
**Hexagon thin nuts unchamfered
(style 0) — Product grade B**

Écrous bas hexagonaux sans chanfrein (style 0) — Grade B



Reference number
ISO 4036:2012(E)

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 4036 was prepared by Technical Committee ISO/TC 2, *Fasteners*, Subcommittee SC 12, *Fasteners with metric internal thread*.

This third edition cancels and replaces the second edition (ISO 4036:1999), of which it constitutes a minor revision.

Introduction

This International Standard belongs to a complete group of product standards developed by ISO on external hexagon drive fasteners. It comprises the following:

- 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 7040, ISO 7041, ISO 7042, ISO 7719, ISO 7720, ISO 8673, ISO 8674, ISO 8675, ISO 10511, ISO 10512 and ISO 10513);
- d) hexagon bolts with flange (ISO 4162, ISO 15071 and ISO 15072);
- e) hexagon nuts with flange (ISO 4161, ISO 7043, ISO 7044, ISO 10663, ISO 12125, ISO 12126 and ISO 21670).

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1 Scope

This International Standard specifies the characteristics of unchamfered hexagon thin nuts (style 0), with threads from M1,6 up to and including M10 and product grade B.

If, in special cases, specifications other than those listed in this International Standard are required, they can be selected from existing International Standards, for example ISO 724, ISO 965-1 and ISO 4759-1.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable to its application. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 225, *Fasteners — Bolts, screws, studs and nuts — Symbols and descriptions of dimensions*

ISO 724, *ISO general-purpose metric screw threads — Basic dimensions*

ISO 965-1, *ISO general-purpose metric screw threads — Tolerances — Part 1: Principles and basic data*

ISO 3269, *Fasteners — Acceptance inspection*

ISO 4042, *Fasteners — Electroplated coatings*

ISO 4759-1, *Tolerances for fasteners — Part 1: Bolts, screws, studs and nuts — Product grades A, B and C*

ISO 6157-2, *Fasteners — Surface discontinuities — Part 2: Nuts*

ISO 8839, *Mechanical properties of fasteners — Bolts, screws, studs and nuts made of non-ferrous metals*

ISO 8992, *Fasteners — General requirements for bolts, screws, studs and nuts*

ISO 10683, *Fasteners — Non-electrolytically applied zinc flake coatings*

3 Dimensions

See Figure 1 and Table 1.

Symbols and descriptions of dimensions are specified in ISO 225.

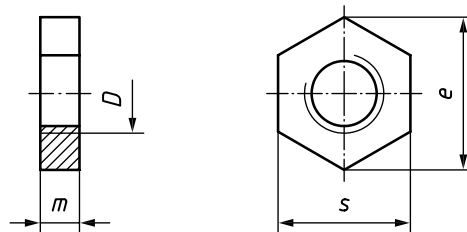


Figure 1

Table 1 — Dimensions

Dimensions in millimetres

Thread <i>D</i>		M1,6	M2	M2,5	M3	(M3,5) ^a	M4	M5	M6	M8	M10
<i>p</i> ^b		0,35	0,4	0,45	0,5	0,6	0,7	0,8	1	1,25	1,5
<i>e</i>	min.	3,28	4,18	5,31	5,88	6,44	7,50	8,63	10,89	14,20	17,59
<i>m</i>	max.	1,00	1,20	1,60	1,80	2,00	2,20	2,70	3,20	4,00	5,00
	min.	0,75	0,95	1,35	1,55	1,75	1,95	2,45	2,90	3,70	4,70
<i>s</i>	nom. = max.	3,20	4,00	5,00	5,50	6,00	7,00	8,00	10,00	13,00	16,00
	min.	2,90	3,70	4,70	5,20	5,70	6,64	7,64	9,64	12,57	15,57

^a If possible, the size in parentheses should be avoided.

^b *P* is the pitch of the thread.

4 Requirements and reference International Standards

See Table 2.

Table 2 — Requirements and reference International Standards

Material		Steel (St)	Non-ferrous metal
General requirements	International Standard	ISO 8992	
	Tolerance class	6H	
Thread	International Standards	ISO 724, ISO 965-1	
	Hardness min.	110 HV30	Materials as specified in ISO 8839
Mechanical properties	International Standard	—	
Tolerance	Product grade	B	
	International Standard	ISO 4759-1	
Finish — Coating		As processed	
		Requirements for electroplating are specified in ISO 4042. Requirements for non-electrolytically applied zinc flake coatings are specified in ISO 10683. Additional requirements or other finishes or coatings shall be agreed between the supplier and the purchaser.	
Surface integrity		Limits for surface discontinuities are specified in ISO 6157-2.	
Acceptability		Acceptance inspection is specified in ISO 3269.	

5 Designation

EXAMPLE An unchamfered hexagon thin nut (style 0) with thread M6 made from steel (St) with a minimum hardness of 110 HV30 is designated as follows:

Hexagon thin nut ISO 4036 - M6 - St

Bibliography

- [1] ISO 4014, *Hexagon head bolts — Product grades A and B*
- [2] ISO 4015, *Hexagon head bolts — Product grade B — Reduced shank (shank diameter approximately equal to pitch diameter)*
- [3] ISO 4016, *Hexagon head bolts — Product grade C*
- [4] ISO 4017, *Hexagon head screws — Product grades A and B*
- [5] ISO 4018, *Hexagon head screws — Product grade C*
- [6] ISO 4032, *Hexagon regular nuts (style 1) — Product grades A and B*
- [7] ISO 4033, *Hexagon high nuts (style 2) — Product grades A and B*
- [8] ISO 4034, *Hexagon regular nuts (style 1) — Product grade C*
- [9] ISO 4035, *Hexagon thin nuts chamfered (style 0) — Product grades A and B*
- [10] ISO 4161, *Hexagon nuts with flange, style 2 — Coarse thread*
- [11] ISO 4162, *Hexagon flange bolts — Small series — Product grade combination A/B*
- [12] ISO 7040, *Prevailing torque type hexagon regular nuts (with non-metallic insert) — Property classes 5, 8 and 10*
- [13] ISO 7041, *Prevailing torque type hexagon nuts (with non-metallic insert), style 2 — Property classes 9 and 12*
- [14] ISO 7042, *Prevailing torque type all-metal hexagon high nuts — Property classes 5, 8, 10 and 12*
- [15] ISO 7043, *Prevailing torque type hexagon nuts with flange (with non-metallic insert), style 2 — Product grades A and B*
- [16] ISO 7044, *Prevailing torque type all-metal hexagon nuts with flange, style 2 — Product grades A and B*
- [17] ISO 7719, *Prevailing torque type all-metal hexagon regular nuts — Property classes 5, 8 and 10*
- [18] ISO 7720, *Prevailing torque type all-metal hexagon nuts, style 2 — Property class 9*
- [19] ISO 8673, *Hexagon regular nuts (style 1) with metric fine pitch thread — Product grades A and B*
- [20] ISO 8674, *Hexagon high nuts (style 2) with metric fine pitch thread — Product grades A and B*
- [21] ISO 8675, *Hexagon thin nuts chamfered (style 0) with metric fine pitch thread — Product grades A and B*
- [22] ISO 8676, *Hexagon head screws with metric fine pitch thread — Product grades A and B*
- [23] ISO 8765, *Hexagon head bolts with metric fine pitch thread — Product grades A and B*
- [24] ISO 10511, *Prevailing torque type hexagon thin nuts (with non-metallic insert)*
- [25] ISO 10512, *Prevailing torque type hexagon regular nuts (with non-metallic insert) with metric fine pitch thread — Property classes 6, 8 and 10*
- [26] ISO 10513, *Prevailing torque type all-metal hexagon high nuts with metric fine pitch thread — Property classes 8, 10 and 12*
- [27] ISO 10663, *Hexagon nuts with flange, style 2 — Fine pitch thread*

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- [28] ISO 12125, *Prevailing torque type hexagon nuts with flange (with non-metallic insert) with metric fine pitch thread, style 2 — Product grades A and B*
- [29] ISO 12126, *Prevailing torque type all-metal hexagon nuts with flange with metric fine pitch thread, style 2 — Product grades A and B*
- [30] ISO 15071, *Hexagon bolts with flange — Small series — Product grade A*
- [31] ISO 15072, *Hexagon bolts with flange with metric fine pitch thread — Small series — Product grade A*
- [32] ISO 21670, *Hexagon weld nuts with flange*

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