
International Standard



8747

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Grooved pins with countersunk head

Clous cannelés à tête fraisée

First edition — 1986-11-01

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UDC 621.886.128

Ref. No. ISO 8747-1986 (E)

Descriptors : fasteners, pins (mechanics), grooved pins, specifications, dimensions, designation.

Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 8747 was prepared by Technical Committee ISO/TC 2, *Fasteners*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

Grooved pins with countersunk head

1 Scope and field of application

This International Standard specifies the characteristics of countersunk head grooved pins which have three equally spaced grooves impressed longitudinally on their exterior surface, with metric dimensions and nominal diameter, d_1 , from 1,4 to 20 mm inclusive.

The displaced material to each side of the grooves forming an expanded diameter d_2 which is larger than the nominal diameter d_1 will cause a positive locking fit when these grooved pins are forced into a drilled hole equal to the nominal diameter d_1 (see clause 4).

2 References

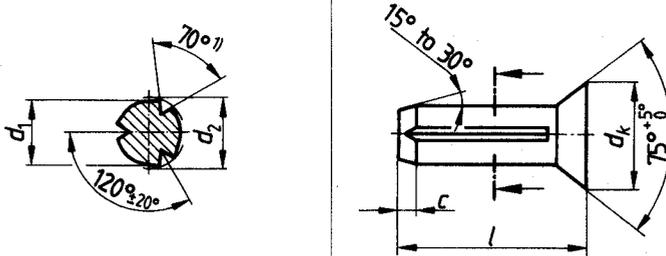
ISO 2081, *Metallic coatings — Electroplated coatings of zinc on iron or steel.*

ISO 3269, *Fasteners — Acceptance inspection.*

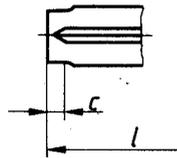
ISO 4520, *Chromate conversion coatings on electroplated zinc and cadmium coatings.*

3 Dimensions

Type A
Pin with chamfered end



Type B
Pin with pilot end
(at the discretion of the supplier, or specifically ordered by the customer)



NOTE — Other dimensions, see type A.

Dimensions in millimetres

d_1	nom.	1,4	1,6	2	2,5	3	4	5	6	8	10	12	16	20	
	max.	1,4	1,6	2	2,5	3	4	5	6	8	10	12	16	20	
	min.	1,35	1,55	1,95	2,425	2,925	3,9	4,9	5,9	7,85	9,85	11,8	15,8	19,8	
d_k	max.	2,7	3,0	3,7	4,6	5,45	7,25	9,1	10,8	14,4	16	19	26	31,5	
	min.	2,3	2,6	3,3	4,2	4,95	6,75	8,5	10,2	13,6	14,9	17,7	23,7	30,7	
c		0,42	0,48	0,6	0,75	0,9	1,2	1,5	1,8	2,4	3,0	3,6	4,8	6	
nom.	$l^{(2)}$		Expanded diameter, $d_2^{(3,4)}$												
	min.	max.	+ 0,05 0			± 0,05					± 0,10				
3	2,8	3,2	1,50	1,70	2,15	2,70	3,20	4,25	5,25	6,30	8,30	10,35	12,35	16,40	20,50
4	3,7	4,3													
5	4,7	5,3													
6	5,7	6,3													
8	7,7	8,3													
10	9,7	10,3													
12	11,6	12,4													
16	15,6	16,4													
20	19,5	20,5													
25	24,5	25,5													
30	29,5	30,5													
35	34,5	35,5													
40	39,5	40,5													

- 1) The grooving angle 70° applies only to grooved pins made from steel as shown in clause 5. The grooving angle may be modified depending on resilience of material.
- 2) The range of commercial lengths is between the stepped lines.
- 3) The expanded diameter d_2 applies only to pins made from free-cutting steel or cold-heading steel. For other materials a reduction amount shall be subtracted from the given values and should be agreed between customer and supplier.
- 4) For testing d_2 , a GO/NO GO ring gauge should be used.