BS EN ISO 4033:2012

BSI Standards Publication

Hexagon high nuts (style 2) — Product grades A and B
This British Standard is the UK implementation of EN ISO 4033:2012.
It supersedes BS EN ISO 4033:2001 which is withdrawn.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 secretary.

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ISBN 978 0 580 78558 0

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 January 2013.

Amendments issued since publication

| Date | Text affected |
Hexagon high nuts (style 2) - Product grades A and B (ISO 4033:2012)

Écrous hexagonaux hauts (style 2) - Grades A et B (ISO 4033:2012)
Sechskantmuttern, Typ 2 - Produktklassen A und B (ISO 4033:2012)

This European Standard was approved by CEN on 13 November 2012.

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Foreword

This document (EN ISO 4033:2012) 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 DIN.

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of an identical text or by endorsement, at the latest by June 2013, and conflicting national standards shall be withdrawn at the latest by June 2013.

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


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Endorsement notice

The text of ISO 4033:2012 has been approved by CEN as a EN ISO 4033:2012 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.

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.

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ISO 4033 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 4033:1999), 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);


d) hexagon bolts with flange (ISO 4162, ISO 15071 and ISO 15072);

Hexagon high nuts (style 2) — Product grades A and B

1 Scope

This International Standard specifies the characteristics of hexagon high nuts (style 2), with threads from M5 up to and including M36, with product grade A for threads $D \leq M16$ and product grade B for threads $D > M16$.

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 898-2, ISO 965-1 and ISO 4759-1.

NOTE For hexagon regular nuts (style 1), see ISO 4032.

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 898-2, Mechanical properties of fasteners made of carbon steel and alloy steel — Part 2: Nuts with specified property classes — Coarse thread and fine pitch thread

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

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

ISO 10684, Fasteners — Hot dip galvanized coatings

3 Dimensions

See Figure 1 and Table 1.

Symbols and descriptions of dimensions are specified in ISO 225.