INTERNATIONAL STANDARD



First edition 1995-12-15

Textile machinery and accessories — Cones for cross winding —

Part 3: iTeh S Dimensions, tolerances and designation (soft cones) with half angle 4° 20'

ISO 8489-3:1995

https://standards.itek.ai/catalog/standards/sist/2625h59_867e-472_a88 Materiel pour l'industrie textile — Cônes pour bobinage croisé — 29591771144/6/iso-8489-3-1995 Partie 3: Dimensions, tolérances et désignation des cônes avec demi-angle au sommet de 4° 20'



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 (VIR) W a vote.

International Standard ISO 8489-3 was prepared by Technical Committee ISO/TC 72, Textile machinery and allied machinery and accessories, Subcommittee SC 2, Winding and preparatory machinery for fabric manufachttps://standards.iteh.ai/catalog/standards/sist/2625bf39-8e7e-4f72-af88ture. 29591771d476/iso-8489-3-1995

This first edition of ISO 8489-3 cancels and replaces ISO 111:1978, which has been technically revised.

ISO 8489 consists of the following parts, under the general title Textile machinery and accessories — Cones for cross winding:

- Part 1: Recommended main dimensions
- Part 2: Dimensions, tolerances and designation of cones with half angle 3 degrees 30'
- Part 3: Dimensions, tolerances and designation of cones with half angle 4 degrees 20'
- Part 4: Dimensions, tolerances and designation of cones with half angle 4 degrees 20' for winding for dyeing purposes
- Part 5: Dimensions, tolerances and designation of cones with half angle 5 degrees 57'

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International Organization for Standardization

Textile machinery and accessories — Cones for cross winding —

Part 3:

Dimensions, tolerances and designation of cones with half angle 4° 20'

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1 Scope

This part of ISO 8489 specifies the main dimensions, tolerances and designation of cones for cross winding with a half angle of cone 4° 20'. Furthermore, directives are 2000 for the characteristics of cones and for the control of the diameters and lengths/of the cone ai/catalog/standards/sist/2625bf39-8e7e-4f72-af88-29591771d476/iso-8489-3-1995

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 8489. 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 8489 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 286-1:1988, ISO system of limits and fits — Part 1: Bases of tolerances, deviations and fits.

ISO 8489-1:1995, Textile machinery and accessories — Cones for cross winding — Part 1: Recommended main dimensions.

3 Dimensions and tolerances

See figure 1 a) and b) and table 1.

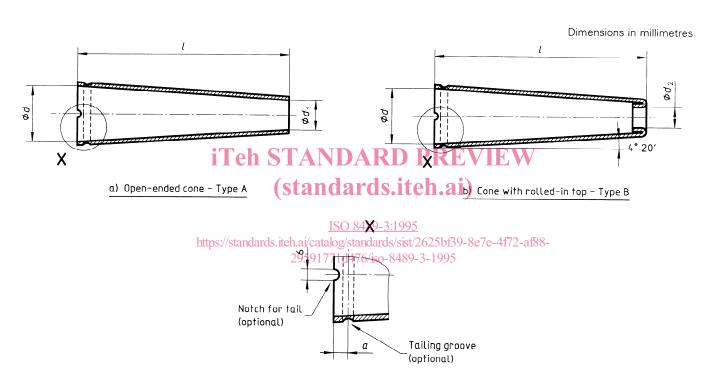


Figure 1 — Cones

Dimensions in millimetre											
d		d_1		<i>d</i> ₂ *)		а	I				
nominal	tolerance	nominal	tolerance	nominal	tolerance	nominal	nominal	tolerance			
55	± 0,25	33	<u>+</u> 0,25	28	± 0,3	8	145	<u>+</u> 1			
59 ^{**)}	± 0,25	33	± 0,25	28	± 0,3	8	170 ^{**)}	± 1			
80	± 0,25	45,1	± 0,25	35	± 0,5	8	230	± 2			

Table 1 — Dimensions

NOTES

1) The width of wound yarn shall not exceed l - 25 mm.

2) The deviations from the nominal value 4° 20' of the half angle of the cone are limited by the tolerances for d, d_1 and l, as indicated in the table. They do not influence the practical use of the cones during winding and further processes.

*) In certain cases, especially for automatic winding, dimensions of this size must be agreed upon between the interested parties in relation to the wall thickness.

**) Main dimensions as recommended in ISO 8489-1.

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ISO 8489-3:1995

4 Characteristics https://standards.iteh.ai/catalog/standards/sist/2625bf39-8e7e-4f72-af88-

29591771d476/iso-8489-3-1995

The following details shall be specified by the manufacturer:

a) cone material (paper or plastic);

b) surface treatment (paper: untreated, impregnated or lacquered);

c) nature of yarn to be wound;

d) thickness of cone wall (corresponding to the nature of the yarn to be wound);

e) run-out tolerance (if required);

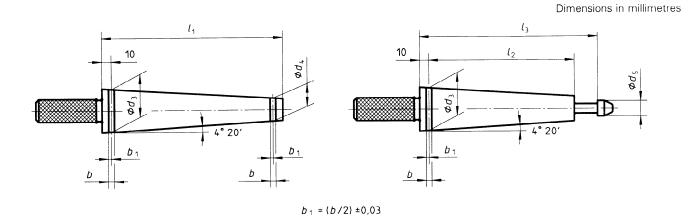
f) details of tailing groove and notch for tail (if required);

g) number, size and location of perforations (if required).

The minimum distance between the ends of the cone and edges of the nearest holes, if any, shall be 16 mm \pm 0,5 mm.

5 Dimensions, tolerances and use of the gauges

See figure 2 a) and b) and table 2.



a) For open-ended cones - Type A

b) For cones with rolled-in top - Type B

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Table 2 ____ Dimensions

	https://st	:1995 alaiat/2625hBQ	Dimensions in millimetres							
<i>d</i> ₃ *)	$d_4^{*)}$	l ₁ 2959	1771a4476/iso-	8489- <i>3l</i> ₂ 1995	l_3	b				
			h9	max.	min.	<u>+</u> 0,03				
55	33	165	27,5	145	161	3,2				
59	33	190	27,5	170	186	3,2				
80	45,1	250	34,5	230	246	3,2				
*) The tolerance of the diameters of the gauge, measured at any distance from the ends, shall be js6 (see ISO 286-1:1988).										

**) In certain cases, especially for automatic winding, dimensions of this size must be agreed

upon between the interested parties in relation to the wall thickness.

The inner dimensions of the cone are in accordance with this part of ISO 8489 if the edge of the larger end of the cone, after it has been placed gently on the gauge and then pressed firmly home by hand, is between the tolerance marks.

To check the smaller diameter of an open-ended cone, it shall be placed firstly with the smaller end on the gauge. The edge of the smaller end of the cone must then lie between the tolerance marks on the corresponding end of the gauge.

6 Control of cone length

To check the tolerances of the length of the cone, a suitable gauge for checking lengths, for example a slide-gauge, must be used. The conical gauges shown cannot be used for this purpose.

7 Designation

The designation of a cone for cross winding with a half angle of 4° 20' shall include the following information, in the order given:

- a) "Cone";
- b) reference to this part of ISO 8489, i.e. ISO 8489-3;
- c) type (A or B);
- d) its large inner diameter, d, in millimetres;
- e) its length, *l*, in millimetres.

EXAMPLE

A cone with a half angle of 4° 20', type A, with a large inner diameter *d* of 59 mm and length *l* of 170 mm shall be designated as follows: **iTeh STANDARD PREVIEW**

Cone ISO 8489-3 - A 59×170 (standards.iteh.ai)

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