INTERNATIONAL STANDARD

ISO 8752

Third edition
2009-06-15

Spring-type straight pins — Slotted, heavy duty

Goupilles cylindriques creuses, dites goupilles élastiques — Série épaisse

Reference number
ISO 8752:2009(E)

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Published in Switzerland

Foreword

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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 8752 was prepared by Technical Committee ISO/TC 2, *Fasteners*, Subcommittee SC 10, *Product standards for fasteners*.

This third edition cancels and replaces the second edition (ISO 8752:1997), which has been technically revised.

Spring-type straight pins — Slotted, heavy 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, heavy duty, with nominal diameter, d_1, from 1 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, light duty, in accordance with ISO 13337.

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*

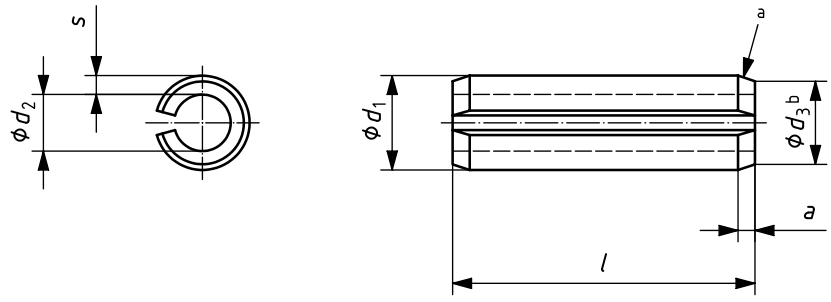
ISO 4042, *Fasteners — Electroplated coatings*

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

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

3 Dimensions

See Figure 1 and Table 1.



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

b $d_3 < d_{1,\,nom}$.

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

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

Table 1 — Dimensions

		nom.	**1**	**1,5**	**2**	**2,5**	**3**	**3,5**	**4**	**4,5**	**5**	**6**	**8**	**10**
d_1	before mounting	max.	1,3	1,8	2,4	2,9	3,5	4,0	4,6	5,1	5,6	6,7	8,8	10,8
		min.	1,2	1,7	2,3	2,8	3,3	3,8	4,4	4,9	5,4	6,4	8,5	10,5
d_2	before mounting[a]		0,8	1,1	1,5	1,8	2,1	2,3	2,8	2,9	3,4	4,0	5,5	6,5
a		max.	0,35	0,45	0,55	0,6	0,7	0,8	0,85	1,0	1,1	1,4	2,0	2,4
		min.	0,15	0,25	0,35	0,4	0,5	0,6	0,65	0,8	0,9	1,2	1,6	2,0
s			0,2	0,3	0,4	0,5	0,6	0,75	0,8	1,0	1,0	1,2	1,5	2,0
Minimum shear strength, double[b] kN			0,7	1,58	2,82	4,38	6,32	9,06	11,24	15,36	17,54	26,04	42,76	70,16
	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												

Range of

[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.