

INTERNATIONAL  
STANDARD

**ISO**  
**8116-6**

Second edition  
1995-09-15

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**Textile machinery and accessories —  
Beams for winding —**

**Part 6:**

**Beams for ribbon weaving and ribbon knitting  
(standards.iteh.ai)**

*Matériel pour l'industrie textile — Ensembles pour enroulement —*

*Partie 6: Ensembles pour rubans tissés et rubans tricotés*

INTERNATIONAL

ISO



Reference number  
ISO 8116-6:1995(E)

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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.

International Standard ISO 8116-6 was prepared by Technical Committee ISO/TC 72, *Textile machinery and allied machinery and accessories*, Subcommittee SC 2, *Winding and preparatory machinery for fabric manufacture*.

This second edition cancels and replaces the first edition (ISO 8116-6:1990), which has been technically revised.

ISO 8116 consists of the following parts, under the general title *Textile machinery and accessories — Beams for winding*:

- Part 1: *General vocabulary*
- Part 2: *Warper's beams*
- Part 3: *Weaver's beams*
- Part 4: *Quality classification of flanges for weaver's beams, warper's beams and sectional beams*
- Part 5: *Sectional beams for warp knitting machines*
- Part 6: *Beams for ribbon weaving and ribbon knitting*
- Part 7: *Beams for dyeing slivers, rovings and yarns*

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- *Part 8: Definitions of run-out tolerances and methods of measurement*
- *Part 9: Dyeing beams for textile fabrics*

Annex A of this part of ISO 8116 is for information only.

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# Textile machinery and accessories — Beams for winding —

## Part 6:

## Beams for ribbon weaving and ribbon knitting

### iTeh STANDARD PREVIEW (standards.iteh.ai)

#### 1 Scope

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This part of ISO 8116 defines the basic terms and designation and lays down the main dimensions as well as the variation of form and position for beams for ribbon weaving and ribbon knitting.

#### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 8116. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 8116 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 286-2:1988, *ISO system of limits and fits — Part 2: Tables of standard tolerance grades and limit deviations for holes and shafts.*

ISO 2768-1:1989, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications.*

ISO 8116-4:1995, *Textile machinery and accessories — Beams for winding — Part 4: Quality classification of flanges for weaver's beams, warper's beams and sectional beams.*

ISO 8116-8:1995, *Textile machinery and accessories — Beams for winding — Part 8: Definitions of run-out tolerances and methods of measurement.*

### 3 Types of beam with coordination of the quality classes for flanges

(See table 1)

**Table 1 — Types of beams with coordination of the quality classes for flanges**

Type	Mounting	Brake	Quality class of flanges in accordance with ISO 8116-4			
			1	2	3	4
<b>A</b>	With shaft	Flange with slot for brake band	—	X	X	X
<b>B</b>	With bore					
<b>C</b>	With shaft	Additional disc brake	X	X	X	X
<b>D</b>	With bore					

### 4 Terminology and main dimensions

(See figures 1 to 4 and tables 2 and 3)

$d_1$  flange diameter

$d_2$  barrel diameter

$d_3$  shaft diameter

$d_4$  bore diameter

$l_1$  width between flanges

$l_2$  overall length (without shafts)

$l_3$  length of shaft

$n_1$  distance between slotted holes

$n_2$  length of driving slot

$n_3$  width of driving slot

$s_1$  thickness of flange

$s_2$  width of brake groove

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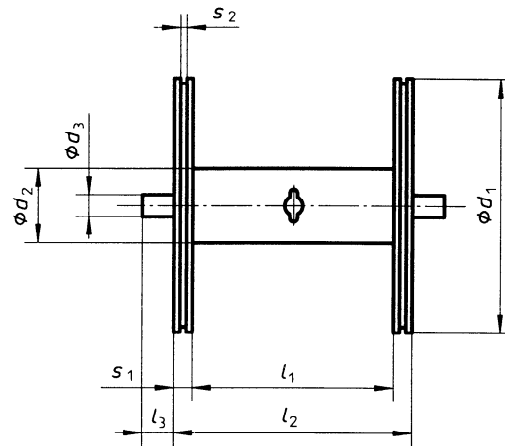
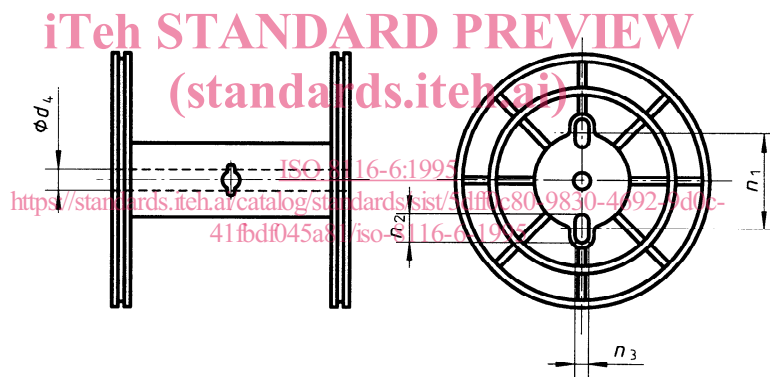


Figure 1 — Beams for ribbon weaving and ribbon knitting — Type A



NOTE — The other dimensions are given in figure 1.

Figure 2 — Beams for ribbon weaving and ribbon knitting — Type B

**Table 2 — Main dimensions of beams for ribbon weaving and ribbon knitting — Types A and B**

Dimensions in millimetres

$d_1$ <sup>1)</sup>	$d_2$	$d_3$ $\begin{smallmatrix} 0 \\ -0,15 \end{smallmatrix}$	$d_4$ H11 <sup>2)</sup>	$s_1$ max.	$s_2$	$n_1$	$n_2$	$n_3$	$l_1$	$l_2$ $\begin{smallmatrix} 0 \\ -1 \end{smallmatrix}$	$l_3$
(130)	40	20	13	10 11	4 5	42	12,5	8	$l_2 - 2s_1$	75	30
160	50	20	13	12 13	6 6	52,5	15,5	9			
200	60	20	13	13 14	6,5 6,5	67,5	22,5	9			
(220)	60	20	13	13 14	6,5 6,5	74 62,5	34 22,5	9			
240	70	20	13	14 15	7 8	88,5	26,5	11			
300	80	—	17	17 18	8,5 8,5	86,5 86,5	28,5 28,5	11 12			
350	100 120	—	17	20 22	8,5 8,5	87,5 88,5	32,5 33,5	13			
400	110 120	—	17	22 25	8,5 10	96,5 97,5	41,5 42,5	13			
450	120 150	—	17	25 30	8,5 10	95 118	35 58	13			
500	150 180	—	17	30 35	10	117 121	57 61	16			

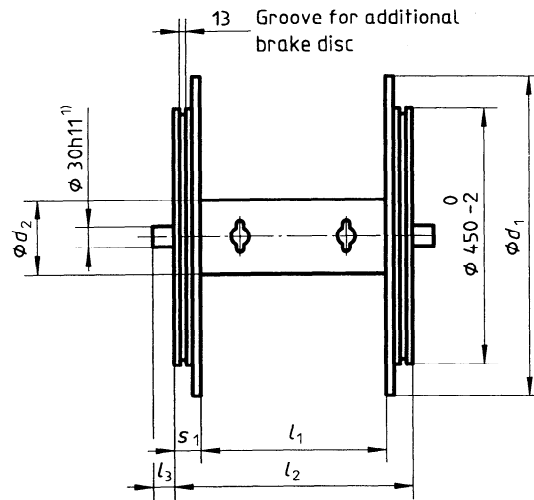
NOTE — General tolerances which are not specified: **ISO 2768-m** (see ISO 2768-1).

1) Dimensions shown in parentheses should be avoided for new constructions.

2) See ISO 286-2.



Dimensions in millimetres

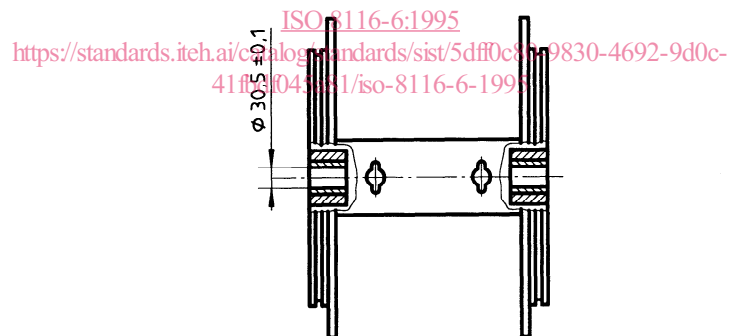


1) See ISO 286-2.

Figure 3 — Beams for ribbon weaving and ribbon knitting — Type C

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Dimensions in millimetres



NOTE — The other dimensions are given in figure 3.

Figure 4 — Beams for ribbon weaving and ribbon knitting — Type D