



**SLOVENSKI STANDARD**  
**SIST EN ISO 10642:2001**  
**01-julij-2001**

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**Vijaki z ugrezno glavo in notranjim šestkotnikom (ISO 10642:1997)**

Hexagon socket countersunk head screws (ISO 10642:1997)

Senkschrauben mit Innensechskant (ISO 10642:1997)

Vis a tete fraisée a six pans creux (ISO 10642:1997)

**Ta slovenski standard je istoveten z: EN ISO 10642:1997**

[SIST EN ISO 10642:2001](https://standards.iteh.ai/catalog/standards/sist/712b62f4-e04e-4227-90c5-2b9015b73156/sist-en-iso-10642-2001)

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**ICS:**

21.060.10      Sorniki, vijaki, stebelni vijaki      Bolts, screws, studs

**SIST EN ISO 10642:2001**

**en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN ISO 10642

November 1997

ICS 21.060.10

Descriptors: see ISO document

English version

## Hexagon socket countersunk head screws (ISO 10642:1997)

Vis à tête fraisée à six pans creux (ISO 10642:1997)

This European Standard was approved by CEN on 23 October 1997.

CEN members are bound to comply with the CEN/GENELEC 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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EN ISO 10642:1997

Corrected 1997-12-11

## Foreword

The text of the International Standard ISO 10642:1997 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 May 1998, and conflicting national standards shall be withdrawn at the latest by May 1998.

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 10642:1997 was approved by CEN as a European Standard without any modification.

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

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**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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 225	1983	Fasteners - Bolts, screws, studs and nuts - Symbols and designations of dimensions	EN 20225	1991
ISO 898-1	1988	Mechanical properties of fasteners - Part 1: Bolts, screws and studs	EN 20898-1	1991
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

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INTERNATIONAL  
STANDARD

ISO  
10642

First edition  
1997-11-15

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**Hexagon socket countersunk head screws**

*Vis à tête fraisée à six pans creux*

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Reference number  
ISO 10642:1997(E)

## ISO 10642:1997(E)

## 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.

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.

International Standard ISO 10642 was prepared by Technical Committee ISO/TC 2, *Fasteners*.

Annex A forms an integral part of this International Standard.

[SIST EN ISO 10642:2001](https://standards.iteh.ai/catalog/standards/sist/712b62f4-e04e-4227-90c5-2b9015b73156/sist-en-iso-10642-2001)

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# Hexagon socket countersunk head screws

## 1 Scope

This International Standard specifies the characteristics of hexagon socket countersunk head screws with threads from M3 up to and including M20, of product grade A and property classes 8.8, 10.9 and 12.9.

NOTE — Particular attention is drawn to the note in table 2 and to table 3, concerning the limitation on ultimate tensile load.

Gauging of hexagon sockets is specified in annex A.

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

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

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

ISO 261:–<sup>1)</sup>, *ISO general-purpose metric screw threads – General plan.*  
<https://standards.iteh.ai/catalog/standards/sist/712b62f4-e04e-4227-90c5-289015875156/sist-en-iso-10642-2001>

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

ISO 898-1:–<sup>2)</sup>, *Mechanical properties of fasteners made of carbon steel and alloy steel – Part 1: Bolts, screws and studs.*

ISO 965-2:–<sup>3)</sup>, *ISO general purpose metric screw threads – Tolerances - Part 2: Limits of sizes for general purpose bolt and nut threads – Medium quality.*

ISO 965-3:–<sup>4)</sup>, *ISO general purpose metric screw threads – Tolerances - Part 3: Deviations for constructional threads.*

ISO 3269:1988, *Fasteners – Acceptance inspection.*

ISO 4042:–<sup>5)</sup>, *Fasteners – Electroplated coatings.*

ISO 4759-1:–<sup>6)</sup>, *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.*

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- 1) To be published. (Revision of ISO 261:1973)
  - 2) To be published. (Revision of ISO 898-1:1988)
  - 3) To be published. (Revision of ISO 965-2:1980)
  - 4) To be published. (Revision of ISO 965-3:1980)
  - 5) To be published. (Revision of ISO 4042:1989)
  - 6) To be published. (Revision of ISO 4759-1:1978)