

INTERNATIONAL
STANDARD

ISO
1150

Second edition
1997-01-15

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

iTeh STANDARD PREVIEW

(standards.iteh.ai)

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

ISO 1150:1997

<https://standards.iteh.ai/catalog/standards/sist/7b807e31-2e69-4622-a38a-aa90689eb2be/iso-1150-1997>



Reference number
ISO 1150:1997(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 1150 was prepared by Technical Committee ISO/TC 72, *Textile machinery*, Subcommittee SC 3, *Machinery for fabric manufacture*.

iteh STANDARD PREVIEW
(standards.iteh.ai)

This second edition cancels and replaces the first edition (ISO 1150:1978), which has been technically revised.

[ISO 1150:1997](#)

<https://standards.iteh.ai/catalog/standards/sist/7b807e31-2e69-4622-a38a-aa90689eb2be/iso-1150-1997>

© ISO 1997

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Organization for Standardization

Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

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:

- iTeh STANDARD PREVIEW**
(standards.iteh.ai)
ISO 1150:1997
<https://standards.iteh.ai/catalog/standards/sist/7b807e31-2e69-4622-a38a-aa90689eb2be/iso-1150-1997>
- 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

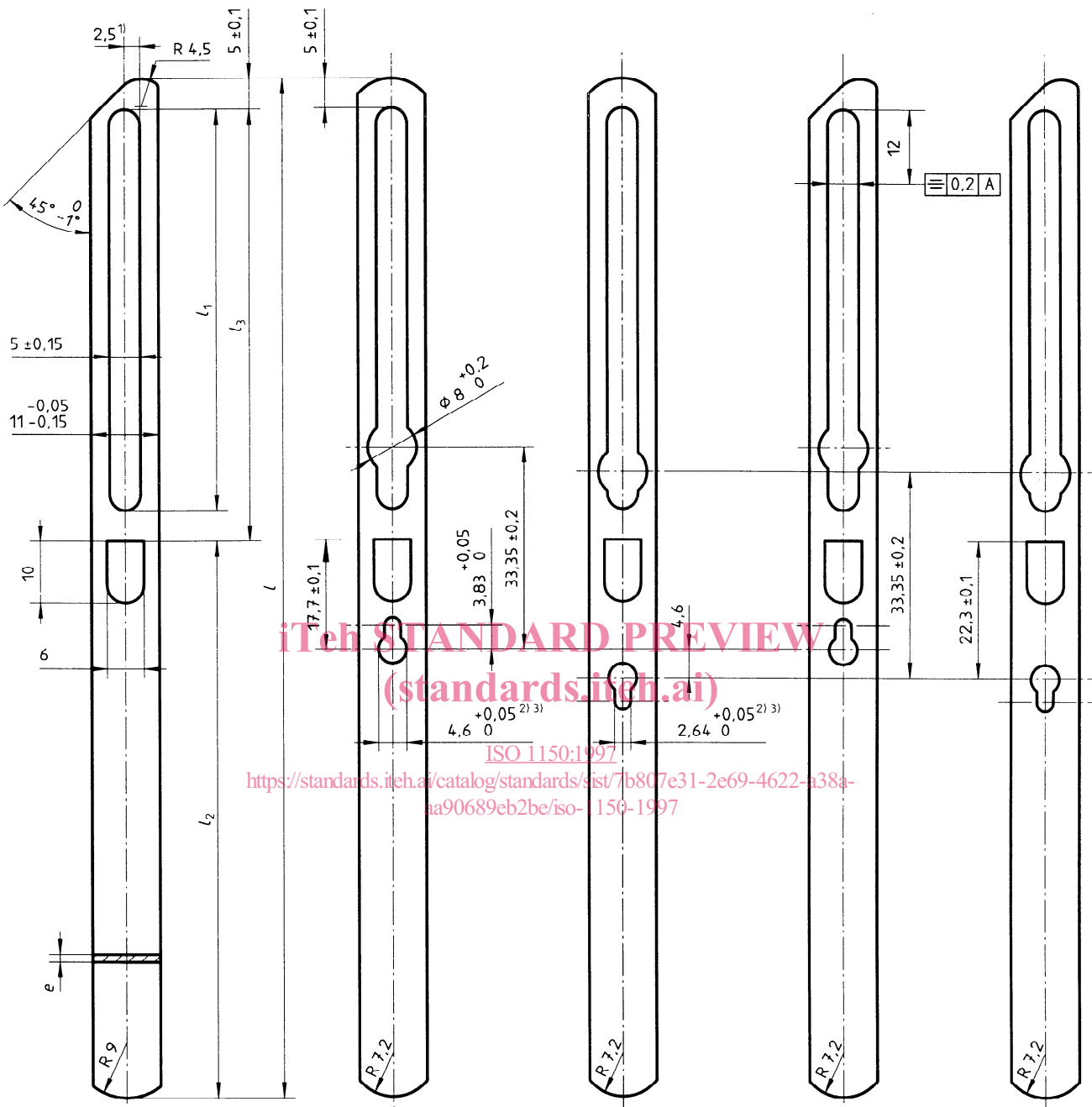
A drop wire for mechanical or electromechanical warp stop motion suitable for Uster and Reed Chatwood automatic drawing-in systems (M3), with a length of 145 mm, a width of 11 mm and a thickness of 0,3 mm is designated as follows:

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

ITeH STANDARD PREVIEW
(standards.iteh.ai)
<https://standards.iteh.ai/catalog/standards/sist/7b807e31-2e69-4622-a38a-aa90689eb2be/iso-1150-1997>



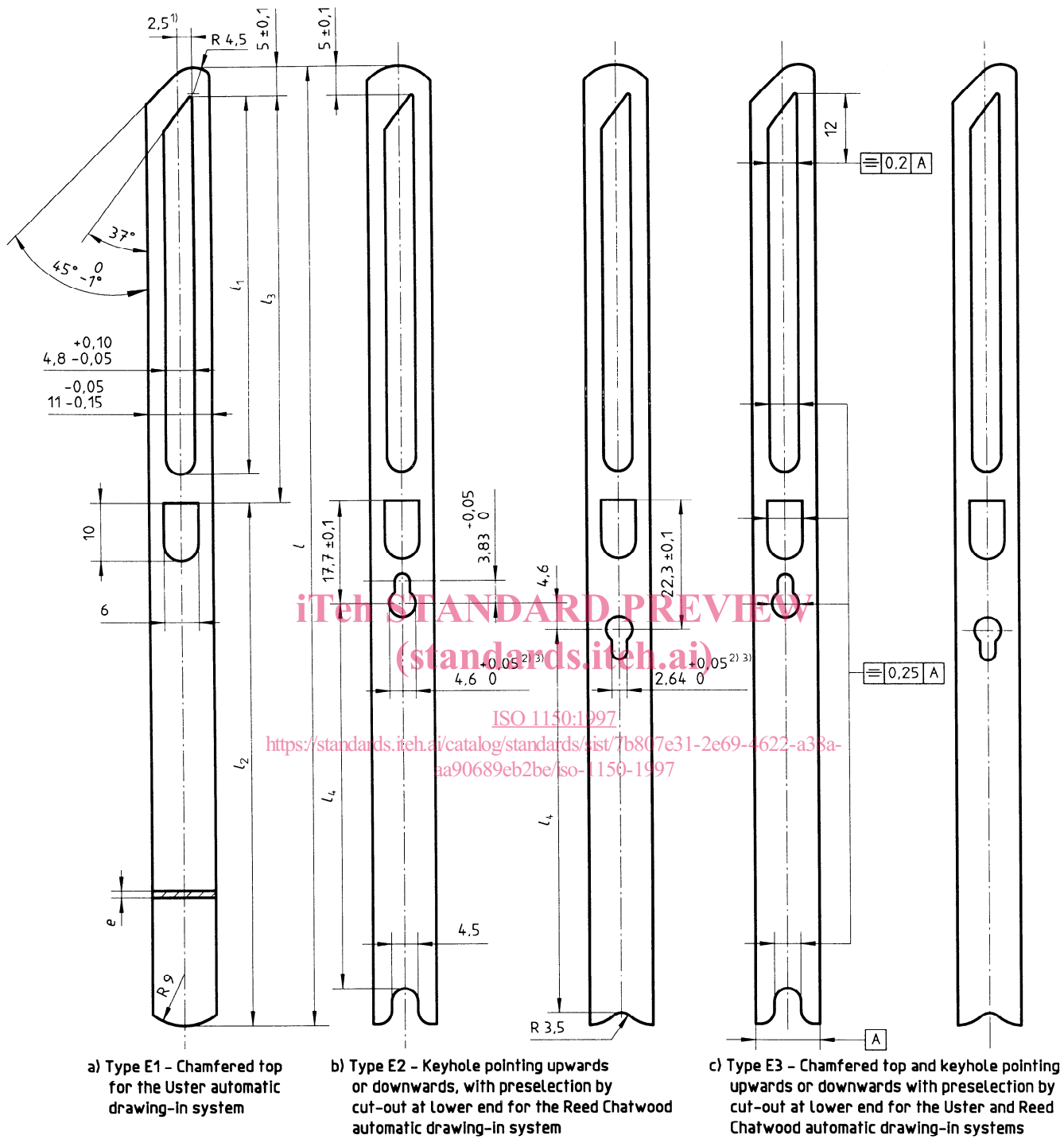
a) Type M1 - Chamfered top for the Uster automatic drawing-in system

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



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

iTeh STANDARD PREVIEW
(standards.iteh.ai)

ISO 1150:1997

<https://standards.iteh.ai/catalog/standards/sist/7b807e31-2e69-4622-a38a-aa90689eb2be/iso-1150-1997>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

ISO 1150:1997

<https://standards.iteh.ai/catalog/standards/sist/7b807e31-2e69-4622-a38a-aa90689eb2be/iso-1150-1997>

ICS 59.120.30

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

Price based on 5 pages
