
**Spring-type straight pins — Slotted, light
duty**

*Goupilles cylindriques creuses, dites goupilles élastiques — Série
mince*

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[ISO 13337:2009](https://standards.iteh.ai/catalog/standards/iso/8a552e3e-2bf8-4ef2-80ae-819a977412a6/iso-13337-2009)

<https://standards.iteh.ai/catalog/standards/iso/8a552e3e-2bf8-4ef2-80ae-819a977412a6/iso-13337-2009>



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.

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[ISO 13337:2009](https://standards.iteh.ai/catalog/standards/iso/8a552e3e-2bf8-4ef2-80ae-819a977412a6/iso-13337-2009)

<https://standards.iteh.ai/catalog/standards/iso/8a552e3e-2bf8-4ef2-80ae-819a977412a6/iso-13337-2009>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2009

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 13337 was prepared by Technical Committee ISO/TC 2, *Fasteners*, Subcommittee SC 10, *Product standards for fasteners*.

This second edition cancels and replaces the first edition (ISO 13337:1997), which has been technically revised.

iTeh Standards
(<https://standards.itih.ai>)
Document Preview

[ISO 13337:2009](https://standards.itih.ai/catalog/standards/iso/8a552e3e-2bf8-4ef2-80ae-819a977412a6/iso-13337-2009)

<https://standards.itih.ai/catalog/standards/iso/8a552e3e-2bf8-4ef2-80ae-819a977412a6/iso-13337-2009>

Spring-type straight pins — Slotted, light duty

1 Scope

This International Standard specifies the characteristics of slotted spring-type straight pins, made of steel or of austenitic or martensitic stainless steel, light duty, with nominal diameter, d_1 , from 2 mm to 50 mm inclusive.

NOTE The nominal diameters have been chosen in such a way that pins can be fitted one into the other or combined with pins, heavy duty, in accordance with ISO 8752.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3269, *Fasteners — Acceptance inspection*

ISO 4042, *Fasteners — Electroplated coatings*

ISO 6507-1, *Metallic materials — Vickers hardness test — Part 1: Test method*

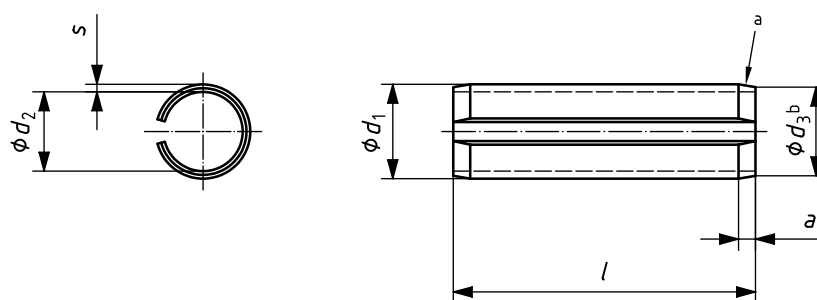
ISO 8749, *Pins and grooved pins — Shear test*

3 Dimensions

ISO 13337:2009

<https://standards.iteh.ai/catalog/standards/iso/8a552e3e-2bf8-4ef2-80ac-819a977412a6/iso-13337-2009>

See Figure 1 and Table 1.



^a For slotted spring-type straight pins with a nominal diameter $d_1 \geq 10$ mm, a single chamfer configuration is optional at the discretion of the supplier.

^b $d_3 < d_{1, \text{nom}}$

NOTE For non-interlocking slotted spring-type straight pins (slot type N), see Clauses 5 and 6.

Figure 1 — Slotted spring-type straight pins, light duty

Table 1 — Dimensions

d_1	nom.		2	2,5	3	3,5	4	4,5	5	6	8	10	12
	before mounting	max.	min.	2,4	2,9	3,5	4,0	4,6	5,1	5,6	6,7	8,8	10,8
d_2	before mounting ^a		1,9	2,3	2,7	3,1	3,4	3,9	4,4	4,9	7,0	8,5	10,5
a	max.		0,4	0,45	0,45	0,5	0,7	0,7	0,7	0,9	1,8	2,4	2,4
	min.		0,2	0,25	0,25	0,3	0,5	0,5	0,5	0,7	1,5	2,0	2,0
s			0,2	0,25	0,3	0,35	0,5	0,5	0,5	0,75	0,75	1,0	1,0
Minimum shear strength, double ^b kN			1,5	2,4	3,5	4,6	8	8,8	10,4	18	24	40	48
l^c													
nom.	min.	max.											
4	3,75	4,25											
5	4,75	5,25											
6	5,75	6,25											
8	7,75	8,25											
10	9,75	10,25											
12	11,5	12,5											
14	13,5	14,5											
16	15,5	16,5											
18	17,5	18,5											
20	19,5	20,5											
22	21,5	22,5											
24	23,5	24,5											
26	25,5	26,5											
28	27,5	28,5											
30	29,5	30,5											
32	31,5	32,5											
35	34,5	35,5											
40	39,5	40,5											
45	44,5	45,5											
50	49,5	50,5											
55	54,25	55,75											
60	59,25	60,75											
65	64,25	65,75											
70	69,25	70,75											
75	74,25	75,75											
80	79,25	80,75											
85	84,25	85,75											
90	89,25	90,75											
95	94,25	95,75											
100	99,25	100,75											
120	119,25	120,75											
140	139,25	140,75											
160	159,25	160,75											
180	179,25	180,75											
200	199,25	200,75											

^a For reference only.

^b Applies to steel and martensitic corrosion resistant steel products only. For austenitic stainless pins, no double shear strength values are specified.

^c For nominal lengths above 200 mm, steps of 20 mm.