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Technical product documentation - Representation of splines and serrations (ISO 6413:2018)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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Technical product documentation - Representation of
splines and serrations (ISO 6413:2018)

Documentation technique de produits - Représentation
des cannelures et des dentelures (ISO 6413:2018)

Technische Produktdokumentation - Darstellungen
von Keilwellen und Kerbverzahnungen (ISO
6413:2018)

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European foreword

This document (EN ISO 6413:2018) has been prepared by Technical Committee ISO/TC 10 "Technical product documentation" in collaboration with Technical Committee CEN/SS F01 "Technical drawings" the secretariat of which is held by CCMC.

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of an identical text or by endorsement, at the latest by April 2019, and conflicting national standards shall be withdrawn at the latest by April 2019.

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INTERNATIONAL
STANDARD

ISO
6413

Second edition
2018-09

**Technical product documentation —
Representation of splines and
serrations**

*Documentation technique de produits — Représentation des
cannelures et des dentelures*



Reference number
ISO 6413:2018(E)

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 10, *Technical product documentation*, Subcommittee SC 6, *Mechanical engineering documentation*.

This second edition cancels and replaces the first edition (ISO 6413:1988), which has been technically revised. The following changes have been made:

- title changed from *Technical drawings — Representation of splines and serrations* to *Technical product documentation — Representation of splines and serrations*;
- Introduction added;
- normative references reviewed;
- figures improved and titles added.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

The representations of splines in technical product documentation are different from those used in mechanical drawings. In mechanical drawings, the drawings of spline teeth are complicated.

This document improves the efficiency of drawing.

Technical product documentation — Representation of splines and serrations

1 Scope

This document specifies the rules and graphical symbols for the representations of splines and serrations in technical product documentation.

Two methods of representation are specified:

- a) complete representation;
- b) simplified representation.

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

NOTE For uniformity, all the figures in this document have been drawn in the first-angle orthographic projection. A third-angle orthographic projection could equally have been used without prejudice to principles established.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 128-24:2014, *Technical drawings — General principles of presentation — Part 24: Lines on mechanical engineering drawings*

ISO 3098-2, *Technical product documentation — Lettering — Part 2: Latin alphabet, numerals and marks*

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