INTERNATIONAL STANDARD

ISO 96-2

Second edition
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Textile machinery and accessories — Rings and travellers for ring spinning and ring twisting frames —

Part 2: HZ- and J-rings and their travellers

Matériel pour l'industrie textile — Anneaux et curseurs pour machines à filer et à retordre —

Partie 2: Anneaux HZ et J et leurs curseurs

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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 96-2 was prepared by Technical Committee ISO/TC 72, *Textiles machinery and accessories*, Subcommittee SC 1, *Spinning preparatory, spinning, twisting and winding machinery and accessories*.

This second edition cancels and replaces the first edition (ISO 96-2:1992), which has been technically revised.

ISO 96 consists of the following parts, under the general title *Textile machinery and accessories — Rings and travellers for ring spinning and ring twisting frames*:

— *Part 1: Flange rings T and SF and their travellers*

— *Part 2: HZ- and J-rings and their travellers*

Textile machinery and accessories — Rings and travellers for ring spinning and ring twisting frames —

Part 2:
HZ- and J-rings and their travellers

1 Scope

This part of ISO 96 specifies the principal dimensions of HZ- and J-rings, and the mass and tolerance on the mass, of the appropriate travellers for HZ- and J-rings employed on ring spinning and ring twisting machines. It also specifies the method of designation of the travellers.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3, *Preferred numbers — Series of preferred numbers*

3 Principal dimensions of HZ- and J-rings

The principal dimensions of HZ- and J-rings are illustrated in Figure 1 and Figure 2, respectively, and specified in Table 1.

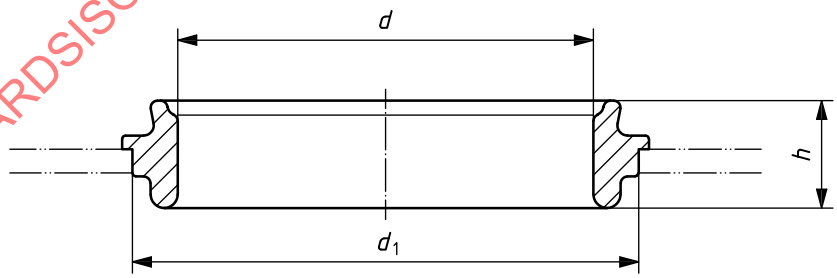

Figure 1 — Example of an HZ-ring (vertical ring)

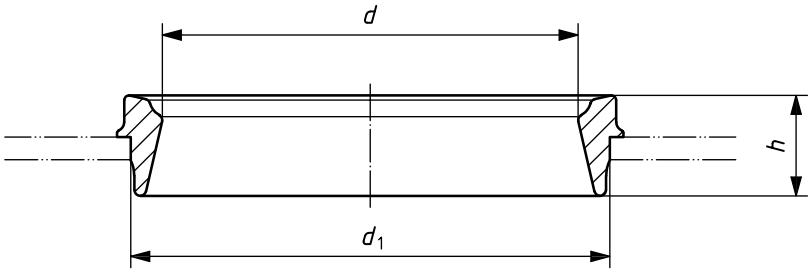

Figure 2 — Example of a J-ring (conical ring)

Table 1 — Ring dimensions

Dimensions in millimetres

Ring type **inside diameter** d	**Tolerance of fitting diameter** d_1 tolerance [a]	**HZ** **height** h $^{+0,1}_{0}$	**J** **height** h $^{+0,1}_{0}$
45	$^{0}_{-0,25}$	6,3	9,1
48			
50			
55			
60		9,5	
65			
70		10,3	
75			
80		11,1	
90	$^{0}_{-0,32}$	16,7	11,1
100			
110		25,4	
125			
140	$^{0}_{-0,4}$	38,1	17,4
150			
160			
180	$^{0}_{-0,55}$		
200			
> 200			

[a] The tolerance refers to the diameter d_1, excluding any ovality.

4 Travellers

4.1 Examples of travellers appropriate for HZ- and J-rings are shown in Figures 3 and 4, and Figures 5 and 6, respectively.

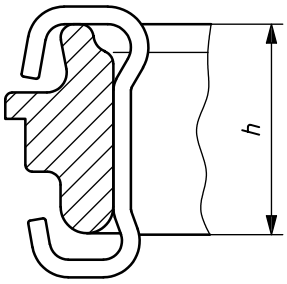

Figure 3 — Example of a metal traveller on an HZ-ring

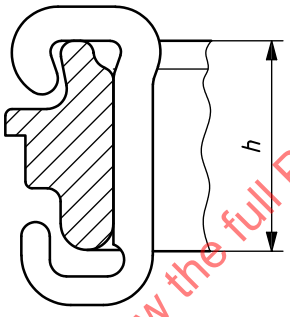

Figure 4 — Example of a plastic traveller on an HZ-ring

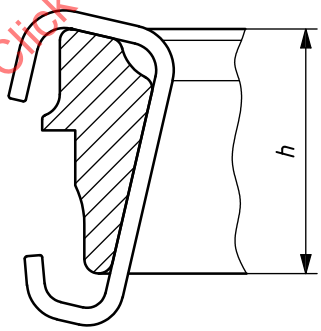

Figure 5 — Example of a metal traveller on a J-ring

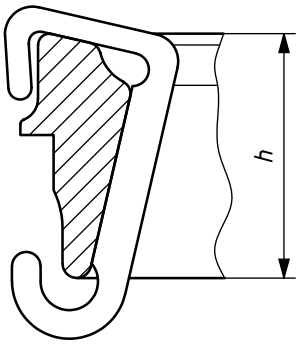

Figure 6 — Example of a plastic traveller on a J-ring

4.2 The values for traveller mass are given in Table 2.

The traveller mass is taken from the R20 series of preferred numbers in accordance with ISO 3. The range of traveller mass comprises values from 9 to 20 000 inclusive.

The traveller mass represents the nominal mass, in grams, of 1 000 travellers of the same type.

The tolerance on the nominal mass for 1 000 travellers of the same type is ± 3 % for metal travellers and $\left(^{+5}_{0}\right)$% for plastic travellers.

Table 2 — Traveller mass

Mass of traveller (grams per 1 000 travellers)			
9	63	450	3 150
10	71	500	3 550
11,2	80	560	4 000
12,5	90	630	4 500
14	100	710	5 000
16	112	800	5 600
18	125	900	6 300
20	140	1 000	7 100
22,4	160	1 120	8 000
25	180	1 250	9 000
28	200	1 400	10 000
31,5	224	1 600	11 200
35,5	250	1 800	12 500
40	280	2 000	14 000
45	315	2 240	16 000
50	355	2 500	18 000
56	400	2 800	20 000