
**Spinning preparatory, spinning and
doubling (twisting) machinery —
Tubes for ring-spinning, doubling and
twisting spindles, taper 1:38 and 1:64**

*Matériel de préparation de filature, de filature et de retordage —
Tubes pour broches de continus à filer et à retordre à anneaux,
conicité 1:38 et 1:64*

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 72, *Textile machinery and accessories*, Subcommittee SC 1, *Spinning preparatory, spinning, twisting and winding machinery and accessories*.

This fifth edition cancels and replaces the fourth edition (ISO 368:2006), which has been technically revised.

The main changes compared to the previous edition are as follows:

- [Clause 2](#) has been updated;
- additional tube types have been included.

Spinning preparatory, spinning and doubling (twisting) machinery — Tubes for ring-spinning, doubling and twisting spindles, taper 1:38 and 1:64

1 Scope

This document specifies the dimensions (length and inner diameter) and permissible total run-out tolerances of tubes with taper 1:38 and 1:64 for ring-spinning, doubling and twisting spindles used in the textile industry. It also specifies the dimensions and tolerances of the gauges for checking the tubes.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 286-2, *Geometrical product specifications (GPS) — ISO code system for tolerances on linear sizes — Part 2: Tables of standard tolerance classes and limit deviations for holes and shafts*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at <https://www.iso.org/obp>

— IEC Electropedia: available at <http://www.electropedia.org/>

4 Types, dimensions and tolerances

4.1 Tubes

4.1.1 Tube types

Plain top tubes as shown in [Figure 1](#) a) shall be designated as type A tubes. Rolled-in top tubes as shown in [Figure 1](#) b) shall be designated as type B tubes.

4.1.2 Dimensions

Tube sizes shall be chosen from the dimensions specified in [Table 1](#).

4.1.3 Total run-out tolerance

The permissible total run-out tolerance, T_r , shall be in accordance with the values specified in [Table 1](#). The total run-out shall be measured in accordance with [Figure 2](#).

4.2 Gauges

Gauges shall conform to the dimensions and tolerances specified in [Table 2](#).

5 Tubes and gauges

5.1 Tubes

See [Figures 1](#) and [2](#), and [Table 1](#).

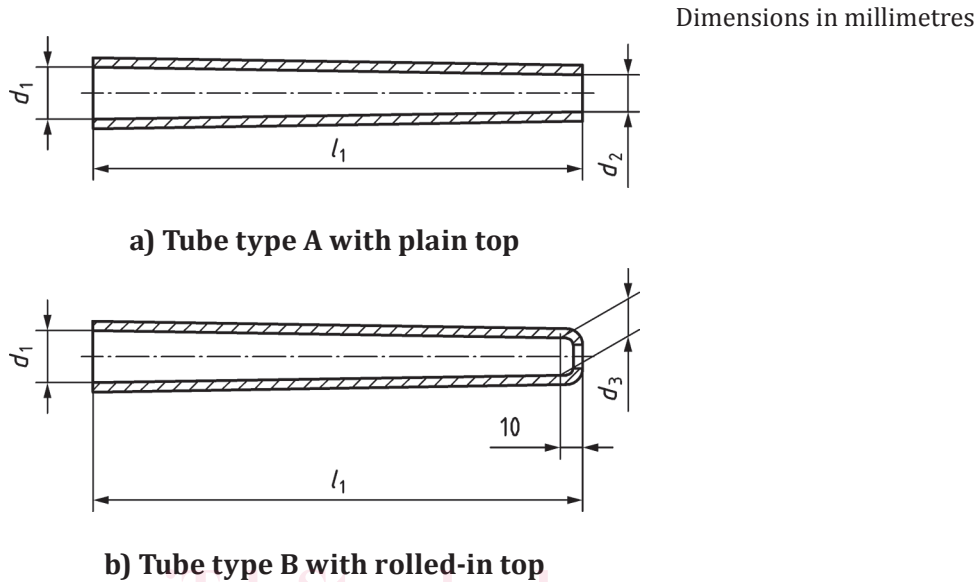


Figure 1 — Tubes

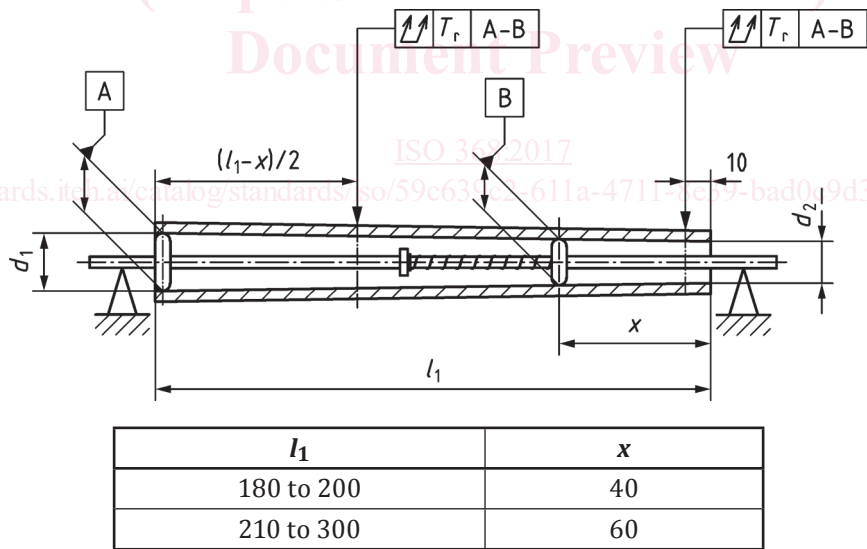


Figure 2 — Measurement of total run-out, T_r