Hexalobular socket head cap screws

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EESTI STANDARDI EESSÕNA **NATIONAL FOREWORD**

Käesolev Eesti standard EVS-EN ISO 14579:2002 sisaldab Euroopa standardi EN ISO 14579:2001 ingliskeelset teksti. Käesolev dokument on jõustatud 19.06.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN ISO 14579:2002 consists of the English text of the European standard EN ISO 14579:2001. This document is endorsed on 19.06.2002 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.

Käsitlusala: This standard specifies the characteristics of hexalobular socket head cap screws with thread sizes from M2 up to and including M20, of product grade A.	**Scope:** This standard specifies the characteristics of hexalobular socket head cap screws with thread sizes from M2 up to and including M20, of product grade A.

ICS 21.060.10

Võtmesõnad: acceptance testing, countersu, delivery conditions, designations, dimensions, fasteners, hexagon sockets, hexalobular internal driving, internal drive, internal hexalobular screws, marking, measurement, screws, screws (bolts), tolerances, tolerances (measurement)

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 14579

September 2001

ICS 21.060.10

English version

Hexalobular socket head cap screws (ISO 14579:2001)

Vis à métaux à tête cylindrique à six lobes internes (ISO 14579:2001)

Zylinderschrauben mit Innensechsrund (ISO 14579:2001)

This European Standard was approved by CEN on 1 September 2001.

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Ref. No. EN ISO 14579:2001 E

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Foreword

This document (ISO 14579:2001) has been prepared by Technical Committee ISO/TC 2 "Fasteners" in collaboration with Technical Committee CEN/TC 185 "Threaded and non-threaded mechanical fasteners and accessories", 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 March 2002, and conflicting national standards shall be withdrawn at the latest by March 2002.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 14579:2001 has been approved by CEN as a European Standard without any modifications.

NOTE Normative references to International Standards are listed in annex ZA (normative).

Annex ZA
(normative)

Normative references to international publications with their relevant European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE Where an International Publication has been modified by common modifications, indicated by (mod.), the relevant EN/HD applies.

Publication	Year	Title	EN	Year
ISO 225	1983	Fasteners — Bolts, screws, studs and nuts — Symbols and designations of dimensions	EN 20225	1991
ISO 898-1	1999	Mechanical properties of fasteners made of carbon steel and alloy steel — Part 1: Bolts, screws and studs	EN ISO 898-1	1999
ISO 3269	2000	Fasteners — Acceptance inspection	EN ISO 3269	2000
ISO 3506-1	1997	Mechanical properties of corrosion-resistant stainless-steel fasteners — Part 1: Bolts, screws and studs	EN ISO 3506-1	1997
ISO 4042	1999	Fasteners — Electroplated coatings	EN ISO 4042	1999
ISO 4753	1999	Fasteners — Ends of parts with external ISO metric thread	EN ISO 4753	1999
ISO 4759-1	2000	Tolerances for fasteners — Part 1: Bolts, screws, studs and nuts — Product grades A, B and C	EN ISO 4759-1	2000
ISO 6157-1	1988	Fasteners — Surface discontinuities — Part 1: Bolts, screws and studs for general requirements	EN 26157-1	1991
ISO 6157-3	1988	Fasteners — Surface discontinuities — Part 3: Bolts, screws and studs for special requirements	EN 26157-3	1991
ISO 8839	1986	Mechanical properties of fasteners — Bolts, screws, studs and nuts made of non-ferrous metals	EN 28839	1991
ISO 10664	1999	Hexalobular internal driving feature for bolts and screws	EN ISO 10664	1999
ISO 10683	2000	Fasteners — Non-electrolytically applied zinc flake coatings	EN ISO 10683	2000

INTERNATIONAL STANDARD

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Hexalobular socket head cap screws

Vis à métaux à tête cylindrique à six lobes internes

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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 3.

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 International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 14579 was prepared by Technical Committee ISO/TC 2, *Fasteners*.

Annex A of this International Stanfdard is for information only.

Hexalobular socket head cap screws

1 Scope

This International Standard specifies the characteristics of hexalobular socket head cap screws with thread sizes from M2 up to and including M20, of product grade A.

If, in special cases, specifications other than those listed in this International Standard are required, they should be selected from existing International Standards, e.g. ISO 261, ISO 888, ISO 898-1, ISO 965-2, ISO 965-3, ISO 3506-1, ISO 4759-1.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 225:1983, *Fasteners — Bolts, screws, studs and nuts — Symbols and designations of dimensions*

ISO 261:1998, *ISO general-purpose metric screw threads — General plan*

ISO 888:1976, *Bolts, screws and studs — Nominal lengths, and thread lengths for general purpose bolts*

ISO 898-1:1999, *Mechanical properties of fasteners made of carbon steel and alloy steel — Part 1: Bolts, screws and studs*

ISO 965-2:1998, *ISO general purpose metric screw threads — Tolerances — Part 2: Limits of sizes for general purpose external and internal screw threads — Medium quality*

ISO 965-3:1999, *ISO general purpose metric screw threads — Tolerances — Part 3: Deviations for constructional screw threads*

ISO 3269:2000, *Fasteners — Acceptance inspection*

ISO 3506-1:1997, *Mechanical properties of corrosion-resistant stainless-steel fasteners — Part 1: Bolts, screws and studs*

ISO 4042:1999, *Fasteners — Electroplated coatings*

ISO 4753:1999, *Fasteners — Ends of parts with external ISO metric thread*

ISO 4759-1:2000, *Tolerances for fasteners — Part 1: Bolts, screws, studs and nuts — Product grades A, B and C*

ISO 6157-1:1988, *Fasteners — Surface discontinuities — Part 1: Bolts, screws and studs for general requirements*

ISO 6157-3:1988, *Fasteners — Surface discontinuities — Part 3: Bolts, screws and studs for special requirements*

ISO 8839:1986, *Mechanical properties of fasteners — Bolts, screws, studs and nuts made of non-ferrous metals*

ISO 8992:1986, *Fasteners — General requirements for bolts, screws, studs and nuts*

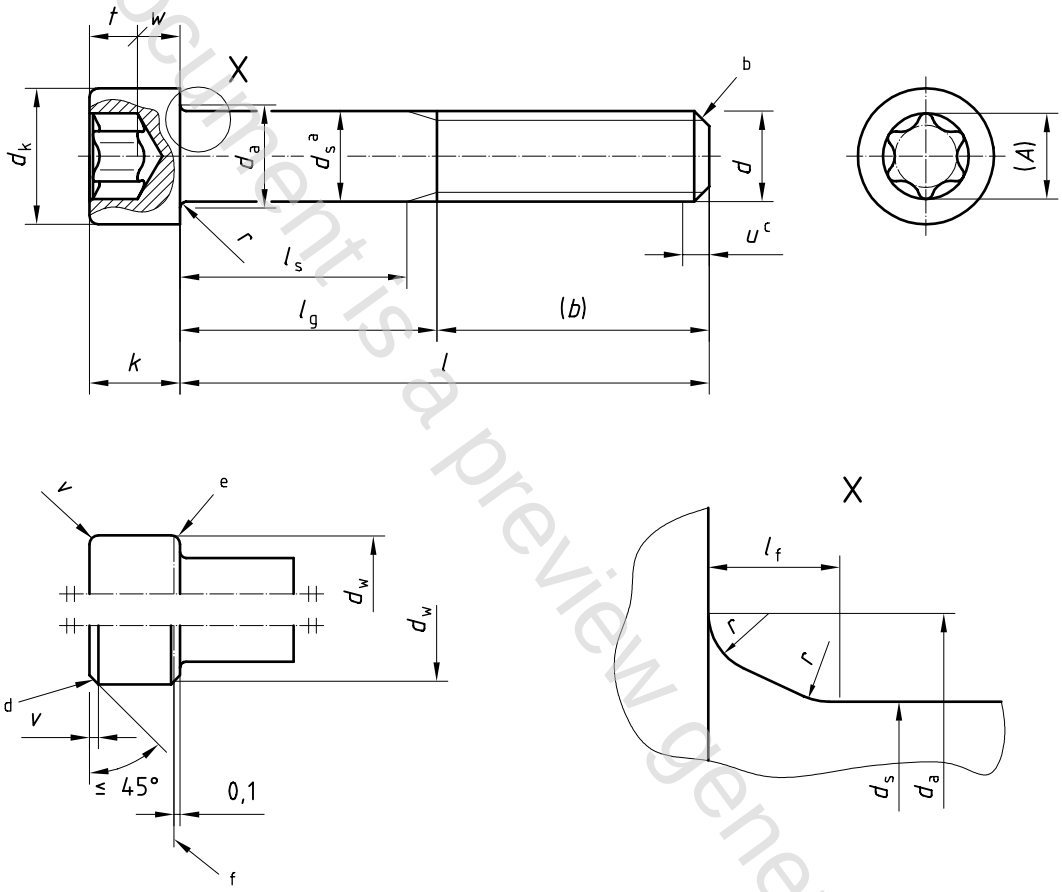
ISO 10664:1999, *Hexalobular internal driving feature for bolts and screws*

ISO 10683:2000, *Fasteners — Non-electrolytically applied zinc flake coatings*

3 Dimensions

See Figure 1 and Table 1.

Symbols and designations of dimensions, except dimensions A and v, are specified in ISO 225.



Maximum underhead fillet

$l_{f\,max} = 1{,}7\ r_{max}$

$$r_{max} = \frac{d_{a,max} - d_{s,max}}{2}$$

r_{min}, see Table 1

a d_s applies if values of l_s min are specified.

b Point chamfered or for sizes M4 and below "as rolled", see ISO 4753.

c Incomplete thread $u \leqslant 2\ P$.

d Top edge of head may be rounded or chamfered as shown at the discretion of the manufacturer.

e Bottom edge of head may be rounded or chamfered to d_w but in every case shall be free from burrs.

f Reference datum for d_w.

Figure 1