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BSI Standards Publication

## Fasteners — Hexagon regular nuts (style 1)

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## National foreword

This British Standard is the UK implementation of EN ISO 4032:2023. It is identical to ISO 4032:2023. It supersedes BS EN ISO 4032:2012, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee FME/9, Fasteners.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Published by BSI Standards Limited 2023

ISBN 978 0 539 15881 6

ICS 21.060.20

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 August 2023.

### Amendments/corrigenda issued since publication

Date	Text affected
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## EUROPÄISCHE NORM

August 2023

ICS 21.060.20

Supersedes EN ISO 4032:2012

English Version

## Fasteners - Hexagon regular nuts (style 1) (ISO 4032:2023)

Fixations - Écrous normaux hexagonaux (style 1) (ISO 4032:2023)

Mechanische Verbindungselemente - Sechskantmuttern (Typ 1) (ISO 4032:2023)

This European Standard was approved by CEN on 10 June 2023.

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 CEN-CENELEC Management Centre or to any CEN member.

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 CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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## European foreword

This document (EN ISO 4032:2023) 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 February 2024, and conflicting national standards shall be withdrawn at the latest by February 2024.

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 4032:2012.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

## Endorsement notice

The text of ISO 4032:2023 has been approved by CEN as EN ISO 4032:2023 without any modification.

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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.

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 documents 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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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

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 4032:2012) which has been technically revised.

The main changes are as follows:

- nuts with  $D < M5$  and  $D > M39$  (with  $m_{\min} < 0,8D$  not conforming to ISO 898-2 nor to ISO 3506-2) have been shifted to informative [Annex A](#); reference to ISO/TR 16224 for appropriate nut design has been added;
- M7 has been added;
- values of  $c_{\max}$  for sizes M1,6 to M2,5 have been amended in accordance with ISO 4759-1;
- $d_{a,\max}$ ,  $d_{w,\min}$  and  $m_{w,\min}$  have been specified with two decimal places;
- $d_{w,\min}$  for sizes  $D \leq M5$  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;
- for steel nuts, quenching and tempering condition has been specified in accordance with ISO 898-2, and property classes 5 and 12 have been added;
- for stainless steel nuts, grades D4 and D6 and property class 80 have been added;
- non-ferrous metal nuts have been deleted (as a consequence of the withdrawal of ISO 8839);
- specifications for marking and labelling have been added as [Clause 6](#).