
International Standard



6177

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Textile machinery — Cloth rollers — Terminology and main dimensions

Matériel pour l'industrie textile — Rouleaux magasins — Terminologie et dimensions principales

Second edition — 1986-05-15

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UDC 677.054.825.6

Ref. No. ISO 6177-1986 (E)

Descriptors : textile machinery, winders, rollers, definitions, dimensions, designation.

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.

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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 6177 was prepared by Technical Committee ISO/TC 72, *Textile machinery and allied machinery and accessories*.

This second edition cancels and replaces the first edition (ISO 6177:1983), clause 3.2 of which has been technically revised.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

Textile machinery — Cloth rollers — Terminology and main dimensions

1 Scope and field of application

This International Standard defines the basic terms, lays down the main dimensions and gives specifications of cloth rollers used for winding fabrics and feeding subsequent machines.

NOTE — In addition to terms given in the three official ISO languages (English, French, and Russian), this international Standard also gives the equivalent terms in German; these terms have been included at the request of ISO/TC 72 and are published under the responsibility of the member bodies for the Federal Republic of Germany (DIN) and Switzerland (SNV). However, only the terms and definitions given in the official languages may be considered as ISO terms and definitions.

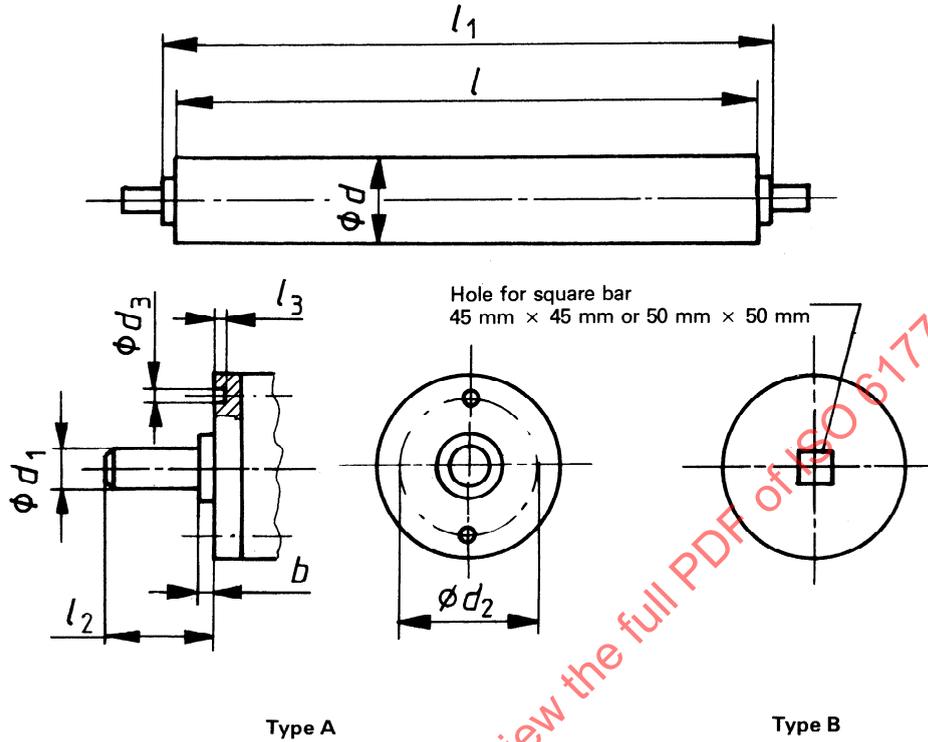
2 References

ISO 109, *Textile machinery — Working widths of weaving machines.*

ISO 5241, *Textile machinery and accessories — Weaver's beams — Terminology and main dimensions.*

ISO 8116/2, *Textile machinery and accessories — Beams for winding — Part 2: Warper's beams — Terminology and main dimensions.*

3 Terminology and main dimensions



NOTE — For other types of rollers, see the annex, figure 2

Figure 1

3.1 Terminology

| Symbol | English | French | Russian | German |
|--------|--|--|----------------------------------|-----------------------------------|
| d | Outside diameter of barrel | Diamètre extérieur du rouleau | Наружный диаметр валика | Außendurchmesser des Rohres |
| d_1 | Diameter of the shaft | Diamètre du tourillon | Диаметр цапфы | Zapfendurchmesser |
| d_2 | Diameter of pitch circle of driving holes | Diamètre de perçage des trous d'entraînement | Диаметр делительной окружности | Teilkreisdurchmesser |
| d_3 | Diameter of driving hole | Diamètre des trous d'entraînement | Диаметр отверстия для привода | Durchmesser des Mitnehmerloches |
| l | Barrel length | Longueur du rouleau | Длина валика навоя | Länge des Rohres |
| l_1 | Length over bosses, collar to collar, type A | Distance collet à collet, type A | Длина валика с выступами (тип А) | Länge einschließlich Bund (Typ A) |
| l_2 | Length of the shaft | Longueur du tourillon | Длина цапфы с выступом | Zapfenlänge einschließlich Bund |
| l_3 | Depth of driving hole | Profondeur du trou d'entraînement | Глубина отверстия для привода | Tiefe des Mitnehmerloches |
| b | Length of boss | Largeur du collet | Ширина выступа | Bundbreite |

3.2 Main dimensions

Dimensions in millimetres

| | |
|---|--|
| d | 100, (120) ¹⁾ , 150 ²⁾ |
| l | from 800 upwards in steps of 100 mm |
| $l_1 \begin{smallmatrix} 0 \\ -3 \end{smallmatrix}$ | $l + 10$ or $l + 100$ |

- 1) The size in brackets is to be avoided for new designs.
- 2) For outside barrel diameters greater than 150 mm the sizes specified in ISO 5241 and ISO 8116/2 shall apply.

The following data shall be specified :

- a) the barrel and shaft construction (type A or type B);
- b) the type of fabric to be wound on;
- c) the type of surface finish applied to the outside barrel circumference (honed finish, paint, chromium plated or nickel plated, etc.) or the type of barrel covering (felt, rubber, cloth, etc.);
- d) the selected type of the groove(s);
- e) for type B rollers, the section of the square bar if it is not 50 mm × 50 mm.

4 Designation

The designation of a cloth roller shall include the following information in the order given :

- a) name;
- b) reference to this International Standard;
- c) type of roller;
- d) outside diameter of the barrel;
- e) barrel length;
- f) length over bosses, collar to collar, type A.

Examples :

- A type A cloth roller (with shafts and collars), outside barrel diameter $d = 100$ mm, barrel length $l = 2\,000$ mm, length over bosses (collar to collar) $l_1 = l + 10$ mm :

Cloth roller ISO 6177 - A - 100 × 2 000 × 2 010

- A type B cloth roller for square bar of 50 mm edge length, outside barrel diameter $d = 100$ mm, barrel length $l = 1\,500$ mm :

Cloth roller ISO 6177 - B - 100 × 1 500

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Annex

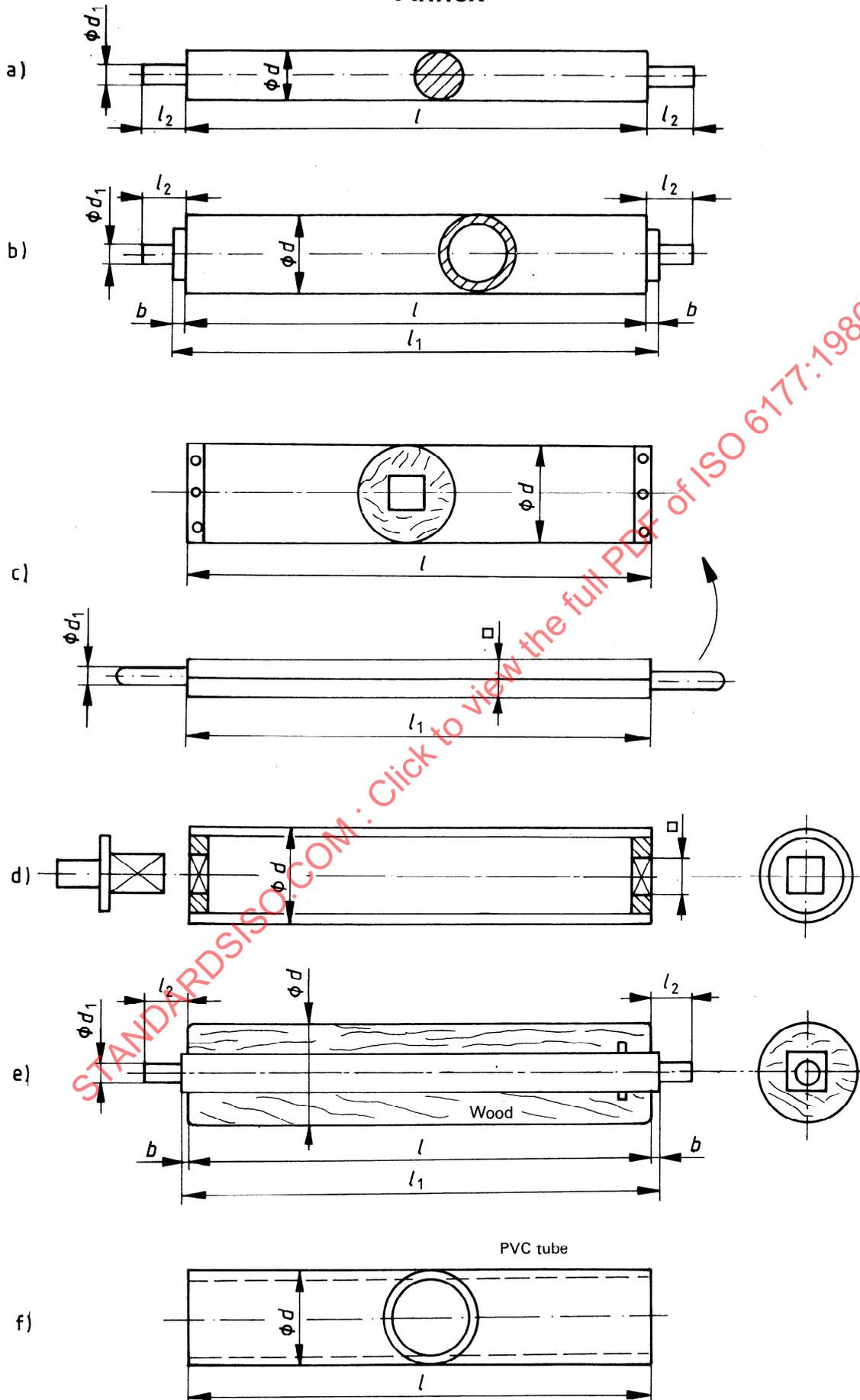


Figure 2 – Other types of rollers