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# International Standard



# 7378

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

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## Fasteners — Bolts, screws and studs — Split pin holes and wire holes

*Éléments de fixation — Boulons, vis et goujons — Trous de goupille et trous de fil à freiner*

First edition — 1983-02-01

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[ISO 7378:1983](#)

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Descriptors : fasteners, bolts, screws, studs, pin holes, dimensions.

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been authorized 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.

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.

International Standard ISO 7378 was developed by Technical Committee ISO/TC 2, *Fasteners*, and was circulated to the member bodies in December 1981.

It has been approved by the member bodies of the following countries:

Australia	Germany, F.R.	New Zealand
Austria	Hungary	Norway
Belgium	India	Poland
Brazil	Ireland	Romania
China	Italy	South Africa, Rep. of
Czechoslovakia	Japan	Spain
Denmark	Korea, Dem. P. Rep. of	Sweden
Egypt, Arab Rep. of	Korea, Rep. of	Switzerland
Finland	Mexico	United Kingdom
France	Netherlands	USSR

The member body of the following country expressed disapproval of the document on technical grounds:

USA

# Fasteners — Bolts, screws and studs — Split pin holes and wire holes

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## 1 Scope and field of application

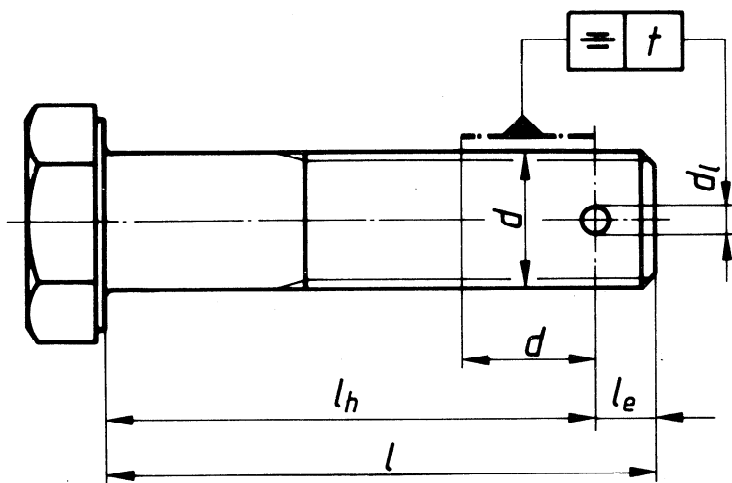
This International Standard lays down the dimensions and position of split pin holes and wire holes for bolts, screws and studs, recommended for use unless otherwise specified in the appropriate product standard.

## 2 Reference

ISO 4759/1, *Tolerances for fasteners — Part 1: Bolts, screws and nuts with thread diameters between 1,6 (inclusive) and 150 mm (inclusive) and product grades A, B and C.*

3 Dimensions

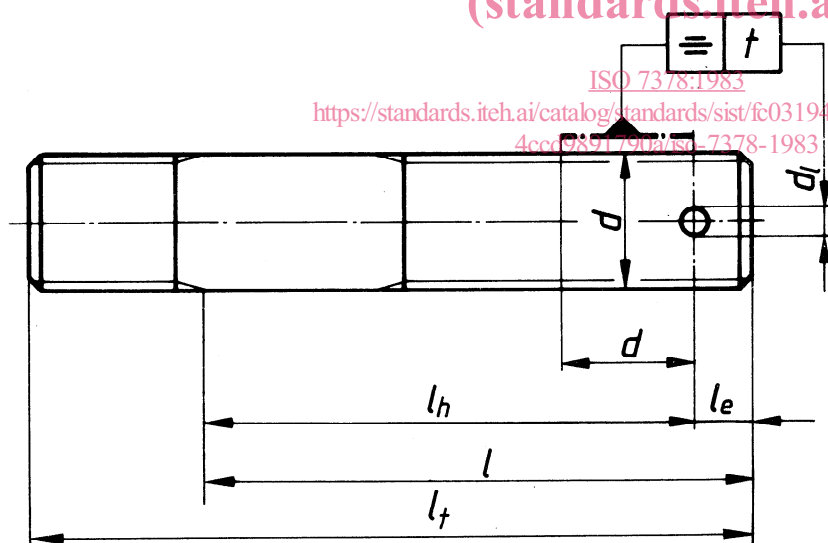
3.1 Split pin holes



Tolerance $t^*$		
Product grade		
A	B	C
2 IT 13	2 IT 14	2 IT 15

\* According to ISO 4759/1.  
Tolerance  $t$  based on  $d$ .

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Table 1

Dimensions in millimetres

Thread diameter, $d$	4	5	6	7	8	10	12	14	16	18	20
$d_l$	H14	1	1,2	1,6	1,6	2	2,5	3,2	3,2	4	4
$l_e$	min.	2,3	2,6	3,3	3,3	3,9	4,9	5,9	6,5	7	7,7

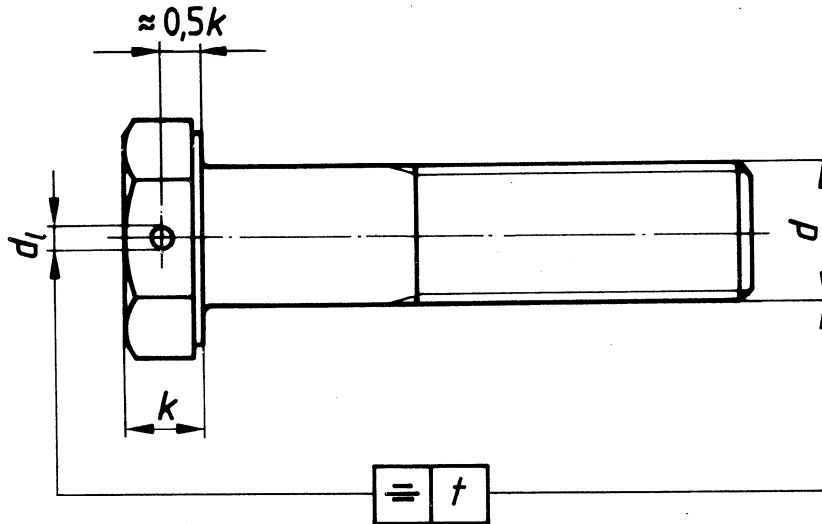
  

Thread diameter, $d$	22	24	27	30	33	36	39	42	45	48	52
$d_l$	H14	5	5	5	6,3	6,3	6,3	6,3	8	8	8
$l_e$	min.	8,7	10	10	11,2	11,2	12,5	12,5	14,7	14,7	16

NOTE — The value for  $l_h$  must be calculated for each application, but the hole should not be nearer the end of the fastener than  $l_e$  min. after taking into account the cumulative tolerances on  $l_h$  and  $l$ .

In general, a tolerance of  $+IT_{14}$  for  $l_h$  is practicable in production.

3.2 Wire holes



Tolerance <i>t</i>		
Product grade		
A	B	C
2 IT 13	2 IT 14	2 IT 15

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Table 2

Dimensions in millimetres

Thread diameter, <i>d</i>	4	5	6	7	8	10	12	14	16	18	20
<i>d<sub>l</sub></i> H14	1,2	1,2	1,6	1,6	2	2	2	2	3	3	3
Thread diameter, <i>d</i>	22	24	27	30	33	36	39	42	45	48	52
<i>d<sub>l</sub></i> H14	3	3	3	3	4	4	4	4	4	4	5

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