
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

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ISO 6177:1983

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

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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 developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been authorized 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 6177 was developed by Technical Committee ISO/TC 72, *Textile machinery and allied machinery and accessories*, and was circulated to the member bodies in March 1982.

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

Australia	India	Spain
Belgium	Indonesia	Switzerland
Brazil	Japan	Turkey
Czechoslovakia	Korea, Rep. of	United Kingdom
Egypt, Arab Rep. of	Mexico	USSR
France	Romania	Yugoslavia
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No member body expressed disapproval of the document.

Textile machinery — Cloth rollers — Terminology and main dimensions

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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 committee members of 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 6177:1983](https://standards.iteh.ai/catalog/standards/sist/bf648ff-4e1c-4709-8b03-f75836642iso-6177-1983)

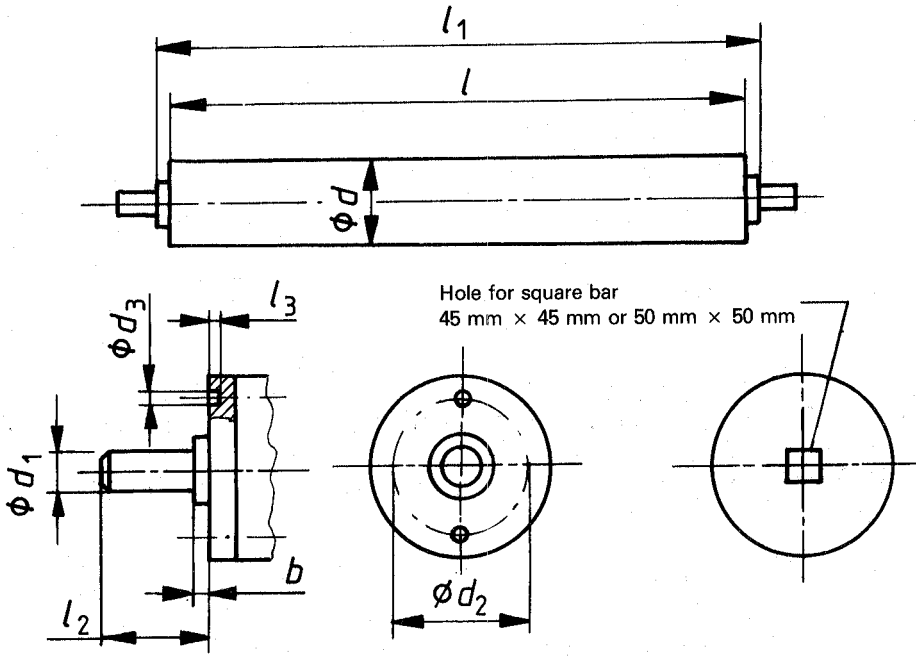
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ISO 109, *Textile machinery — Working widths of weaving machines.*

ISO 481, *Textile machinery and accessories — Warper's beams — Terminology and main dimensions.*

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

3 Terminology and main dimensions



Type A Type B

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

Figure 1

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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 A)	Länge einschließlich Bunde (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 820 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 481 shall apply.

The following data shall be specified :

- the barrel and shaft construction (type A or type B);
- the type of fabric to be wound on;
- 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.);
- the selected type of the groove(s);
- 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 :

- name;
- reference to this International Standard;
- type of roller;
- outside diameter of the barrel;
- barrel length;
- 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

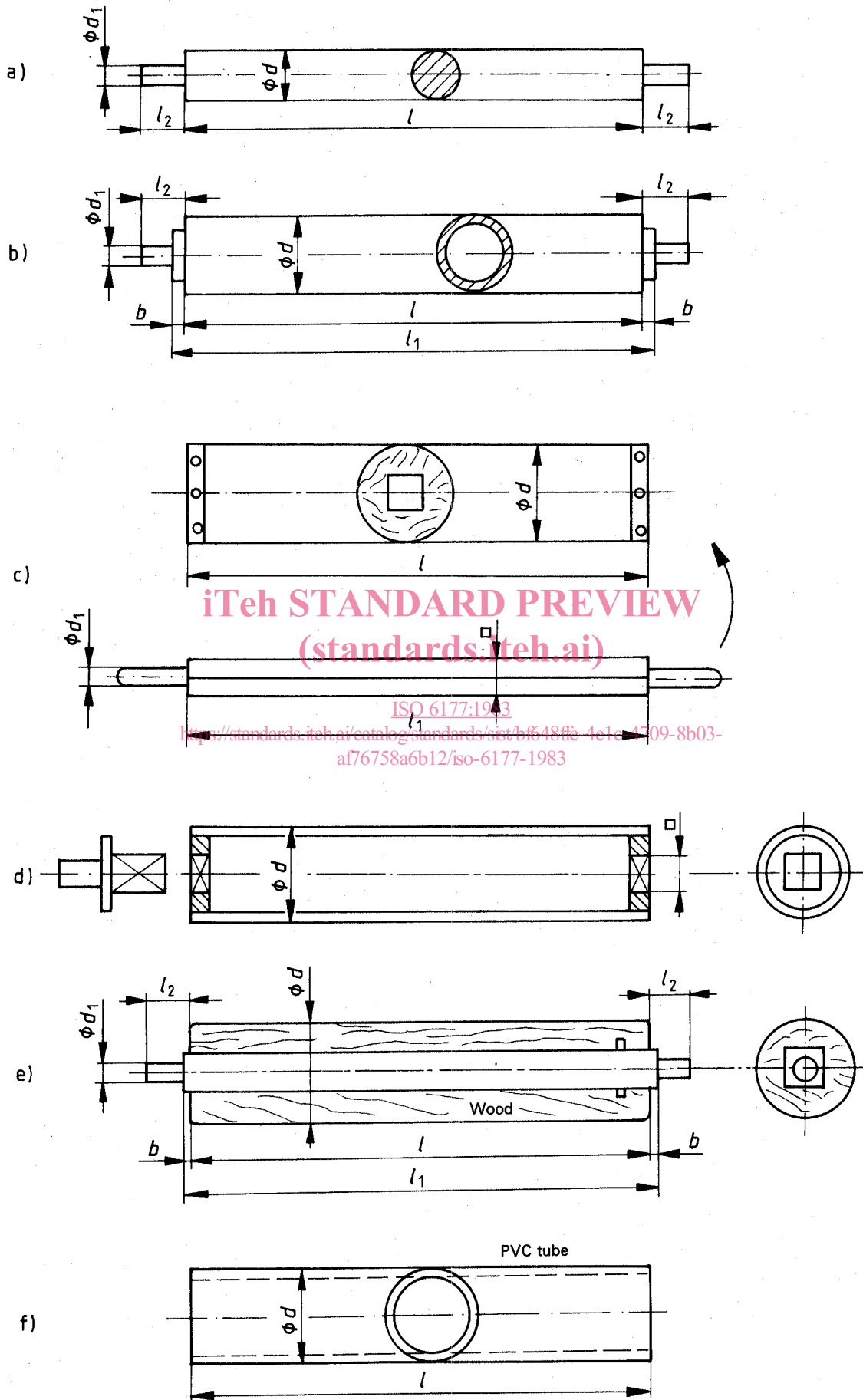


Figure 2 – Other types of rollers