

<b>STN</b>	<b>Spojovacie súčiastky Samopoistné šesťhranné matice Vysoké matice (s nekovovou vložkou) (ISO 7041: 2025)</b>	<b>STN EN ISO 7041</b>  02 1477
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Fasteners - Prevailing torque hexagon nuts - High nuts (with non-metallic insert) (ISO 7041:2025)

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 08/25

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EUROPEAN STANDARD

EN ISO 7041

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2025

ICS 21.060.20

English Version

## Fasteners - Prevailing torque hexagon nuts - High nuts (with non-metallic insert) (ISO 7041:2025)

Fixations - Écrous hexagonaux autofreinés - Écrous  
hauts (à anneau non métallique) (ISO 7041:2025)

Verbindungselemente - Sechskantmuttern mit  
Klemmteil - Hohe Muttern (mit nichtmetallischem  
Einsatz) (ISO 7041:2025)

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**EN ISO 7041:2025 (E)**

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## **European foreword**

This document (EN ISO 7041:2025) has been prepared by Technical Committee ISO/TC 2 "Fasteners" in collaboration with Technical Committee CEN/TC 185 "Fasteners" the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2025, and conflicting national standards shall be withdrawn at the latest by December 2025.

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## **Endorsement notice**

The text of ISO 7041:2025 has been approved by CEN as EN ISO 7041:2025 without any modification.



# International Standard

**ISO 7041**

## **Fasteners — Prevailing torque hexagon nuts — High nuts (with non-metallic insert)**

*Fixations — Écrous hexagonaux autofreinés — Écrous hauts (à anneau non métallique)*

**Fifth edition  
2025-06**

## ISO 7041:2025(en)



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**ISO 7041:2025(en)****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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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This document was prepared by Technical Committee ISO/TC 2, *Fasteners*, Subcommittee SC 12, *Fasteners with metric internal thread*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 185, *Fasteners*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This fifth edition cancels and replaces the fourth edition (ISO 7041:2012) which has been technically revised.

The main changes are as follows:

- the title and scope have been changed in order to address the nut height: high (instead of style 2); the design principles of these nuts have been clarified in Scope (see Note);
- property classes have been deleted from title and scope: style, relevant property classes and related quenching and tempering conditions for steel nuts have been specified in [Clause 5](#) in accordance with ISO 898-2; property class 9 has been replaced by property classes 8 and 10; see [Table 3](#);
- stainless steel nuts have been added in accordance with ISO 3506-2;
- M7, M18, M22, M27, M33 and M39 have been added;
- $d_{a,max}$  and  $m_{w,min}$  have been specified with two decimal places;
- $d_{w,min}$  for M5 has been changed from  $s_{min} - IT16$  to  $s_{min} - IT15$  in order to have a larger bearing surface area and thus less contact pressure;
- $h_{max}$  for M5 has been increased so that regular, high and thin nuts have an identical room for the prevailing torque feature ( $h_{max} - m_{min}$ ) to accommodate the non-metallic insert;  $h_{min}$  has therefore been increased in accordance with the specified tolerance (see [Table 1](#));
- specifications for marking and labelling have been added as [Clause 6](#).

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

# Fasteners — Prevailing torque hexagon nuts — High nuts (with non-metallic insert)

## 1 Scope

This document specifies the characteristics of prevailing torque hexagon high nuts (with non-metallic insert), in steel and stainless steel, with metric coarse pitch thread M5 to M39, and with product grades A and B.

NOTE These nuts are designed with an overall height equal to  $m_{\min}$  (as specified in ISO 898-2 and ISO 4033 for style 2) plus the prevailing torque feature. The height of the prevailing torque feature ( $h_{\max} - m_{\min}$ ) for the non-metallic insert is identical for regular, high and thin nuts for a given diameter.

If in certain cases other specifications are requested, property classes and stainless steel grades can be selected from ISO 898-2 or ISO 3506-2.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. 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 898-2, *Fasteners — Mechanical properties of fasteners made of carbon steel and alloy steel — Part 2: Nuts with specified property classes*

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

ISO 1891-4, *Fasteners — Vocabulary — Part 4: Control, inspection, delivery, acceptance and quality*

ISO 2320, *Fasteners — Prevailing torque steel nuts — Functional properties*

ISO 3269, *Fasteners — Acceptance inspection*

ISO 3506-2, *Fasteners — Mechanical properties of corrosion-resistant stainless steel fasteners — Part 2: Nuts with specified grades and property classes*

ISO 4042, *Fasteners — Electroplated coating systems*

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 8991, *Designation system for fasteners*

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

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

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**