Tehnilised joonised. Kiilude ja hammaste kujutamine

Technical drawings - Representation of splines and serrations



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 6413:1999 sisaldab Euroopa standardi EN ISO 6413:1994 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 12.12.1999 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

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This Estonian standard EVS-EN ISO 6413:1999 consists of the English text of the European standard EN ISO 6413:1994.

This standard is ratified with the order of Estonian Centre for Standardisation dated 12.12.1999 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

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ICS 01.100.20, 21.120.30

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EUROPEAN STANDARD

EN ISO 6413

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 1994

ICS 01.100.20; 21.120.30

Descriptors:

drawings, technical drawings, splines, graphic methods

English version

Technical drawings - Representation of splines and serrations (ISO 6413:1988)

Dessins techniques - Représentation des cannelures et des dentelures (ISO 6413:1988)

Technische Zeichnungen - Darstellung von Keilwellen und Kerbverzahnungen (ISO 6413:1988)

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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

Foreword

This European Standard was taken over by CEN from the work of ISO/TC 10 "Technical drawings, product definition and related documentation" of the international Standards Organization (ISO).

The Technical Board had decided to submit the final draft for Formal Vote. The result was positive.

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of an identical text or by endorsement, at the latest by April 1995, and conflicting national standards shall be withdrawn at the latest by April 1995.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 6413:1988 was approved by CEN as a European Conderd without any modification.

INTERNATIONAL STANDARD

ISO 6413



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION ORGANISATION ORGANISATION INTERNATIONALE DE NORMALISATION MEЖДУНАРОЖНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Technical drawings — Representation of splines and serrations

Technical drawings — Representation of splines and serrations

Reference number ISO 6413:1988 (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 windt to be represented on that committee. International organizations, governmental, in liaison with ISO, also take part in the work. ISO the International Electrotechnical Commission (IEC) on all indications.

Sommittees are circulated to indicate the standards by indi

Annex A forms an integral part of this International Standard.

ISO 6413: 1988 (E)

Technical drawings Representation of splines and serrations 1 Scope This International Standard specifies the rules and graphical symbols for the representations of splines and serrations on definitions apply. For the purposes of this International Standard, the following definitions apply.

technical drawings.

Two methods of representation are specified as follows:

- true representation:
- simplified representation.

The rules and graphical symbols specified in this International Standard are applicable to detail drawings of the parts (shafts and hubs) and to assembly drawings of joints.

NOTE - For uniformity all figures in this International Standard are drawn in the first-angle orthographic projection.

It should be understood that the third-angle orthographic projection could equally well have been used without prejudice to the principles established.

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 listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 14: 1982, Straight-sided splines for cylindrical shafts with internal centering — Dimensions, tolerances and verification.

ISO 128: 1982, Technical drawings - General principles of presentation.

ISO 3098-1: 1974, Technical drawings — Lettering — Part 1: Currently used characters.

ISO 3461-2: 1987, General principles for the creation of graphical symbols — Part 2: Graphical symbols for use in technical product documentation.

ISO 4156: 1981, Straight cylindrical involute splines — Metric module, side fit - Generalities, dimensions and inspection.

- spline joint: Connecting, co-axial, elements that trans-3.1 mit torque through the simulaneous engagement of equally spaced teeth situated around periphery of a cylindrical external member with similar spaced nating spaces situated around the inner surface of the related extindrical internal member. [ISO 4156: 1981]
- 3.2 involute spline: One member of a spline joint teeth or spaces that have involute flank profiles. [ISO 4156
- 3.3 straight-sided spline: One member of a spline joint having teeth or spaces that have straight-sided flank profiles.
- **3.4** serration: One member of a spline joint having teeth or spaces that generally have flank profiles of 60° pressure angle.

Designation

The designation of spline joints shall consist of the graphical symbol of the type and the designation of joint specified in the relevant International Standard (see clause 2) or any other standard dealing with this subject.

Graphical symbols

The type of spline joint is indicated by graphical symbols.

The graphical symbols for the straight-sided spline (see ISO 14) are shown in figure 1 and for the involute spline (see ISO 4156) and for serrations are shown in figure 2.



Figure 1

Figure 2

The proportion and dimensions of the graphical symbols are specified in annex A.