



SLOVENSKI STANDARD SIST EN ISO 7046-2:1996

01-april-1996

Vijaki z ugrezno glavo in križno zarezo - Razred izdelave A - 2. del: Jeklo trdnostnega razreda 8,8, nerjavno jeklo in neželezne kovine

Cross recessed countersunk flat head screws (common head style) - Grade A - Part 2: Steel of property class 8.8, stainless and non-ferrous metals (ISO 7046-2:1990)

Senkschrauben mit Kreuzschlitz (Einheitskopf) - Produktklasse A - Teil 2: Stahl mit Festigkeitsklasse 8.8 - Nichtrostender Stahl und Nichteisenmetalle (ISO 7046-2:1990)

Vis a métaux a tete fraisée a empreinte cruciforme - Grade A - Partie 1: Acier de classe de qualité 8.8, acier inoxydable et métaux non-ferreux (ISO 7046-2:1990)

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Ta slovenski standard je istoveten z: EN ISO 7046-2:1994

ICS:

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

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EUROPEAN STANDARD

EN ISO 7046-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 1994

UDC 621.882.215.6.091.6

Descriptors: fasteners, screws, cross recessed screws, countersunk head screws, flat head screws, specifications, dimensions, designation

English version

**Cross recessed countersunk flat head screws
(common head style) - Grade A - Part 2: Steel of
property class 8.8, stainless steel and non-ferrous
metals (ISO 7046-2:1990)**

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Vis à métaux à tête fraisée à empreinte
cruciforme - Grade A - Partie 2: Acier de
classe de qualité 8.8, acier inoxydable et
métaux non ferreux (ISO 7046-2:1990)

Senkschrauben mit Kreuzschlitz (Einheitskopf)
- Produktklasse A - Teil 2: Stahl mit
Festigkeitsklasse 8.8 - Nichtrostender Stahl
und Nichteisenmetalle (ISO 7046-2:1990)

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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.

The European Standards exist 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.

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CEN

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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Foreword

This European Standard has been taken over by the Technical Committee CEN/TC 185 "Threaded and non-threaded mechanical fasteners and accessories" from the work of ISO/TC 2 "Fasteners" of the International Organization for Standardization (ISO)

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 January 1995, and conflicting national standards shall be withdrawn at the latest by January 1995.

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

Endorsement notice

The text of the International Standard ISO 7046-2:1990 was approved by CEN as a European Standard without any modification. **iTeh STANDARD PREVIEW**
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NOTE: Normative references to international publications are listed in annex ZA (normative) <https://standards.iteh.ai/catalog/standards/sist/bbaa576e-7260-45ab-af3b-9738aca16caf/sist-en-iso-7046-2-1996>

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).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO 225	1983	Fasteners - Bolts, screws, studs-Symbols and designation 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
ISO 7721	1983	Countersunk head screws - Head configuration and gauging	EN 27721	1991
ISO 8839	1986	Mechanical properties of fasteners - Bolts, screws studs and nuts made of non-ferrous metals	EN 28839	1991

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INTERNATIONAL STANDARD

ISO 7046-2

First edition
1990-10-15

Cross recessed countersunk flat head screws (common head style) — Grade A —

Part 2 :

Steel of property class 8.8, stainless steel and non-ferrous metals

(standards.iteh.ai)

Vis à métaux à tête fraisée à empreinte cruciforme — Grade A —

Partie 2 : Acier de classe de qualité 8.8, acier inoxydable et métaux non ferreux



Reference number
ISO 7046-2 : 1990 (E)

ISO 7046-2 : 1990 (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 7046-2 was prepared by Technical Committee ISO/TC 2, *Fasteners*.

ISO 7046 consists of the following parts, under the general title *Cross recessed countersunk flat head screws (common head style) – Grade A*:

- *Part 1: Steel of property class 4.8* (future revision of ISO 7046 : 1983)
- *Part 2: Steel of property class 8.8, stainless steel and non-ferrous metals*

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Introduction

Penetration depths of cross recesses for countersunk flat head screws

The penetration depth of cross recesses for countersunk flat head screws has to satisfy two requirements which act in opposite directions for a given head dimension.

First, there is the requirement for sufficient head strength to attain the proof and breaking loads of the respective property class. A shallow cross recess increases the head strength. On the other hand, the wrenchability of the screw should be satisfactory; this can only be achieved by a sufficiently deep cross recess.

ISO 7721-2 was developed in order to find a compromise which, as far as possible, would meet both requirements.

ISO 7721-2 specifies deep cross recesses for countersunk head screws of low strength: a good wrenchability is achieved and the head strength is still sufficient. This execution will be used in ISO 7046-1 (see the foreword).

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For screws of higher strength, sufficient head strength can only be attained by a shallower penetration depth of the cross recesses. If such screws also require good wrenchability, then, under the conditions of the common head style, a shoulder has to be provided under the head, in addition to the larger penetration depth, in order to guarantee sufficient head strength. This part of ISO 7046 covers both possibilities.

This compromise, which unfortunately results in different, but interchangeable, types of cross recessed flat countersunk head screws, is at the moment the only way of reaching an agreement at the international level.