

INTERNATIONAL STANDARD

ISO 15228

First edition
2005-06-15

Textile machinery and accessories — Profile reeds for air jet weaving machines — Dimensions

*Matériel pour l'industrie textile et accessoires — Peignes profilés pour
machines à tisser à insertion de la trame par jet d'air — Dimensions*



Reference number
ISO 15228:2005(E)

© ISO 2005

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

© ISO 2005

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 either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 15228 was prepared by Technical Committee ISO/TC 72, *Textile machinery and machinery for dry-cleaning and industrial laundering*, Subcommittee SC 3, *Machinery for fabric manufacturing including preparatory machinery and accessories*.

Textile machinery and accessories — Profile reeds for air jet weaving machines — Dimensions

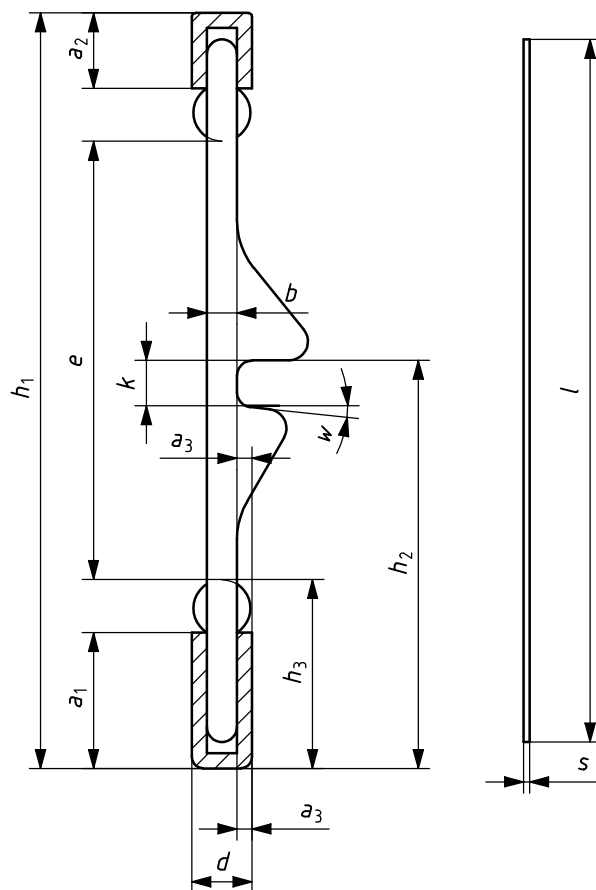
1 Scope

This International Standard specifies the dimensions and designation for reeds used for air jet weaving machines.

2 Dimensions

The reed need not be identical to Figure 1.

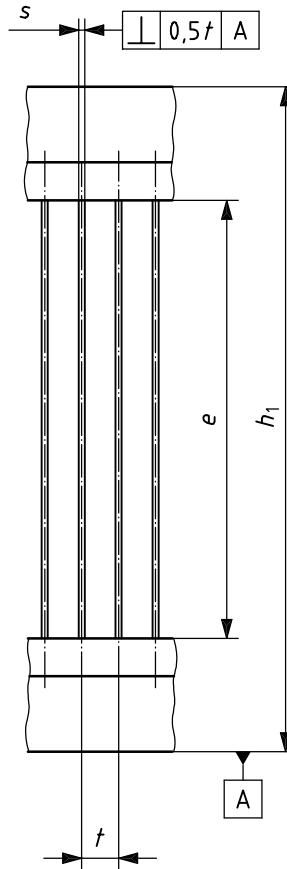
The indicated dimensions given in Table 1 and the tolerance of perpendicularity of dents according to Figure 2 shall be met.



Key

- | | | | |
|-------|---|-------|--|
| a_1 | height of bottom profile | h_2 | distance from bottom of bound to top of air channel |
| a_2 | height of top profile | h_3 | height of bottom profile and spring binding |
| a_3 | distance from front edge of bottom profile to base of air channel | k/w | width of air channel to inclination angle of bottom nose |
| b | width of dents | l | length of dents |
| d | thickness of bottom profile | s | thickness of dents |
| e | inner height | t | distance of dents |
| h_1 | total height | w | inclination angle of bottom nose |

Figure 1 — Reed

**Key**

- e inner height of reed
- h_1 total height of reed
- s thickness of dents
- t distance of dents

Figure 2 — Tolerance of perpendicularity of dents in relation to base of reed

Table 1 — Dimensions and tolerances of reeds

Dimensions in millimetres

a_1	a_2	a_3	b	d	h_1	h_2	h_3	k/w	s	
									Nominal dimension ^b	Tolerance ^a
$\pm 0,2$	$\pm 0,2$	$\pm 0,1$	$\pm 0,03$	$\pm 0,2$		$\pm 0,1$	± 1	$\pm 0,03/\pm 0^\circ 0'15''$		
18, 20, 22	10, 12, 16	2	4	8	100 to 122	51, 54, 56, 57	$a_1 + 7$	5,5/12°, 6/6°, 6/0°	0,12 0,14 0,16 0,18 0,20	$\pm 0,005$
									0,22 0,24 0,26 0,28 0,31 0,34	$\pm 0,007$
									0,37 0,40 0,45	$\pm 0,01$
									0,50 0,60 0,70 0,80	$\pm 0,015$
Shape and dimensions of end-posts shall be considered.										
^a Allowed tolerances for the dents; smaller tolerances of the dents may be necessary within a reed.										
^b Nominal dimensions may differ, if required.										

3 Designation

The designation shall include reference to this International Standard, followed by the value of dimensions a_1 , a_2 , h_1 , h_2 , k/w and s , in millimetres, as specified in Table 1.

EXAMPLE Designation of a reed for air jet weaving machines with $a_1 = 18$ mm, $a_2 = 10$ mm, $h_1 = 122$ mm, $h_2 = 56$ mm $k/w = 5,5$ mm/12°, and $s = 0,22$ mm:

Reed ISO 15228 - 18 - 10 - 122 - 56 - 5,5/12 - 0,22

ICS 59.120.30

Price based on 4 pages