has been technically revised.

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# Textile machinery and accessories — Spinning preparatory and spinning machinery — Main dimensions of coverings for top rollers

## 1 Scope

This International Standard specifies the main dimensions of coverings for ready-for-use top rollers (synthetic coverings). It is applicable to spinning preparatory and spinning machinery.

## 2 Symbols

- $d_1$  bare roller diameter
- $d_2$  diameter with covering (finished ground)
- $b$  width of covering
- $F$  saddle force
- B type of execution of covering with rectangular sides (see Figure 1 and Figure 2)
- C type of execution of covering with beveled sides (see Figure 1 and Figure 2)
- D type of execution of covering with rounded sides (see Figure 1 and Figure 2)

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### 3 Dimensions

#### 3.1 Single-boss top rollers

The main dimensions of coverings for single-boss top rollers used for spinning preparatory machinery (e.g. draw-frames and comber), are given in Figure 1 and Tables 1, 2 and 3 (see Figure 2 for twin-boss top rollers). In the case of single-boss top rollers with removable bushings execution is similar to that shown in Figure 3.

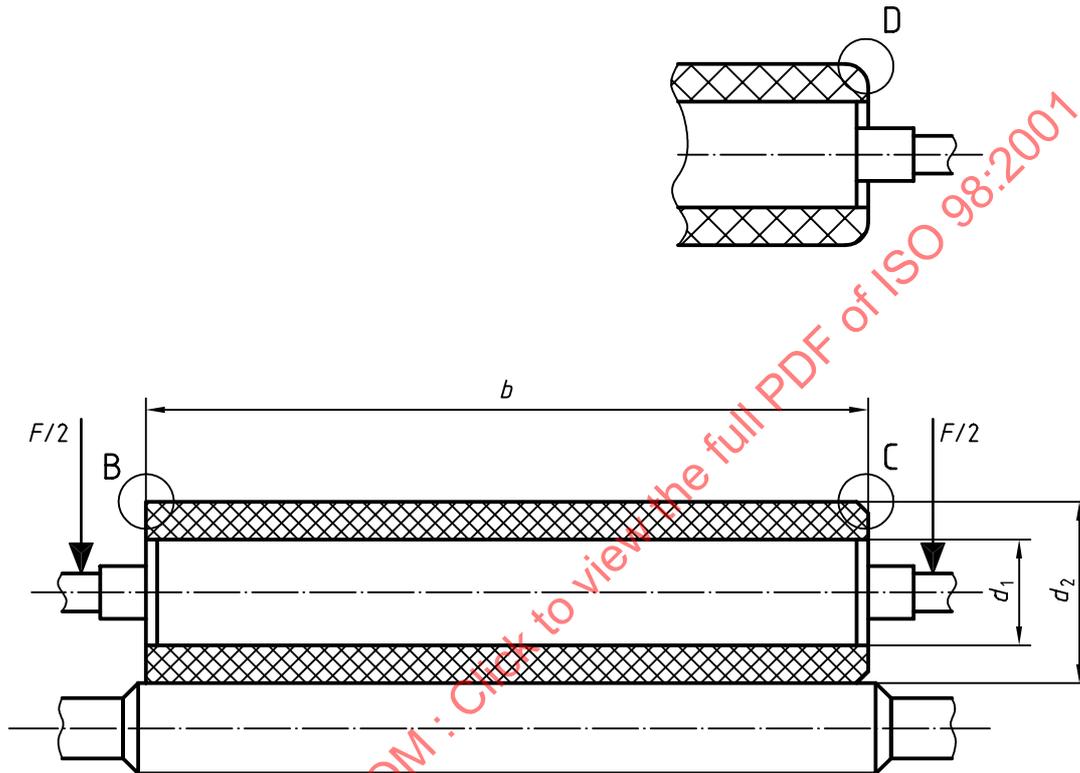


Figure 1 — Diameters and covering widths for single-boss top rollers

Table 1 — Bare roller diameter

Dimensions in millimetres

$d_1$	16	18	19	23	26	28	30	35	40	45	50	55	60	65	70	75	80
NOTE For $d_1 > 80$ , in increments of 10.																	

Table 2 — Roller diameter with covering (finished ground)

Dimensions in millimetres

$d_2$	25	28	32	34	36	40	45	50	55	60	65	70	75	80	85	90
NOTE For $d_2 > 90$ , in increments of 10.																

Table 3 — Width of covering

Dimensions in millimetres

$b$	80	90	100	110	125	140	160	180	200	220	250	280	315	355	400	450
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### 3.2 Twin-boss top rollers

The main dimensions of coverings for twin-boss top rollers used for spinning and roving frames are given in Figure 2 and Tables 4, 5 and 6. In the case of twin-boss top rollers with removable bushings, execution is similar to that shown in Figure 3.

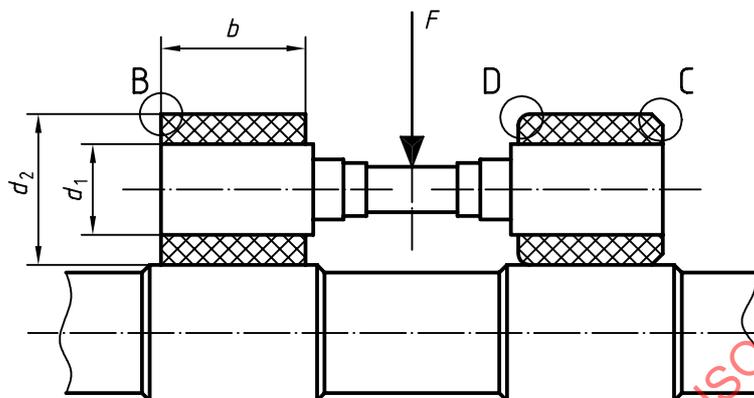


Figure 2 — Diameters and covering widths for twin-boss top rollers

Table 4 — Bare roller diameter

Dimensions in millimetres

$d_1$	19	23	25	28	30	35	40	45	50	55	60
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NOTE For  $d_1 > 60$ , in increments of 10.

Table 5 — Roller diameter with covering (finished ground)

Dimensions in millimetres

$d_2$	25	28	30	32	35	40	45	50	55	60	65	70	75	80
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NOTE For  $d_2 > 80$ , in increments of 5.

Table 6 — Width of covering

Dimensions in millimetres

$b$	25	28	30	32	34	35	40	45	50	55	60
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NOTE For  $b > 60$ , in increments of 10.

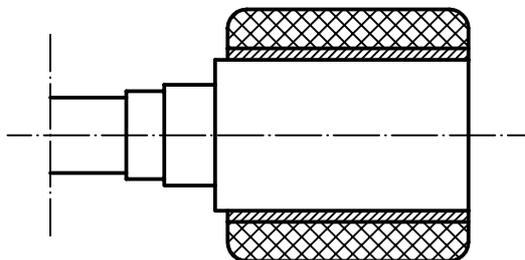


Figure 3 — Covering fixed to a removable bushing

#### 4 Designation of coverings

The designation shall include a reference to this International Standard, followed by the dimensions  $d_1$ ,  $d_2$  and  $b$  expressed in millimetres, the Shore A hardness, the type of execution and the saddle force  $F$  expressed in decanewtons.

If no specification is given by the buyer, the manufacturer may supply any of the three executions, B, C or D.

EXAMPLE A covering in accordance with ISO 98 of dimensions  $d_1 = 28$  mm,  $d_2 = 40$  mm and  $b = 160$  mm, a Shore A hardness of 80, of execution type B and a force  $F = 40$  decanewtons is designated as follows:

**ISO 98-28 x 40 x 160-80-B-40**

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