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INTERNATIONAL STANDARD

ISO 8734

Second edition 1997-11-15

Parallel pins, of hardened steel and martensitic stainless steel (Dowel pins)

Goupilles cylindriques en acier trempé et en acier inoxydable martensitique



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 8734 was prepared by Technical Committee ISO/TC 2, Fasteners.

This second edition cancels and replaces the first edition (ISO 8734:1987), which has been technically revised.

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Parallel pins of hardened steel and martensitic stainless steel (Dowel pins)

1 Scope

This International Standard specifies the characteristics of parallel pins (dowel pins) of steel, through hardened or case hardened and martensitic stainless steel with nominal diameters, *d*, from 1 mm to 20 mm inclusive.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard 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.

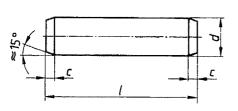
ISO 3269:1988, Fasteners – Acceptance inspection.

ISO 3506-1:1997, Corrosion-resistant stainless steel fasteners - Part 1: Bolts, screws and studs.

ISO 4042:-1, Fasteners - Electroplated coatings.

3 Dimensions

See figure 1 and table 1.



1) Radius and dimpled pin end permissible

Optional end shape at the manufacturer's discretion

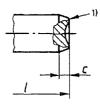


Figure 1

¹⁾ To be published. (Revision of ISO 4042:1989)

Table 1 — Dimensions

	Dimer	nsions	in mill	imetres
8	10	12	16	20
1,6	2	2,5	3	3,5

d		m6"	1	1,5	2	2,5	3	4	5	6	8	10	12	16	20
С		*	0,2	0,3	0,35	0,4	0,5	0,63	0,8	1,2	1,6	2	2,5	3	3,5
l ²⁾															
nom.	min.	max.							<u> </u>			***************	·		
3	2,75	3,25													
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			-		Rai	nge							
22	21,5	22,5													
24	23,5	24,5													
26	25,5	26,5			'				of			'			
28	27,5	28,5				:									
30	29,5	30,5									A1-100A1,				
32	31,5	32,5								со	' mmerc	ial			
35	34,5	35,5													
40	39,5	40,5													
45	44,5	45,5										leng	ths		
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													

¹⁾ Other tolerances as agreed between customer and supplier.

²⁾ For nominal lengths above 100 mm, steps of 20 mm.

4 Requirements and reference International Standards

See table 2.

Table 2 — Requirements and reference International Standards

		Martensitic stainless steel						
		C1 in accordance with ISO 3506-1						
	Туре А	Тур						
	pin through hardened	pin case						
	Che							
		either	or	hardened and				
Material ¹⁾	C 0,95 to 1,1 Si 0,15 to 0,35 Mn 0,25 to 0,4 P 0,03 max. S 0,025 max. Cr 1,35 to 1,65	C 0,06 to 0,13 Si 0,1 to 0,4 Mn 0,25 to 0,6 P 0,025 max. S 0,05 max.	C 0,15 max. Si 0,10 max. Mn 0,9 to 1,3 P 0,07 max. S 0,15 to 0,35 Pb 0,15 to 0,35	tempered to a hardness of 460 HV30 to 560 HV30				
	Hardness: 550 HV30 to 650 HV30	Surface hardness: 600						
Surface	Plain, i.e. pins to be supp lubricant, unless otherwise supplier.	Plain, i.e. pins to be supplied in natural finish.						
	If pins are surface coated a be employed to avoid hy plated or phosphate-coate after plating or coating to although freedom from hy teed (see ISO 4042).							
	All tolerances shall apply p							
Surface roughness	$R_{\rm a} \leq 0.8 \mu {\rm m}$							
Workmanship	Pins shall be free of irregul							
workmansnip	No burrs shall appear on a							
Acceptability	The acceptance procedure is covered in ISO 3269.							

5 Designation

EXAMPLE 1

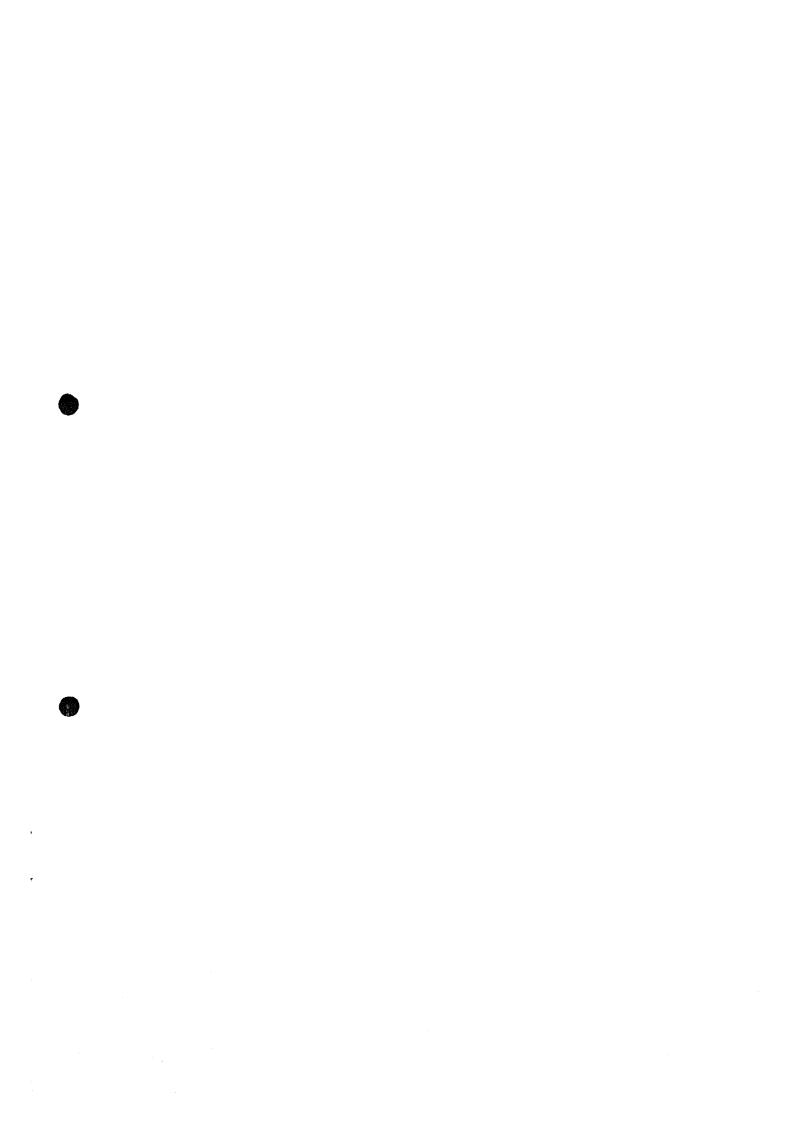
A through hardened steel parallel pin type A, with nominal diameter d = 6 mm and nominal length l = 30 mm is designated as follows:

Parallel pin ISO $8734 - 6 \times 30 - A - St$

EXAMPLE 2

A martensitic stainless steel parallel pin of grade C1, with nominal diameter d = 6 mm and nominal length l = 30 mm is designated as follows:

Parallel pin ISO 8734 - 6 × 30 - C1



ICS 21.060.50

Descriptors: fasteners, steel products, pins (mechanics), straight pins, specifications, characteristics, dimensions, designation.

Price based on 4 pages