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Textile machinery and accessories — Drop wires for warp stop motions for weaving machines with automatic drawing-in

*Matériel pour l'industrie textile — Lamelles pour casse-chaînes pour
machines à tisser avec rentrée automatique des lamelles*

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Reference number
ISO 1150:1997(E)

ISO 1150:1997(E)**Foreword**

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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 1150 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 1150:1978), which has been technically revised.

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Textile machinery and accessories — Drop wires for warp stop motions for weaving machines with 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 weaving machines.

This International Standard applies only to drop wires suited for Uster and Reed Chatwood¹⁾ automatic drawing-in systems. These drop wires are always closed with U-shaped thread eye and are distinguished as follows:

- a) for mechanical and electromechanical warp stop motions
 - M1 (for the Uster drawing-in system)
 - M2 (for the Reed Chatwood drawing-in system)
 - M3 (for the Uster and Reed Chatwood drawing-in systems)
- b) for electrical warp stop motions
 - E1 (for the Uster drawing-in system)
 - E2 (for the Reed Chatwood drawing-in system)
 - E3 (for the Uster and Reed Chatwood drawing-in systems)

2 Dimensions

2.1 The dimensions of drop wire types M1, M2 and M3 for mechanical and electromechanical warp stop motions and suitable for the automatic drawing-in process are given in figure 1 and table 1.

2.2 The dimensions of drop wire types E1, E2 and E3 for electrical warp stop motions and suitable for the automatic drawing-in process are given in figure 2 and table 1.

¹⁾ This information is given for the convenience of users of this International Standard and does not constitute an endorsement by ISO of the systems named. Equivalent systems may be used if they can be shown to lead to the same results.

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 1150";
- c) the type of warp stop motion (M or E);
- d) the type of automatic drawing-in system(s) (1, 2 or 3);
- e) the length l of the drop wire, in millimetres;
- f) the width of the drop wire, in millimetres, i.e. 11 mm;
- g) the thickness e of the drop wire, in millimetres.

EXAMPLES

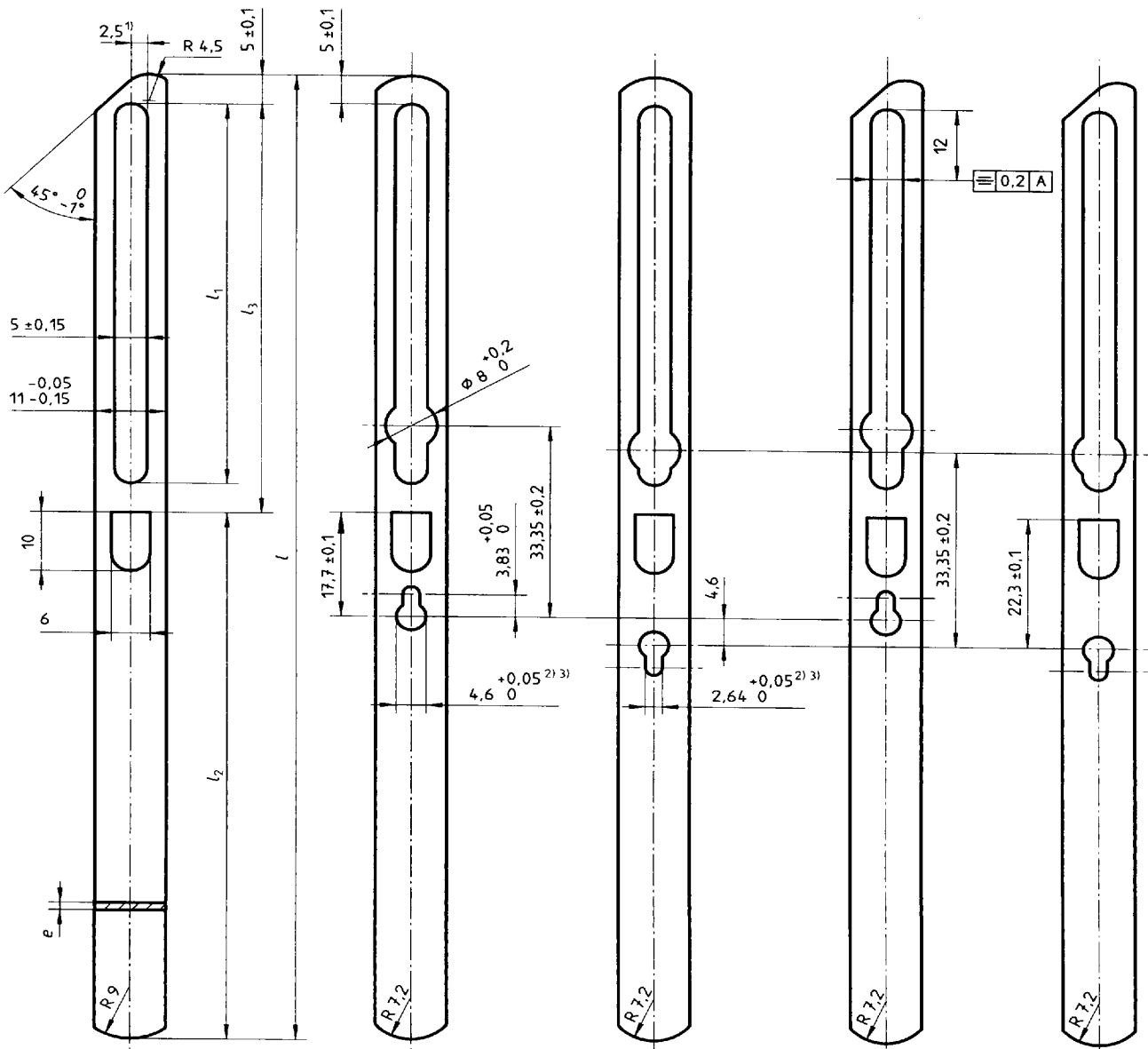
A drop wire for mechanical or electromechanical warp stop motion suitable for Uster and Reed Chatwood automatic drawing-in systems (M3), with a length of 145 mm, a width of 11 mm and a thickness of 0,3 mm is designated as follows:

Drop wire ISO 1150 - M3 145 × 11 × 0,3

A drop wire for electrical warp stop motion suitable for an Uster (E1) automatic drawing-in system, with a length of 165 mm, a width of 11 mm and a thickness of 0,2 mm is designated as follows:

Drop wire ISO 1150 - E1 165 × 11 × 0,2

Dimensions in millimetres



a) Type M1 - Chamfered top for the Uster automatic drawing-in system

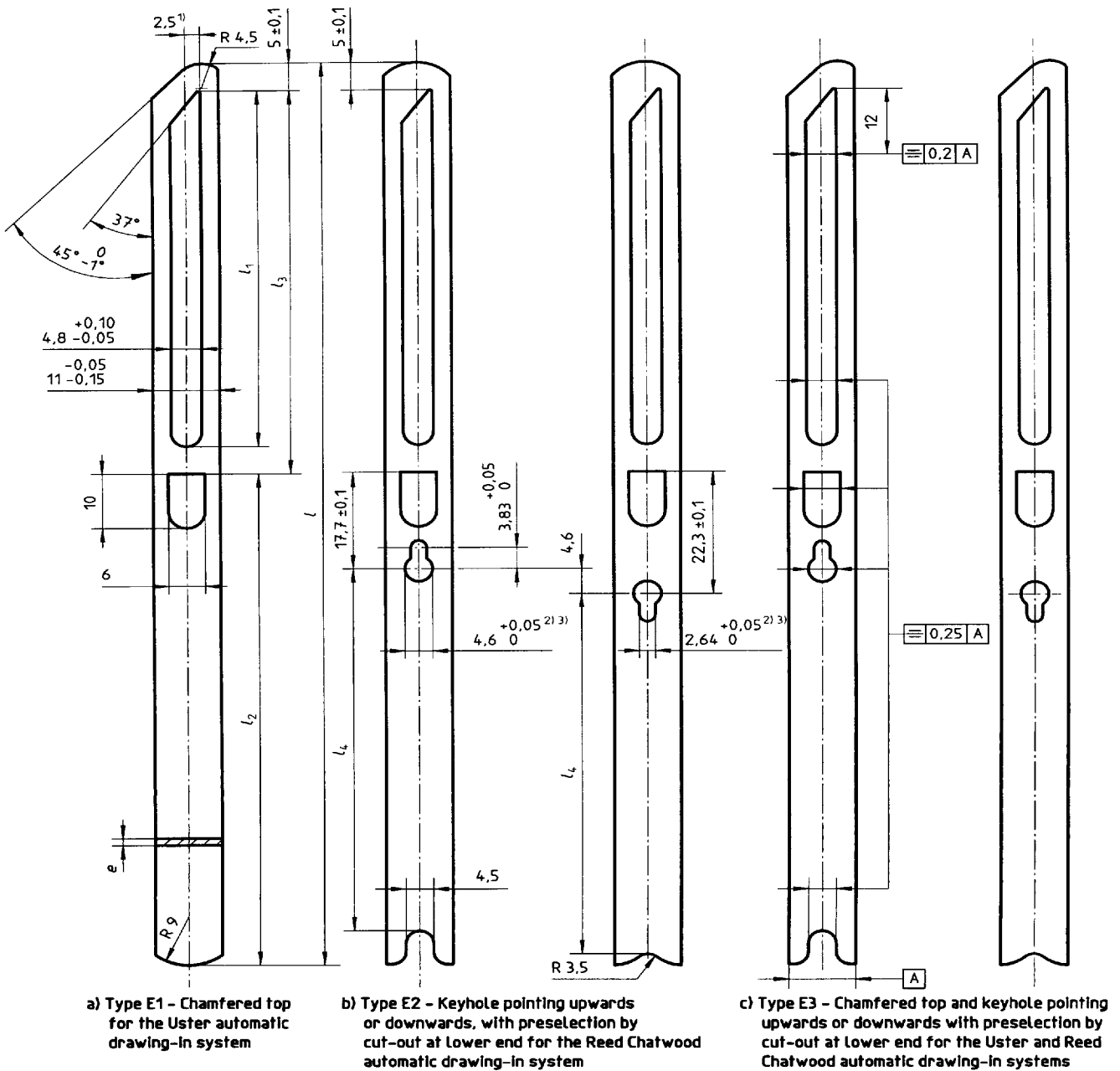
b) Type M2 - Keyhole pointing upwards or downwards for the Reed Chatwood automatic drawing-in system

c) Type M3 - Chamfered top and keyhole pointing upwards or downwards for the Uster and Reed Chatwood automatic drawing-in systems

- 1) If requested by the purchaser, the drop wires shall be supplied with the chamfered tops alternating.
- 2) Half of the drop wires in any delivery should have keyholes pointing upwards and the other half pointing downwards. If requested by the purchaser, the drop wires shall be supplied with the keyholes alternating.
- 3) For drop wires thicker than 0,4 mm a higher value of this tolerance may be applied in exceptional cases.

Figure 1

Dimensions in millimetres



1) If requested by the purchaser, the drop wires shall be supplied with the chamfered tops alternating.
 2) Half of the drop wires in any delivery should have keyholes pointing upwards and the other half pointing downwards. If requested by the purchaser, the drop wires shall be supplied with the keyholes alternating.
 3) For drop wires thicker than 0,4 mm a higher value of this tolerance may be applied in exceptional cases.

Figure 2

Table 1 — Dimensions for drop wire types M1, M2, M3 and E1, E2, E3

Length l $\pm 0,15$ mm	Thickness e mm	Length of upper slot l_1 mm	Length of lower part to top of thread eye l_2 mm	Length from top of upper slot to top of thread eye l_3 $\pm 0,1$ mm	Distance from base of lower cut-out to centre of keyhole l_4 $\pm 0,1$ mm	Mass g
145	0,2	65	70	70	45,95	1,9
	0,3					2,9
	0,4					3,8
	0,5					4,8
165	0,2	65	90	70	65,95	2,2
	0,3					3,3
	0,4					4,4
	0,5					5,5

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Descriptors: textile machinery, weaving machinery, warp stop motions, drop wires, dimensions, dimensional tolerances.

Price based on 5 pages
