

<b>STN</b>	<b>Spojovacie súčiastky Samopoistné šesťhranné matice Vysoké matice (celokovové) s jemným závitom (ISO 10513: 2025)</b>	<b>STN EN ISO 10513</b>  02 1476
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Fasteners - Prevailing torque hexagon nuts - High nuts (all metal), with fine pitch thread (ISO 10513:2025)

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

Obsahuje: EN ISO 10513:2025, ISO 10513:2025

Oznámením tejto normy sa ruší  
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EUROPEAN STANDARD

**EN ISO 10513**

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2025

ICS 21.060.20

Supersedes EN ISO 10513:2012

English Version

**Fasteners - Prevailing torque hexagon nuts - High nuts (all metal), with fine pitch thread (ISO 10513:2025)**

Fixations - Écrous hexagonaux autofreinés - Écrous hauts (tout métal), à pas fin (ISO 10513:2025)

Verbindungselemente - Sechskantmuttern mit Klemmteil - Hohe Mutter (Ganzmetallmuttern), mit Feingewinde (ISO 10513:2025)

This European Standard was approved by CEN on 21 June 2025.

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**EN ISO 10513:2025 (E)**

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## **European foreword**

This document (EN ISO 10513:2025) 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of an identical text or by endorsement, at the latest by December 2025, and conflicting national standards shall be withdrawn at the latest by December 2025.

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

This document supersedes EN ISO 10513:2012.

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## **Endorsement notice**

The text of ISO 10513:2025 has been approved by CEN as EN ISO 10513:2025 without any modification.



# International Standard

**ISO 10513**

## **Fasteners — Prevailing torque hexagon nuts — High nuts (all metal), with fine pitch thread**

*Fixations — Écrous hexagonaux autofreinés — Écrous hauts  
(tout métal), à pas fin*

**Third edition  
2025-06**

## ISO 10513:2025(en)



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**ISO 10513:2025(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 third edition cancels and replaces the second edition (ISO 10513:2012) which has been technically revised.

The main changes are as follows:

- the design principles of these nuts have been clarified in Scope (see Note);
- 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 (see [Table 3](#));
- stainless steel nuts have been added in accordance with ISO 3506-2;
- M20×2 has been added, as well as non-preferred sizes 18 mm, 22 mm, 27 mm, 33 mm and 39 mm;
- $d_{a,max}$  has been specified with two decimal places;
- $h_{max}$  for size 12 mm has been corrected to 12,30 mm (13,30 mm in the second edition came from a typing error);  $h_{max}$  for size 24 mm, has been increased to 24,00 mm in order to have  $h_{max} \geq D$  for the whole diameter range;
- 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 (all metal), with fine pitch thread

## 1 Scope

This document specifies the characteristics of prevailing torque (all metal) hexagon high nuts, in steel and stainless steel, with metric fine pitch thread 8 mm to 39 mm, and with product grades A and B.

NOTE These nuts are designed with an overall height  $h_{\min} = m_{\min}$  (as specified in ISO 898-2 and ISO 8674 for style 2) plus the prevailing torque feature.  $h_{\max}$  has been established in function of  $h_{\min}$ ; therefore, the tolerance ( $h_{\max} - h_{\min}$ ) does not follow the ISO code system for tolerances (IT system). The wrenching height  $m_{w,\min}$  corresponds to the values specified for style 1.

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**