

INTERNATIONAL  
STANDARD

**ISO**  
**8489-1**

Second edition  
1995-12-15

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**Textile machinery and accessories —  
Cones for cross winding —**

**Part 1:**  
Recommended main dimensions

*Matériel pour l'industrie textile — Cônes pour bobinage croisé —  
Partie 1: Dimensions principales recommandées*



Reference number  
ISO 8489-1:1995(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 8489-1 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 8489-1:1985), 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  
Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

## Introduction

The cones given in this part of ISO 8489 are intended to help to reduce the abundance of existing types of cones for winding. Their use is recommended for new designs and in particular for process automation.

This part of ISO 8489 is to be considered as the basic standard regarding the main types of cones for future developments.

For particular applications of large inner diameters and cone lengths one should refer to subsequent parts of ISO 8489. Such parts show additional types of cones which are not included in this part of ISO 8489 and give full information on dimensions, tolerances, cone materials, use of gauges and checking of cone lengths.

# Textile machinery and accessories — Cones for cross winding —

## Part 1: Recommended main dimensions

### 1 Scope

This part of ISO 8489 specifies the recommended types of cones (values of half angles, lengths and large inner diameters) used in the field of textile industry.

### 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 8489-2:1995, *Textile machinery and accessories — Cones for cross winding — Part 2: Dimensions, tolerances and designation of cones with half angle 3 degrees 30'*.

ISO 8489-3:1995, *Textile machinery and accessories — Cones for cross winding — Part 3: Dimensions, tolerances and designation of cones with half angle 4 degrees 20'*.

ISO 8489-4:1995, *Textile machinery and accessories — Cones for cross winding — Part 4: Dimensions, tolerances and designation of cones with half angle 4 degrees 20' for winding for dyeing purposes.*

ISO 8489-5:1995, *Textile machinery and accessories — Cones for cross winding — Part 5: Dimensions, tolerances and designation of cones with half angle 5 degrees 57'.*

### 3 Main dimensions of recommended cones for future developments

Dimensions in millimetres

Half angle of cone	Large inner diameter × Length <i>d × l</i>	Application preferable for	Reference document
3° 30'	46 × 175	viscose	ISO 8489-2
	71,5 × 230	coarse yarns	
4° 20'	59 × 170	staple fibre	ISO 8489-3
	59 × 170	dyeing yarns	ISO 8489-4
5° 57'	68 × 170	staple fibre	ISO 8489-5

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**ICS 59.120.20**

**Descriptors:** textile machinery, winding, winders, cones, dimensions.

Price based on 2 pages

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