INTERNATIONAL STANDARD

ISO 441

Second edition
1997-01-15

Textile machinery and accessories — Drop wires for warp stop motions for weaving machines without automatic drawing-in

Matériel pour l'industie textile — Lamelles pour casse-chaînes pour machines à tisser sans rentrée automatique des lamelles

Reference number
ISO 441:1997(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 441 was prepared by Technical Committee ISO/TC 72, *Textile machinery*, Subcommittee SC 3, *Machinery for fabric manufacture*.

This second edition cancels and replaces the first edition (ISO 441-1978), which has been technically revised.

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Textile machinery and accessories — Drop wires for warp stop motions for weaving machines without automatic drawing-in

1 Scope

This International Standard specifies the principal dimensions, tolerances and designation of drop wires for mechanical, electromechanical and electrical warp stop motions for wearing machines.

This International Standard applies only to drop wires that are drawn in by hand or pinned by means of a pinning machine. It applies to the following types of drop wires:

a) for mechanical and electromechanical warp stop motions

- MG (closed end)
- MO (open end)

b) for electrical warp stop motions

- EG (closed end)
- EO (open end)

2 Dimensions

2.1 The dimensions for drop wires type MG and MO for mechanical and electromechanical warp stop motions are given in figure 1 and table 1.

2.2 The dimensions for drop wires type EG and EO for electrical warp stop motions are given in figure 2 and table 1.

3 Designation

The drop wires for warp stop motions as specified in this International Standard shall be designated as follows, in the order given:

a) the block descriptor, "drop wire";

b) a reference to this International Standard, "ISO 441";

c) the type of warp stop motion (M or E);

d) the type of end (G or O);

e) the thread eye shape;

f) the length l of the drop wire, in millimetres;

g) the width b of the drop wire, in millimetres;

h) the thickness e of the drop wire, in millimetres.

EXAMPLES

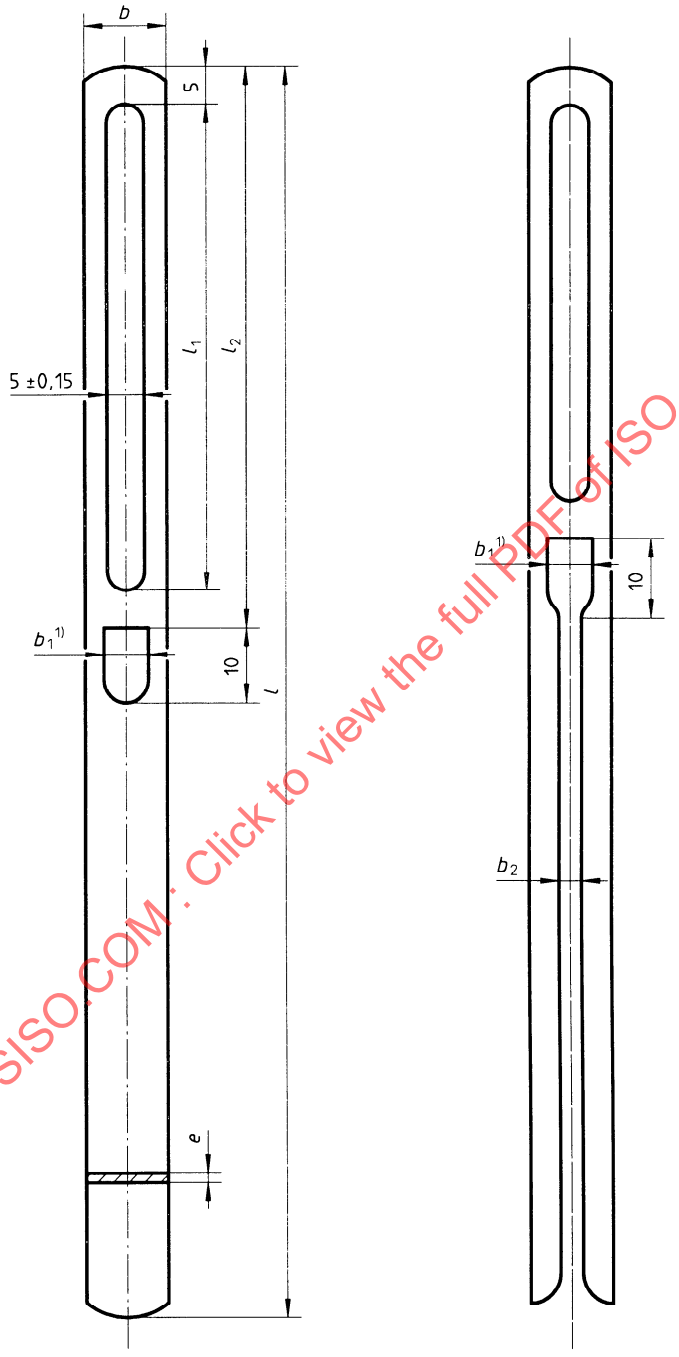
A drop wire for mechanical or electromechanical warp stop motion with closed end (MG) and U-shaped eye, having a length of 145 mm, a width of 11 mm and a thickness of 0,3 mm is designated as follows:

Drop wire ISO 441 - MGU 145 × 11 × 0,3

A drop wire for electrical warp stop motion with closed end (EG) and U-shaped eye, having a length of 165 mm, a width of 11 mm and a thickness of 0,4 mm is designated as follows:

Drop wire ISO 441 - EGU 165 × 11 × 0,4

Dimensions in millimetres



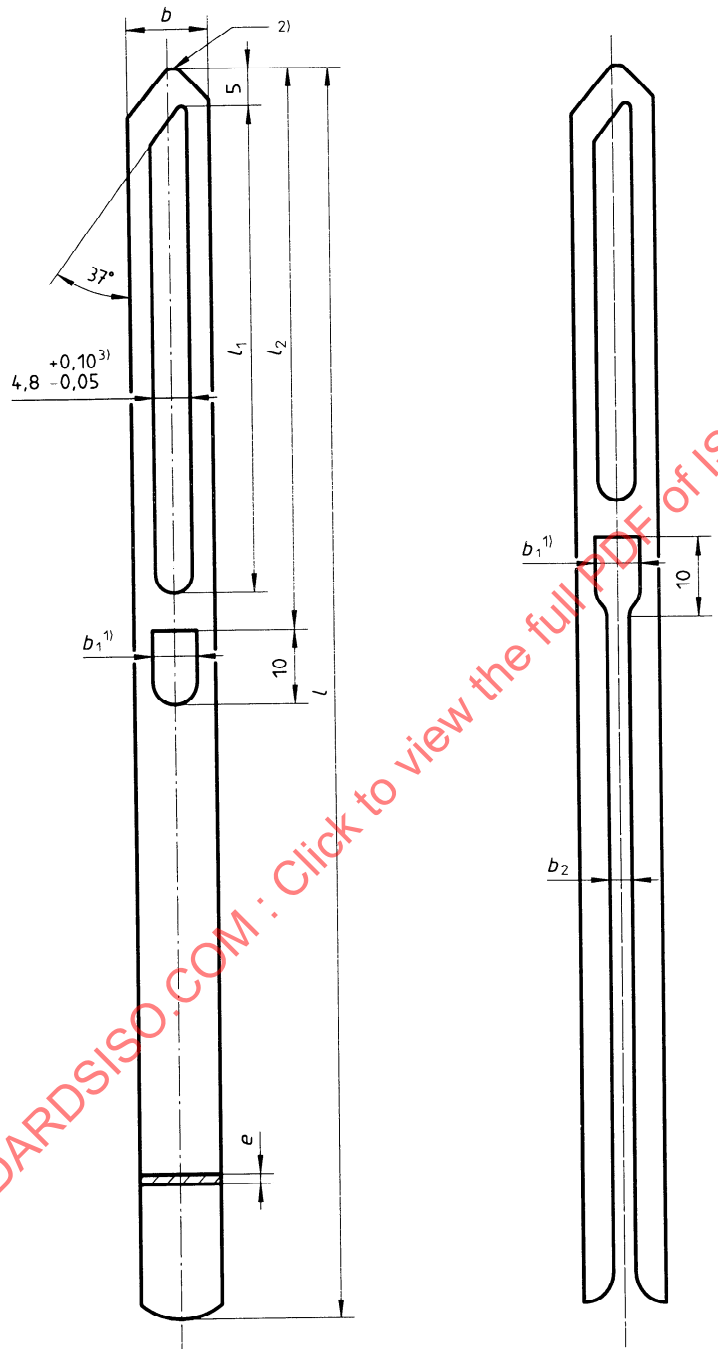
a) Closed-end type MG with U-shaped eye

b) Open-end type MO with U-shaped eye

1) Or width of another shape of thread eye, for example round eye, type R. The upper edge of the eye shape should be at the same level as the upper edge of a U-shaped thread eye.

Figure 1

Dimensions in millimetres



a) Closed-end type EG with U-shaped eye

b) Open-end type EO with U-shaped eye

1) Or width of another shape of thread eye, for example round eye, type R. The upper edge of the thread eye should be at the same level as the upper edge of a U-shaped thread eye.

2) The top end of the drop wire may be rounded at the option of the manufacturer.

3) For b = 7 mm, the width of the upper slot is $4{,}5^{+0{,}10}_{-0{,}05}$ mm.

Figure 2