

INTERNATIONAL
STANDARD

ISO
10787-3

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**Textile machinery and accessories —
Heald frames —**

Part 3:
Guides for heald frames

*Matériel pour l'industrie textile — Cadres de lisses —
Partie 3: Guides pour cadres de lisses*



Reference number
ISO 10787-3:1994(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 10787-3 was prepared by Technical Committee ISO/TC 72, *Textile machinery and allied machinery and accessories*, Subcommittee SC 3, *Machinery for fabric manufacture*.

ISO 10787 consists of the following parts, under the general title *Textile machinery and accessories — Heald frames*:

- Part 1: *Heald-carrying rod fixed to the frame stave by rod support — Coordinated dimensions*
- Part 2: *Heald-carrying rod fixed directly on the frame stave — Coordinated dimensions*
- Part 3: *Guides for heald frames*

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Textile machinery and accessories — Heald frames —

Part 3: Guides for heald frames

1 Scope

This part of ISO 10787 specifies the dimensions of guides for heald frames, which are used for supplemental guidance of heald frames.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 10787. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 10787 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 2768-1:1989, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications.*

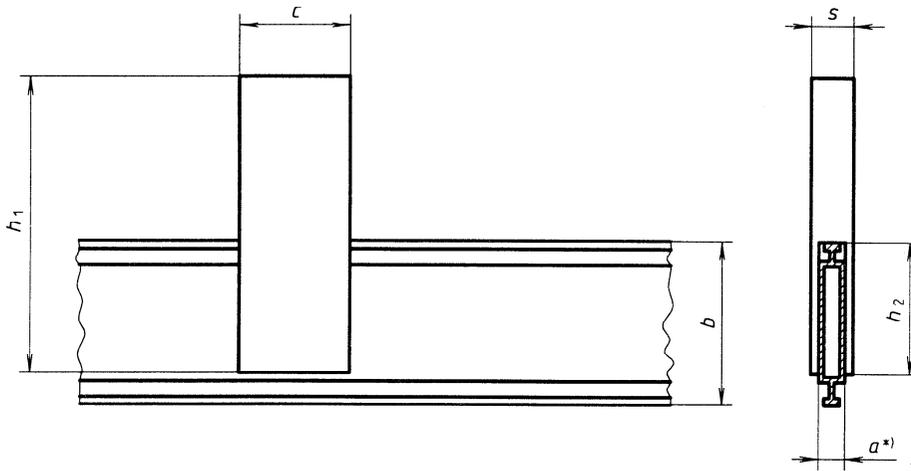
ISO 10787-1:1994, *Textile machinery and accessories — Heald frames — Part 1: Heald-carrying rod fixed to the frame stave by rod support — Coordinated dimensions.*

ISO 10787-2:1994, *Textile machinery and accessories — Heald frames — Part 2: Heald-carrying rod fixed directly on the frame stave — Coordinated dimensions.*

3 Dimensions

The dimensions and specifications of heald frame guides are given in figure 1 and tables 1 to 3.

Tolerances which are not specified are given in ISO 2768-1, tolerance class medium.



*) Dimension in accordance with ISO 10787-1 or ISO 10787-2.

Figure 1 — Heald frame guide

Table 1 — Heald frame guide thickness
Dimensions in millimetres

Pitch of harness, <i>t</i> , according to ISO 10787-1 ¹⁾	12	(14)	(16)	18	24
Thickness <i>s</i> of guide for heald frame	11,8	13,8	15,8	17,8	23,8

1) Dimensions shown in parentheses should be avoided for new constructions.

Table 2 — Heald frame guide height and width
Dimensions in millimetres

Height of guide for heald frame <i>h</i> ₁ ± 1	Width of guide for heald frame <i>c</i> ± 1		Distance between end loops of healds <i>L</i>
	fixed	removable	
140	60	80	<i>L</i> ≤ 300
160			300 < <i>L</i> ≤ 330
180			330 < <i>L</i> ≤ 380
200			380 < <i>L</i> ≤ 420
230			420 < <i>L</i> ≤ 480
260			<i>L</i> > 480

Table 3 — Height of heald frame guide recess

Dimensions in millimetres

Height of guide recess h_2 ± 1	Height of frame stave in accordance with	
	ISO 10787-1	ISO 10787-2
	b nom.	
46	—	84
58	72	96
70	84	—
82	96	120

4 Designation

The designation of a heald frame guide shall comprise, in the order given, the following:

a) "Guide";

- b) reference to this part of ISO 10787, i.e. 10787-3;
- c) height of the guide, h_1 , in millimetres;
- d) width of the guide, c , in millimetres;
- e) pitch of the harness, t , in millimetres;
- f) height of the guide recess, h_2 , and thickness of frame stave, a , in accordance with ISO 10787-1 and ISO 10787-2, in millimetres.

EXAMPLE

A guide for heald frame of height $h_1 = 160$ mm and width $c = 60$ mm, having pitch of harness $t = 12$ mm, height of guide recess $h_2 = 46$ mm and thickness of frame stave $a = 9$ mm shall be designated as follows:

Guide ISO 10787-3 - 160 × 60 - 12 - 46 × 9

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