

# SLOVENSKI STANDARD SIST ISO 6411:1995

01-junij-1995

# HY\ b] bY`f]gVY`!`DcYbcgHUj`^Ybc`df]\_Uncj Ub^Y`gfYX]ý b]\ `]nj fh]b

Technical drawings -- Simplified representation of centre holes

Dessins techniques -- Représentation simplifiée des trous de centre

# (standards.iteh.ai) Ta slovenski standard je istoveten z: ISO 6411:1982

ICS:	<u>SIST ISO 6411:1995</u> https://standards.iteh.ai/catalog/standards/sist/13960c80-2b27-45f9-80e5- e60411e3939b/sist-iso-6411-1995		
01.100.20	Konstrukcijske risbe	Mechanical engineering drawings	

SIST ISO 6411:1995

en



# iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST ISO 6411:1995</u> https://standards.iteh.ai/catalog/standards/sist/13960c80-2b27-45f9-80e5e60411e3939b/sist-iso-6411-1995 International Standard



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • MEX HAPODHAR OPPAHUSALUM TO CTAHDAPTUSALUM • ORGANISATION INTERNATIONALE DE NORMALISATION

# Technical drawings — Simplified representation of centre holes

Dessins techniques - Représentation simplifiée des trous de centre

# First edition – 1982-04-15 iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST ISO 6411:1995</u> https://standards.iteh.ai/catalog/standards/sist/13960c80-2b27-45f9-80e5e60411e3939b/sist-iso-6411-1995

Ref. No. ISO 6411-1982 (E)

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (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 set up 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 6411 was developed by Technical Committee ISO/TC 10, VEW Technical drawings, and was circulated to the member bodies in January 1980. Standards.iten.ai

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

	,	0				
<u>SIST ISO 6411:1995</u>						
Australia	ht <b>Fren/se</b> undards.iteh.a	i/catalog/sRolandls/sist/13960c80-2b27-45f9-80e5-				
Austria	Germany, F. R. e6	0411e39389maniao-6411-1995				
Belgium	India	South Africa, Rep. of				
Brazil	Italy	Spain				
Canada	Japan	Sweden				
China	Korea, Dem. P. Re	p. of Switzerland				
Czechoslovakia	Korea, Rep. of	United Kingdom				
Denmark	Mexico	USA				
Finland	Norway	USSR				

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

Netherlands

© International Organization for Standardization, 1982 •

# Technical drawings — Simplified representation of centre holes

# **iTeh STANDARD PREVIEW** (standards.iteh.ai)

#### 1 Scope and field of application

This International Standard specifies the simplified representands/sis tation of centre holes and their designation 4 Simplified ISO 6428, Technical drawings - Requirements for microrepresentation of centre holes may be used particularly when it is not necessary to show the exact form and size and where the designation of standardized centre holes is sufficient for information.

#### References 2

ISO 128, Technical drawings - General principles of presentation.

ISO 866, Centre drills for centre holes without protecting chamfers - Type A.

ISO 2540, Centre drills for centre holes with protecting chamfers - Type B.

ISO 2541, Centre drills for centre holes with radius form -Type R.

### SIST ISO 6411: Cyrrently used characters. 2627-45f9-80e4

copying. 1)

ISO 3098/1, Technical drawings – Lettering – Part 1:

### 3 Indication on drawings

### 3.1 Requirements

Generally, three different requirements may be defined on technical drawings for the form and size of centre holes, namely :

a) centre hole is required on the finished part;

b) centre hole can be accepted on the finished part, but is not a fundamental requirement;

c) centre hole shall not exist on the finished part.

<sup>1)</sup> At present at the stage of draft.

### 3.2 Simplified representation

The symbols representing centre holes and their application to the end face of a shaft are shown in column 2 of table 1.

### 3.3 Designation of centre holes

The designation of centre holes is dependent on the drill and may be indicated with reference either to an International Standard or to any other standard dealing with this subject.

The designation of the centre hole itself consists of

- a reference to this International Standard;
- the letter for the type (R, A or B);
- the pilot diameter d;

- the outside countersink centre hole diameter D.

The two values are separated by a solidus.

*Example* : a centre hole<sup>1)</sup>, type B with d = 2,5 mm and  $D_3 = 8$  mm may be indicated on the drawing as : ISO 6411-B 2,5/8

### 4 Interpretation of indication

The relationship between the various designations used to specify the centre holes, the dimensions represented by the given designations, and dimensions depending on the centre drill used are shown in table 2.

Further details specifying the dimensions of the centre hole, to be indicated preferably on the drawings, are given in annex A.

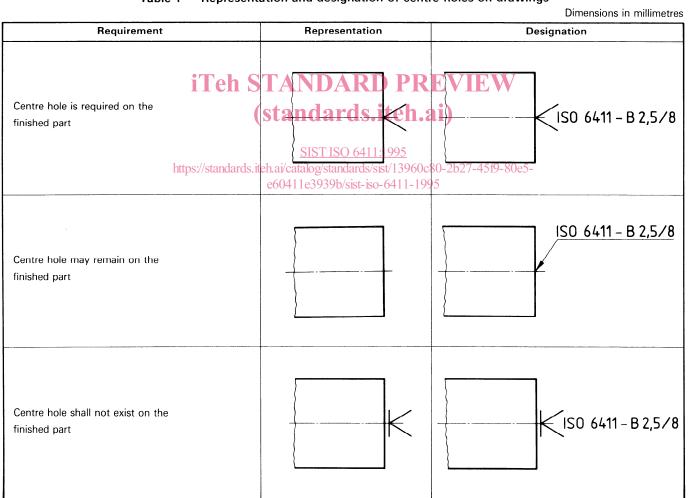


Table 1 – Representation and designation of centre holes on drawings

<sup>1)</sup> For the machining of such a centre hole, a drill with d = 2,5 and  $d_1 = 10$  according to ISO 2540 is used.

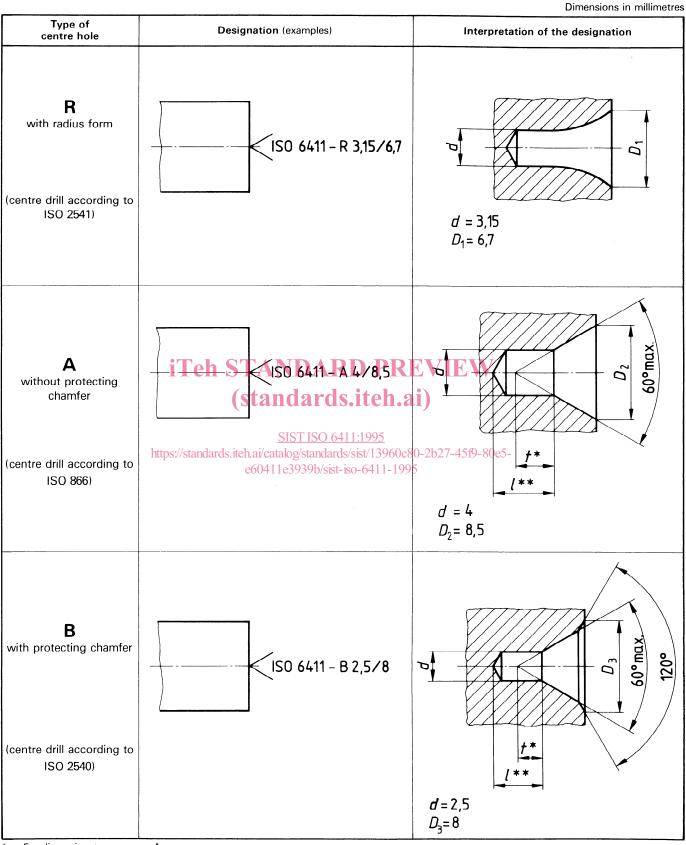


Table 2 – Interpretation of the designation

\* For dimension *t*, see annex A.

\*\* Dimension / depends on the length of the centre drill. It should not be less than t.

# Annex A

# Dimensions for centre holes type R, A and B

The dimensions which are necessary to specify a centre hole are shown in table 3.

<i>d</i> nom.	R according to ISO 2541				
nom.		A according to ISO 866		B according to ISO 2540	
	D <sub>1</sub> nom.	D <sub>2</sub> nom.	t ref.	D <sub>3</sub> nom.	t ref.
(0,5)		1,06	0,5		
(0,63)		1,32	0,6		
(0,8)		1,70	0,7		
1,0	2,12	2,12	0,9	3,15	0,9
(1,25)	2,65	2,65	1,1	4	1,1
1,6	3,35	3,35	1,4	5	1,4
2,0	4,25	4,25	1,8	6,3	1,8
2,5	5,3	5,30	2,2	8	2,2
3,15	6,7	oh \$6,70 <u>A</u> NT			2,8
4,0	8,5	8,50	3,5	12,5	3,5
(5,0)	10,6	10,60 m d	ards #4ah ai	16	4,4
6,3	13,2	13,20	us-5,5	18	5,5
(8,0)	17,0	17,00	7,0	22,4	7,0

### Table 3 - Dimensions of preferred centre holes

https://standards.iteh.ai/catalog/standards/sist/13960c80-2b27-45f9-80e5-NOTE - Sizes in brackets should be avoided whenever possible:3939b/sist-iso-6411-1995