INTERNATIONAL STANDARD

ISO 8118-1

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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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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

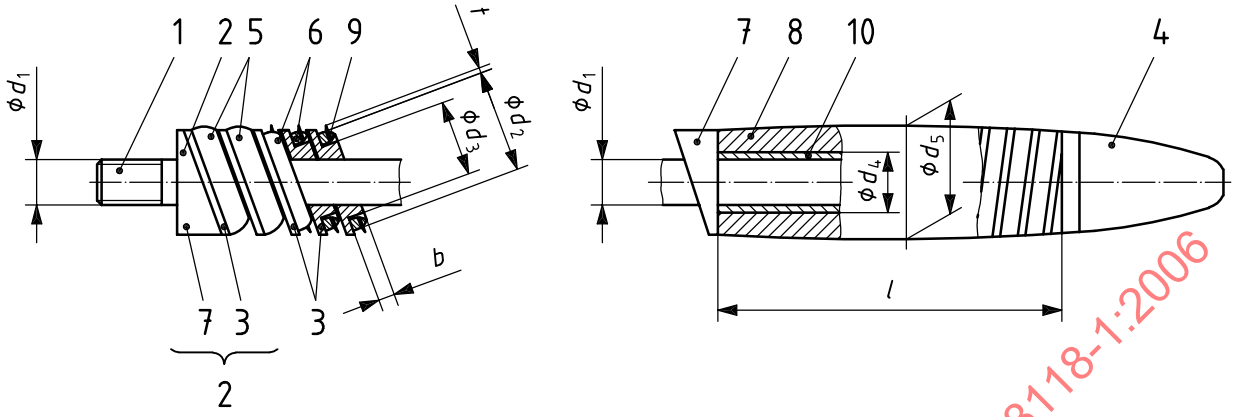
See Figure 1.

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 [a]
		9	pin
		10	spacer bush

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

[a] 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 36 48 60 72	1,50-1,75 1,25 1,0 0,75 0,50	24	16	4,4
		3	54 72 90 108	1,25 1,0 0,75 0,5-0,3	24	16	4,4
		4	72 96 120 144	1,25-1,5-1,75 1,0 0,75 0,50	24	17	6,0
		5	90 120 150 180	1,25-1,5-1,75 1,0 0,75 0,50	25	17	6,0
B	23	1	24	0,5-0,75-1,0 1,25-1,5-1,75	23	15,1	3,5
		2	24 30 36 48	1,75-2,0 1,5 1,25 0,5-0,75-1,0-1,25	23	15,1	3,5
		3	72	1,25-1,5	23	16,1	5,7
		4	96 132	0,5-0,75-1,0 0,5-0,75-1,0	23	16,1	5,7
		5	150	1,0	24	16,1	7,0[b]
C[a]	17	3	72	0,5-0,75-1,0-1,25	17	12	4,8

[a] These dimensions should be avoided for new constructions.

[b] For conterschon, as an alternative to two parallel broad selvedge 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 Radial Grooved Coarse thread LH/RH Fine thread LH/RH Beaten surface	24 26	14 14	l
B			22 24	14,1 14,1	l

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