



SLOVENSKI STANDARD SIST EN ISO 10666:2001

01-julij-2001

**Pločevinski vijaki s pločevinskim navojem - Mehanske in funkcionalne lastnosti
(ISO 10666:1999)**

Drilling screws with tapping screw thread - Mechanical and functional properties (ISO 10666:1999)

Bohrschrauben mit Blehschraubengewinde - Mechanische und funktionelle Eigenschaften (ISO 10666:1999)

Vis autoperceuses avec filetage de vis a tôle - Caractéristiques mécaniques et fonctionnelles (ISO 10666:1999)

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Ta slovenski standard je istoveten z: EN ISO 10666:1999

ICS:

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

SIST EN ISO 10666:2001

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 10666

September 1999

ICS 21.060.00

English version

Drilling screws with tapping screw thread - Mechanical and functional properties (ISO 10666:1999)

Vis autoperceuses avec filetage de vis à tôle -
Caractéristiques mécaniques et fonctionnelles (ISO
10666:1999)

Bohrschrauben mit Blechschraubengewinde - Mechanische
und funktionelle Eigenschaften (ISO 10666:1999)

This European Standard was approved by CEN on 16 July 1999.

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.

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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

Foreword

The text of the International Standard ISO 10666:1999 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 2000, and conflicting national standards shall be withdrawn at the latest by March 2000.

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 10666:1999 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 1478 | 1999 | Tapping screws thread | EN ISO 1478 | 1999 |
| ISO 2702 | 1992 | Heat-treated steel tapping screws - Mechanical properties | EN ISO 2702 | 1994 |
| ISO 4042 | 1999 | Fasteners - Electroplated coatings | EN ISO 4042 | 1999 |
| ISO 6507-1 | 1997 | Metallic materials - Vickers hardness test - Part 1: Test method | EN ISO 6507-1 | 1997 |
| ISO 15330 | 1999 | Fasteners - Preloading test for the detection of hydrogen embrittlement - Parallel bearing surface method | EN ISO 15330 | 1999 |

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INTERNATIONAL
STANDARD

ISO
10666

First edition
1999-09-01

**Drilling screws with tapping screw thread —
Mechanical and functional properties**

*Vis autoperceuses avec filetage de vis à tôle — Caractéristiques mécaniques
et fonctionnelles*

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Reference number
ISO 10666:1999(E)

ISO 10666:1999(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.

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.

International Standard ISO 10666 was prepared by Technical Committee ISO/TC 2, *Fasteners*.

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Drilling screws with tapping screw thread — Mechanical and functional properties

1 Scope

This International Standard specifies the properties of heat treated screws with a tapping screw thread in accordance with ISO 1478, and which are designed with a drilling point which automatically drills the core hole for the screw during assembly. Such screws then automatically form the mating screw thread, either in a non-cutting or in a cutting operation, with the aid of the threaded portion of the screw adjoining the drilling point.

The purpose of this International Standard is to ensure that the screws are able to drill their core hole and form their mating screw thread without becoming distorted or fracturing in the process, provided that no overstressing has occurred. Consequently the following characteristics are regarded as representing the most important aspects for the assessment of the mechanical and operational characteristics of a drilling screw:

- surface hardness;
- capability of core hole drilling and forming of the mating female screw thread;
- torsional strength.

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 1478:1999, *Tapping screw thread*.

ISO 4042:1999, *Fasteners — Electroplated coatings*.

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

ISO 15330:1999, *Fasteners — Preloading test for the detection of hydrogen embrittlement — Parallel bearing surface method*.