

INTERNATIONAL STANDARD

ISO
8733

Second edition
1997-11-15

Parallel pins with internal thread, of unhardened steel and austenitic stainless steel

*Goupilles cylindriques à trou taraudé en acier non trempé et
en acier inoxydable austénitique*

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Reference number
ISO 8733:1997(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 8733 was prepared by Technical Committee ISO/TC 2, *Fasteners*.

This second edition cancels and replaces the first edition (ISO 8733:1986), which has been technically revised.

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Parallel pins with internal thread of unhardened steel and austenitic stainless steel

1 Scope

This International Standard specifies the characteristics of parallel pins with internal thread of unhardened steel and austenitic stainless steel with nominal diameters d_1 from 6 mm to 50 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 965-2:—¹⁾, *ISO general purpose metric screw threads – Tolerances – Part 2: Limits of sizes for general purpose bolt and nut thread – Medium quality.*

ISO 3269:1988, *Fasteners – Acceptance inspection.*

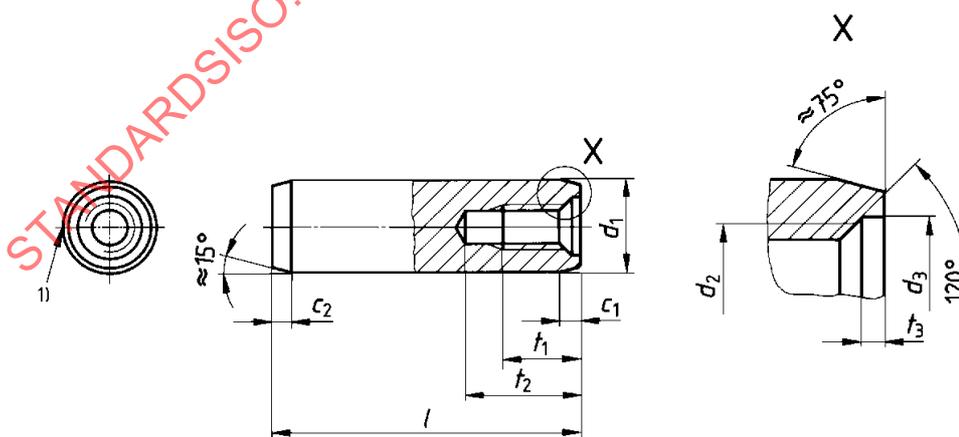
ISO 3506-1:1997, *Corrosion-resistant stainless steel fasteners – Part 1: Bolts, screws and studs.*

ISO 4042:—²⁾, *Fasteners – Electroplated coatings.*

ISO 9717:1990, *Phosphate conversion coatings for metals – Method of specifying requirements.*

3 Dimensions

See figure 1 and table 1.



1) Slight flat or small groove at the manufacturer's discretion

Figure 1

1) To be published. (Revision of ISO 965-2:1980)

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

Table 1 — Dimensions

Dimensions in millimetres

d_1	$m6^{1)}$	6	8	10	12	16	20	25	30	40	50
c_1	≈	0,8	1	1,2	1,6	2	2,5	3	4	5	6,3
c_2	≈	1,2	1,6	2	2,5	3	3,5	4	5	6,3	8
d_2		M4	M5	M6	M6	M8	M10	M16	M20	M20	M24
$P^{2)}$		0,7	0,8	1	1	1,25	1,5	2	2,5	2,5	3
d_3		4,3	5,3	6,4	6,4	8,4	10,5	17	21	21	25
t_1		6	8	10	12	16	18	24	30	30	36
t_2	min.	10	12	16	20	25	28	35	40	40	50
t_3		1	1,2	1,2	1,2	1,5	1,5	2	2	2,5	2,5
nom.	$j^{3)}$ min. max.										
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										

1) Other tolerances as agreed between customer and supplier.

2) P is the pitch of the thread.

3) For nominal lengths above 200 mm, steps of 20 mm.