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STANDARD

**ISO**  
**3914-1**

Second edition  
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**Textile machinery and accessories —  
Cylindrical tubes —**

**Part 1:**  
Recommended main dimensions

*Matériel pour l'industrie textile — Tubes cylindriques —  
Partie 1: Dimensions principales recommandées*



Reference number  
ISO 3914-1:1994(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 3914-1 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 3914-1:1982), which has been technically revised.

ISO 3914 consists of the following parts, under the general title *Textile machinery and accessories — Cylindrical tubes*:

- *Part 1: Recommended main dimensions*
- *Part 2: Dimensions, tolerances and designation of tubes for open-end spinning machines*
- *Part 3: Dimensions, tolerances and designation of tubes for tape yarns*
- *Part 4: Dimensions, tolerances and designation of tubes for textured yarns*
- *Part 5: Dimensions, tolerances and designation of tubes for continuous spin-drawn synthetic filament yarns*

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- *Part 6: Dimensions, tolerances and designation of tubes for cross-wound packages in winding and twisting*
- *Part 7: Dimensions, tolerances and designation of perforated tubes for cheese dyeing*

## Introduction

The dimensions given in this part of ISO 3914 should help to reduce the abundance of sizes of existing cylindrical tubes. Their use is recommended for new designs and in particular for process automation.

This part of ISO 3914 is to be considered as the basic standard regarding the main types of cylindrical tubes for future developments.

For dimensions of tubes for particular applications, subsequent parts of ISO 3914 give guidance. Such subsequent parts show additional types of tubes which are not included in this part of ISO 3914 and give full information on dimensions, tolerances, tube materials, use of gauges and checking of tube lengths.

# Textile machinery and accessories — Cylindrical tubes —

## Part 1: Recommended main dimensions

### 1 Scope

This part of ISO 3914 gives the recommended main dimensions of cylindrical tubes (inner diameters and lengths) used in the field of textile machinery.

### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 3914. 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 3914 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 3914-2:1994, *Textile machinery and accessories — Cylindrical tubes — Part 2: Dimensions, tolerances and designation of tubes for open-end spinning machines.*

ISO 3914-3:1994, *Textile machinery and accessories — Cylindrical tubes — Part 3: Dimensions, tolerances and designation of tubes for tape yarns.*

ISO 3914-4:1994, *Textile machinery and accessories — Cylindrical tubes — Part 4: Dimensions, tolerances and designation of tubes for textured yarns.*

ISO 3914-5:1994, *Textile machinery and accessories — Cylindrical tubes — Part 5: Dimensions, tolerances and designation of tubes for continuous spin-drawn synthetic filament yarns.*

ISO 3914-6:1994, *Textile machinery and accessories — Cylindrical tubes — Part 6: Dimensions, tolerances and designation of tubes for cross-wound packages in winding and twisting.*

ISO 3914-7:1994, *Textile machinery and accessories — Cylindrical tubes — Part 7: Dimensions, tolerances and designation of perforated tubes for cheese dyeing.*

### 3 Recommended main dimensions of tubes for future developments

**Table 1**

Dimensions in millimetres

Application	Inner diameter × length	Source
Open-end yarns	54 × 170	ISO 3914-2
Tape yarns	90 × 230 90 × 290	ISO 3914-3
Textured yarns	69 × 290	ISO 3914-4
Continuous spin-drawn synthetic filament yarns	94 × 150 94 × 290 94 × 300 143 × 150 143 × 290 143 × 300	ISO 3914-5
Cross-wound packages in winding and twisting	56 × 175 69 × 290 94 × 290	ISO 3914-6
Cheese dyeing	54 × 170	ISO 3914-7

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**Descriptors:** textile machinery, pipes (tubes), dimensions, diameters, length.

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