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**Textile machinery — Weaving machine  
temples —**

**Part 1:  
Temple cylinders**

*Machines à tisser — Templets pour métiers et machines à tisser —  
Partie 1: Cylindres de templets*

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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 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.

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

ISO 8118-1 was prepared by Technical Committee ISO/TC 72, *Textile machinery and machinery for dry-cleaning and industrial laundering*, Subcommittee SC 3, *Machinery for fabric manufacturing including preparatory machinery and accessories*.

This first edition of ISO 8118-1, together with ISO 8118-2, cancels and replaces ISO 8118:1986, of which it constitutes a technical revision.

ISO 8118 consists of the following parts, under the general title *Textile machinery — Weaving machine temples*:

- *Part 1: Temple cylinders*
- *Part 2: Full-width temples*



# Textile machinery — Weaving machine temples —

## Part 1: Temple cylinders

### 1 Scope

This part of ISO 8118 defines the basic terms and gives the nomenclature, technical specifications and designation for weaving machine temple cylinders used in the textile industry.

### 2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

#### 2.1

##### **temple cylinder**

device used in weaving to pull the cloth to the width of the warp in the reed and which is positioned as near as possible to the fell of the cloth

See Figure 1.

#### 2.2

##### **ring**

revolving element of the temple cylinder which works independently of, or in addition to, other parts of the temple cylinder

See Figure 1.

#### 2.3

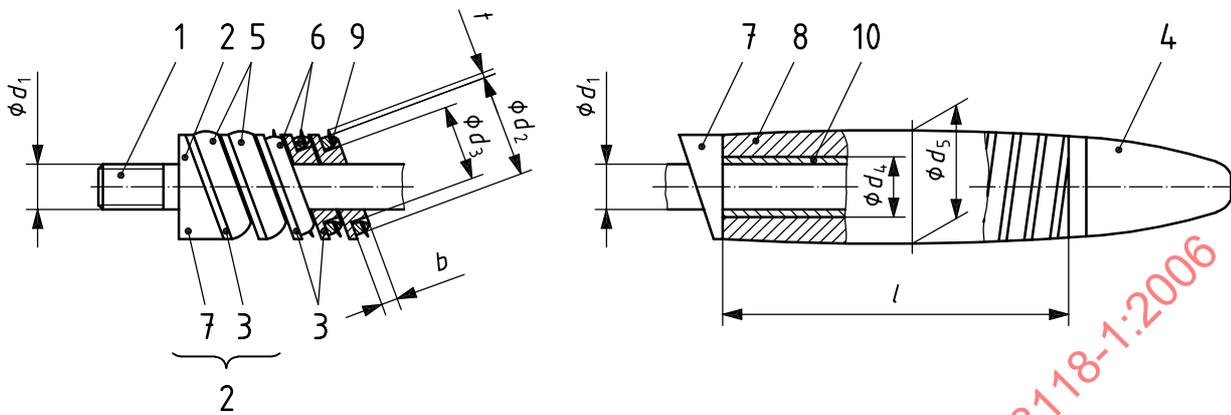
##### **roller**

revolving element of the temple cylinder which works independently of, or in addition to, other parts of the temple cylinder

See Figure 1.

### 3 Nomenclature

Figure 1 identifies temple cylinder components and dimensions.



#### Key

- |                              |   |
|------------------------------|---|
| $b$ ring width               | 1 axle  |
| $d_1$ axle diameter          | 2 end ellipse (can be single piece or composed of elements 3 and 7) |
| $d_2$ ring diameter          | 3 ellipse   |
| $d_3$ bore diameter          | 4 head piece  |
| $t$ protruding pin length    | 5 selvedge ring   |
| $d_4$ roller inside diameter | 6 ring  |
| $d_5$ roller diameter        | 7 bevelled disc   |
| $l$ roller length            | 8 roller <sup>a</sup>   |
|                              | 9 pin   |
|                              | 10 spacer bush  |

NOTE For the values of dimensions, see Tables 1 and 2.

<sup>a</sup> Any additional identification is determined by the outer structure of the roller, e.g. "rubber roller", "brass roller".

**Figure 1 — Temple cylinder nomenclature — Components and dimensions**

## 4 Specifications

### 4.1 Axle diameter

The axle diameter  $d_1$  shall be 10 mm.

### 4.2 Rings (complete)

The rings shall be in accordance with Table 1.

Table 1 — Specification of rings

Dimensions in millimetres

Ring series	Nominal diameter	Number of pin rows	Total number of pins	$t$	$d_2$	$d_3$	$b$
A	24	1	18	0,5-0,75-1,00 1,25-1,50-1,75	24	16	4,4
		2	30	1,50-1,75	24	16	4,4
			36	1,25			
			48	1,0			
			60	0,75			
3	72	0,50	24	16	4,4		
	54	1,25					
	72	1,0					
	90	0,75					
4	24	108	0,5-0,3	24	17	6,0	
		72	1,25-1,5-1,75				
		96	1,0				
		120	0,75				
		144	0,50				
5	23	90	1,25-1,5-1,75	25	17	6,0	
		120	1,0				
		150	0,75				
		180	0,50				
		B	23				1
2	24			1,75-2,0	23	15,1	3,5
	30			1,5			
	36			1,25			
3	48			0,5-0,75-1,0-1,25	23	16,1	5,7
	72	1,25-1,5					
4	23	96	0,5-0,75-1,0	23	16,1	5,7	
		132	0,5-0,75-1,0				
		150	1,0				
5	150	1,0	24	16,1	7,0 <sup>b</sup>		
C <sup>a</sup>	17	3	72	0,5-0,75-1,0-1,25	17	12	4,8

<sup>a</sup> These dimensions should be avoided for new constructions.

<sup>b</sup> For counterschön, as an alternative to two parallel broad selvage rings, two opposite rings may be used.

4.3 Rollers

The rollers shall be in accordance with Table 2.

Table 2 — Specification of rollers

Dimensions in millimetres

Roller series	Outer material	Outer structure	Outside diameter $d_5$	Inside diameter $d_4$	Length
A	Rubber Brass Steel Synthetic	Smooth	24	14	$l$
		Radial	26	14	
B		Grooved	22 24	14,1	$l$
		Coarse thread LH/RH		14,1	
		Fine thread LH/RH Beaten surface			

5 Designation

The designation of a temple cylinder ring shall provide the following information, in the order given:

- a) "Ring of the temple cylinder";
- b) reference to this part of ISO 8118 (i.e. "ISO 8118-1");
- c) the series to which the ring belongs and the number of pin rows;
- d) the total number of pins;
- e) the pin length protrusion  $t$ ;
- f) the ring width  $b$ ;
- g) the shape of the pin-point (sharp or blunt).

EXAMPLE A temple cylinder ring of ring series A with two pin rows, a total number of pins of 48, a protruding length of 1,0 mm, a ring width of 4,4 mm and a blunt pin point shall be designated as follows:

**Ring of the temple cylinder ISO 8118-1 – A2 – 48 – 1,0 – 4,4 – blunt**