

UDC 621.886.112

October 1992

Unhardened parallel pins
(ISO 2338 : 1986)
English version of DIN EN 22 338

DIN
EN 22 338

This standard incorporates the English version of ISO 2338.

Zylinderstifte, ungehärtet (ISO 2338 : 1986)

Supersedes DIN 7,
September 1981 edition.

European Standard EN 22 338 : 1992 has the status of a DIN Standard.

A comma is used as the decimal marker.

National foreword

The publication of this standard is in keeping with a decision made by CEN/TC 185 to adopt, without alteration, a series of ISO Standards covering parallel and taper pins as European Standards. The responsible German body involved in their publication is the *Normenausschuß Mechanische Verbindungselemente* (Fasteners Standards Committee).

As a consequence, all DIN Standards covering such pins have been superseded by the corresponding DIN EN Standards (see table below).

EN Standard	DIN EN Standard	Title	Previous DIN Standard
22 338	22 338	Unhardened parallel pins	7
22 339	22 339	Unhardened taper pins	1
28 733	28 733	Unhardened parallel pins with internal thread	7979
28 734	28 734	Hardened parallel pins	6325
28 735	28 735	Hardened parallel pins with internal thread	7979
28 736	28 736	Unhardened taper pins with internal thread	7978
28 737	28 737	Unhardened taper pins with external thread	7977

The DIN Standards corresponding to the ISO Standards referred to in clause 2 of the EN are as follows:

ISO Standard	DIN Standard
ISO 2081	DIN 50 961
ISO 3269	DIN ISO 3269 (at present at the stage of draft)

The DIN 4000-9-1 tabular layout of article characteristics applies for pins as covered here.

Continued overleaf.
EN comprises 5 pages.

Page 2 DIN EN 22 338

Standards referred to

(and not included in References)

DIN 4000 Part 9 Tabular layout of article characteristics for bolts, screws, pins, rivets, keys, and lock washers
DIN 50 961 Chromating of zinc and cadmium coatings on iron and steel

Previous editions

DIN 7 Suppl. 1: 04.27, 10.28, 04.31; DIN 7 Suppl. 2: 04.27; DIN 8: 02.19;
DIN 7: 02.19, 08.20, 02.25, 04.27, 07.36, 01.43, 06.56, 09.81.

Amendments

In comparison with DIN 7, September 1981 edition, the following amendments have been made.

- a) The specifications for the nominal lengths and their tolerances have been amended and new lengths introduced.
- b) The point length (dimension *c*) has been amended.
- c) The specifications for surface roughness have been amended.
- d) The material hardness has been specified.
- e) The standard designation has been changed.

International Patent Classification

F 16 B 19/02

1 Scope and field of application

This International Standard specifies the characteristics of unhardened parallel pins, with metric dimensions and nominal diameters, d , from 0,6 to 50 mm inclusive.

2 References

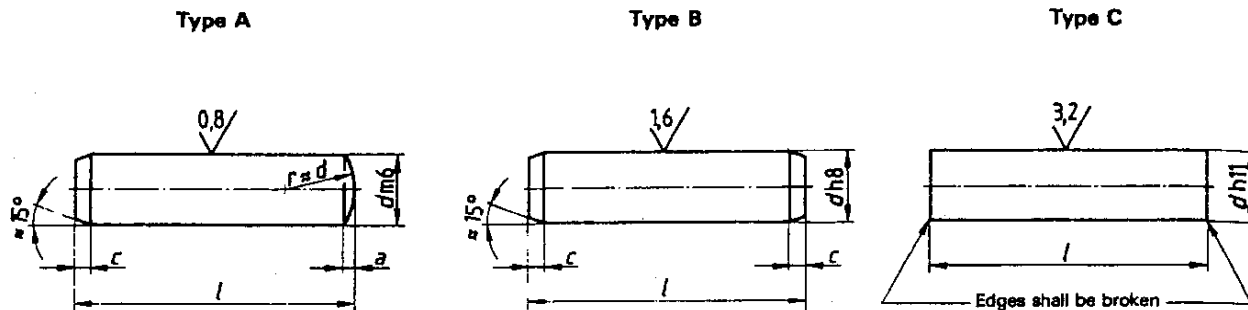
ISO 2081, *Metallic coatings — Electroplated coatings of zinc on iron or steel.*

ISO 3269, *Fasteners — Acceptance inspection.*

ISO 4520, *Chromate conversion coatings on electroplated zinc and cadmium coatings.*

3 Dimensions

Surface roughness values in micrometres



Dimensions in millimetres

d		0,6	0,8	1	1,2	1,5	2	2,5	3	4	5	6	8	10	12	16	20	25	30	40	50		
a	=	0,08	0,1	0,12	0,16	0,2	0,25	0,3	0,4	0,5	0,63	0,8	1	1,2	1,6	2	2,5	3	4	5	6,3		
c	=	0,12	0,16	0,2	0,25	0,3	0,35	0,4	0,5	0,63	0,8	1,2	1,6	2	2,5	3	3,5	4	5	6,3	8		
l ¹⁾																							
nom.	min.	max.																					
2	1,75	2,25																					
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																					
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																					
36	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																					
96	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) For nominal lengths above 200 mm, steps of 20 mm.

4 Specifications and reference International Standards

Material	St = Free-cutting steel, hardness 125 to 245 HV. Other materials as agreed between customer and supplier.
Surface finish	Plain, i.e. pins to be supplied in natural finish treated with a rust-preventative lubricant, unless otherwise specified by agreement between customer and supplier.
	Preferred coatings are black oxide, phosphate coating or zinc plating with chromate conversion coating (see ISO 2081 and ISO 4520). Other coatings as agreed between customer and supplier. All tolerances shall apply prior to the application of a plating or coating.
Workmanship	Parts shall be uniform in quality and free of irregularities or detrimental defects. No burrs shall appear on any part of the pin.
Acceptability	The acceptance procedure is covered in ISO 3269.

5 Designation

Example for the designation of an unhardened steel parallel pin, type A, with nominal diameter $d = 6$ mm and nominal length $l = 30$ mm :

Parallel pin ISO 2338 - A - 6 × 30 - St