

SLOVENSKI STANDARD

SIST EN ISO 898-5:2001

01-julij-2001

Mehanske lastnosti veznih elementov iz ogljikovega in legiranega jekla - 5. del: Navojni zatiči in podobni vijaki, ki niso natezno obremenjeni (ISO 898-5:1998)

Mechanical properties of fasteners made of carbon steel and alloy steel - Part 5: Set screws and similar threaded fasteners not under tensile stresses (ISO 898-5:1998)

Mechanische Eigenschaften von Verbindungselementen aus Kohlenstoffstahl und legiertem Stahl - Teil 5: Gewindestifte und ähnliche nicht auf Zug beanspruchte Verbindungselemente (ISO 898-5:1998)

Caractéristiques mécaniques des éléments de fixation en acier au carbone et en acier allié - Partie 5: Vis sans tête et éléments de fixation filetés similaires non soumis à des contraintes de traction (ISO 898-5:1998)

Ta slovenski standard je istoveten z: EN ISO 898-5:1998

ICS:

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

SIST EN ISO 898-5:2001

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 898-5

August 1998

ICS 21.060.10

Descriptors: see ISO document

English version

Mechanical properties of fasteners made of carbon steel and alloy steel - Part 5: Set screws and similar threaded fasteners not under tensile stresses (ISO 898-5:1998)

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This European Standard was approved by CEN on 25 July 1998.

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 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.



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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prEN ISO 898-5:1998

Foreword

The text of the International Standard ISO 898-5:1998 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 February 1999, and conflicting national standards shall be withdrawn at the latest by February 1999.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

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.

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The text of the International Standard ISO 898-5:1998 was approved by CEN as a European Standard without any modification.

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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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 6507-1	1997	Metallic materials - Vickers hardness test - Part 1: Test method	EN ISO 6507-1	1997

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INTERNATIONAL STANDARD

ISO
898-5

Second edition
1998-08-01

Mechanical properties of fasteners made of carbon steel and alloy steel —

Part 5:

Set screws and similar threaded fasteners not
under tensile stresses

iTeh **STANDARD PREVIEW**

*Caractéristiques mécaniques des éléments de fixation en acier au carbone
et en acier allié*

*Partie 5: Vis sans tête et éléments de fixation filetés similaires non soumis à
des contraintes de traction*

<https://standards.iteh.ai/catalog/standards/sist/b15194ed-1397-42cd-ae76-514f0e7292f5/sist-en-iso-898-5-2001>



Reference number
ISO 898-5:1998(E)

ISO 898-5:1998(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 898-5 was prepared by Technical Committee ISO/TC 2, *Fasteners*, Subcommittee SC 1, *Mechanical properties of fasteners*.

This second edition cancels and replaces the first edition (ISO 898-5:1980), which has been technically revised.

ISO 898 consists of the following parts, under the general title *Mechanical properties of fasteners made of carbon steel and alloy steel*:

- *Part 1: Bolts screws and studs*
- *Part 2: Nuts with specified proof load values — Coarse thread*
- *Part 5: Set screws and similar threaded fasteners not under tensile stresses*
- *Part 6: Nuts with specified proof load values — Fine pitch thread*
- *Part 7: Torsional test and minimum torques for bolts and screws with nominal diameters 1 mm to 10 mm*

Annex A of this part of ISO 898 is for information only.

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Mechanical properties of fasteners made of carbon steel and alloy steel —

Part 5:

Set screws and similar threaded fasteners not under tensile stresses

1 Scope

This part of ISO 898 specifies the mechanical properties of set screws and similar threaded fasteners not under tensile stresses with nominal thread diameters from 1,6 mm up to and including 24 mm, which are made of carbon steel or alloy steel.

The mechanical and physical properties apply when tested at an ambient temperature of 10 °C to 35 °C and will vary at higher or lower temperatures.

This part of ISO 898 does not apply to set screws requiring special properties such as

- specified tensile stresses (see ISO 898-1); [SIST EN ISO 898-5:2001](https://standards.iteh.ai/catalog/standards/sist/b15194ed-1397-42cd-ae76-514f0e7292f5/sist-en-iso-898-5-2001)
- weldability; <https://standards.iteh.ai/catalog/standards/sist/b15194ed-1397-42cd-ae76-514f0e7292f5/sist-en-iso-898-5-2001>
- corrosion resistance;
- ability to withstand temperatures above + 300 °C or below – 50 °C.

NOTE — Set screws made from free-cutting steel should not be used above + 250 °C.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 898. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 898 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 965-3:1998, *ISO general purpose metric screw threads — Tolerances — Part 3: Deviations for constructional threads.*

ISO 4948-1:1982, *Steels — Classification — Part 1: Classification of steels into unalloyed and alloy steels based on chemical composition.*

ISO 6506:1981, *Metallic materials — Hardness test — Brinell test.*

ISO 6507-1:1997, *Metallic materials — Vickers hardness test — Part 1: Test method.*

ISO 6508:1986, *Metallic materials — Hardness test — Rockwell test (scales A - B - C - D - E - F - G - H - K).*