



# SLOVENSKI STANDARD

## SIST EN 28675:1996

01-april-1996

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### Šestrobe nizke matice z metrskim drobnim navojem - Razreda izdelave A in B

Hexagon thin nuts with metric fine pitch thread - Product grades A and B (ISO 8675:1988)

Niedrige Sechskantmuttern mit metrischem Feingewinde - Produktklassen A und B (ISO 8675:1988)

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Ecrous bas hexagonaux a filetage métrique a pas fin - Grades A et B (ISO 8675:1988)

Ta slovenski standard je istoveten z: <sup>SIST EN 28675:1996</sup> EN 28675:1991

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#### ICS:

21.040.10	Metrski navoji	Metric screw threads
21.060.20	Matice	Nuts

**SIST EN 28675:1996**

**en**

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EUROPEAN STANDARD

EN 28675:1991

NORME EUROPEENNE

EUROPAISCHE NORM

October 1991

UDC 621.882.31

Descriptors : Fasteners, nuts : fasteners, double hexagonal nuts, screw threads, specifications, dimensions, designation

## English version

Hexagon thin nuts with metric fine pitch thread -  
Product grades A and B (ISO 8675:1988)

Ecrous bas hexagonaux à filetage métrique à pas fin - Grades A et B (ISO 8675:1988)	Niedrige Sechskantmuttern mit metrischem Feingewinde - Produktklassen A und B (ISO 8675:1988)
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This European Standard was approved by CEN on 1991-10-10 and is identical to the ISO standard as referred to.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

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Ref. No. EN 28675:1991 E

### FOREWORD

In 1990, ISO 8675:1988 was submitted to the CEN P.Q.-procedure.

Following the positive result of the P.Q., CEN/BT agreed to submit ISO 8675:1988 with the following modifications to Formal Vote.

In the French version, replace :

- "boulon" by "vis partiellement fileté",
- "vis" by "vis entièrement fileté".

In accordance with the Common CEN/CENELEC Rules, the following countries are bound to implement this European Standard :

Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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#### Endorsement notice

SIST EN 28675:1996

[https://standards.iteh.ai/catalog/standards/sist/812023e2-e73d-43bd-b742-](https://standards.iteh.ai/catalog/standards/sist/812023e2-e73d-43bd-b742-39267575/ISO-8675-1988)

The text of the International Standard ISO 8675:1988 was approved by CEN as a European Standard with agreed common modifications as given above.

# INTERNATIONAL STANDARD

ISO  
8675

First edition  
1988-04-15



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

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## Hexagon thin nuts with metric fine pitch thread — Product grades A and B

*Écrous bas hexagonaux à filetage métrique à pas fin — Grades A et B*

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ISO 8675 : 1988 (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 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 8675 was prepared by Technical Committee ISO/TC 2, *Fasteners*.

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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.

# Hexagon thin nuts with metric fine pitch thread — Product grades A and B

## 0 Introduction

This International Standard is part of the complete ISO product standard series on hexagon drive fasteners. The series comprises:

- a) hexagon head bolts (ISO 4014, ISO 4015, ISO 4016 and ISO 8765);
- b) hexagon head screws (ISO 4017, ISO 4018 and ISO 8676);
- c) hexagon nuts (ISO 4032, ISO 4033, ISO 4034, ISO 4035, ISO 4036, ISO 8673, ISO 8674 and ISO 8675);
- d) hexagon flanged bolts (ISO 4162 and ISO 8102);
- e) hexagon flanged screws;<sup>1)</sup>
- f) hexagon flanged nuts (ISO 4161, ISO 7043 and ISO 7044);
- g) structural bolting (ISO 4775 and ISO 7411 to ISO 7417).

## 1 Scope and field of application

This International Standard gives specifications for hexagon thin nuts, with metric fine pitch thread, with nominal thread diameters  $d$  from 8 mm up to and including 64 mm, with product grade A for sizes  $d$  up to and including 16 mm and product grade B for sizes  $d$  over 16 mm.

If, in special cases, specifications other than those listed in this International Standard are required, they should be selected from existing International Standards, for example ISO 261, ISO 898-6, ISO 965-2, ISO 3506, ISO 4759-1.

Coarse thread hexagon nuts according to ISO 4035 should be the first choice.

## 2 References

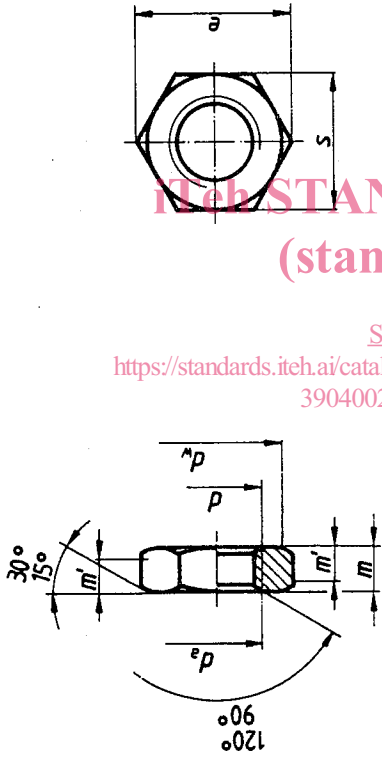
- ISO 225, *Fasteners — Bolts, screws and nuts — Symbols and designations of dimensions.*
- ISO 261, *ISO general purpose metric screw threads — General plan.*
- ISO 898-6, *Mechanical properties of fasteners — Part 6: Nuts with specified proof load values — Fine pitch thread.*
- ISO 965-2, *ISO general purpose metric screw threads — Tolerances — Part 2: Limits of sizes for general purpose bolt and nut threads — Medium quality.*
- ISO 3269, *Fasteners — Acceptance inspection.*
- ISO 3506, *Corrosion-resistant stainless steel fasteners — Specifications.*
- ISO 4035, *Hexagon thin nuts (chamfered) — Product grades A and B.*
- ISO 4042, *Threaded components — Electroplated coatings.*<sup>2)</sup>
- ISO 4759-1, *Tolerances for fasteners — Part 1: Bolts, screws and nuts with thread diameters  $> 1,6$  and  $< 150$  mm and product grades A, B and C.*
- ISO 8839, *Mechanical properties of fasteners — Bolts, screws, studs and nuts made of non-ferrous metals.*
- ISO 8992, *Fasteners — General requirements for bolts, screws and nuts.*

1) These will form the subjects of future International Standards.

2) At present at the stage of draft.

3 Dimensions

NOTE — Symbols and designations of dimensions are specified in ISO 225.



Dimensions in millimetres

**Table 1 — Preferred threads**

Thread, $d \times P$	M8 x 1	M10 x 1	M12 x 1,5	M16 x 1,5	M20 x 1,5	M24 x 2	M30 x 2	M36 x 3	M42 x 3	M48 x 3	M56 x 4	M64 x 4
$d_a$ min.	8	10	12	16	20	24	30	36	42	48	56	64
$d_a$ max.	8,75	10,8	13	17,3	21,6	25,9	32,4	38,9	45,4	51,8	60,5	69,1
$d_w$ min.	11,63	14,63	16,63	22,49	27,7	33,25	42,75	51,11	59,95	69,45	78,66	88,16
$e$ min.	14,38	17,77	20,03	26,75	32,95	39,55	50,85	60,79	71,3	82,6	93,56	104,86
$e$ max.	4	5	6	8	10	12	15	18	21	24	28	32
$m$ min.	3,7	4,7	5,7	7,42	9,1	10,9	13,9	16,9	19,7	22,7	26,7	30,4
$m'$ min.	2,96	3,76	4,56	5,94	7,28	8,72	11,12	13,52	15,76	18,16	21,36	24,32
$s$ nom. = max.	13	16	18	24	30	36	46	55	65	75	85	95
$s$ min.	12,73	15,73	17,73	23,67	29,16	35	45	53,8	63,1	73,1	82,8	92,8

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Table 2 — Non-preferred threads

Dimensions in millimetres

Thread, $d \times P$	Dimensions in millimetres											
	M10 x 1,25	M12 x 1,25	M14 x 1,5	M18 x 1,5	M20 x 2	M22 x 1,5	M27 x 2	M33 x 2	M39 x 3	M45 x 3	M52 x 4	M60 x 4
$d_a$	min. 10	12	14	18	20	22	27	33	39	45	52	60
	max. 10,8	13	15,1	19,5	21,6	23,7	29,1	35,6	42,1	48,6	56,2	64,8
$d_w$	min. 14,63	16,63	19,64	24,85	27,7	31,35	38	46,55	55,86	64,7	74,2	83,41
$e$	min. 17,77	20,03	23,36	29,56	32,95	37,29	45,2	55,37	66,44	76,95	88,25	99,21
	max. 5	6	7	9	10	11	13,5	16,5	19,5	22,5	26	30
$m$	min. 4,7	5,7	6,42	8,42	9,1	9,9	12,4	15,4	18,2	21,2	24,7	28,7
$m'$	min. 3,76	4,56	5,14	6,74	7,28	7,92	9,92	12,32	14,56	16,96	19,76	22,96
	nom. = max. 16	18	21	27	30	34	41	50	60	70	80	90
$s$	min. 15,73	17,73	20,67	26,16	29,16	33	40	49	58,8	68,1	78,1	87,8

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