



Textile machinery and accessories — Cones for yarn winding (cross wound) — Half angle of the cone $4^{\circ} 20'$

Matériel pour l'industrie textile — Cônes pour bobinage croisé — Demi-angle du cône $4^{\circ} 20'$

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 111 was developed by Technical Committee ISO/TC 72, *Textile machinery and accessories*, and was circulated to the member bodies in February 1977.

It has been approved by the member bodies of the following countries :

Belgium	Kenya	South Africa, Rep. of
Czechoslovakia	Korea, Rep. of	Spain
France	Mexico	Switzerland
Germany	Netherlands	United Kingdom
India	Poland	U.S.S.R.
Italy	Romania	Yugoslavia

The member body of the following country expressed disapproval of the document on technical grounds :

Turkey

This International Standard cancels and replaces ISO Recommendation R 111-1959, of which it constitutes a technical revision.

Textile machinery and accessories – Cones for yarn winding (cross wound) – Half angle of the cone $4^{\circ} 20'$

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the dimensions and the tolerances of cones for yarn winding (cross wound) having a half angle of the cone of $4^{\circ} 20'$, as well as the dimensions and tolerances of the gauges for measuring the cone.

2 DIMENSIONS AND TOLERANCES

See figures and tables on page 2.

Dimensions which are not specified are left to the discretion of the manufacturer.

The width of wound yarn shall not exceed $L - 25$ mm.

The deviations from the nominal value $4^{\circ} 20'$ of the half angle of 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 during further processes.

3 MATERIAL

The material may be untreated, impregnated or lacquered paper or suitable plastic.

The following details shall be specified :

- nature of yarn to be wound;
- treatment of surface;
- wall thickness (corresponding to the nature of yarn);

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

e) number, size and location of perforation (if required).

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

4 USE OF THE GAUGE

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

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

5 CHECKING OF THE LENGTH OF THE CONE

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