

**SLOVENSKI STANDARD**  
**SIST EN ISO 14660-2:2002****01-januar-2002**

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**Geometrical Product Specifications (GPS) - Geometrical features - Part 2:  
Extracted median line of a cylinder and a cone, extracted median surface, local  
size of an extracted feature (ISO 14660-2:1999)**

Geometrical Product Specifications (GPS) - Geometrical features - Part 2: Extracted median line of a cylinder and a cone, extracted median surface, local size of an extracted feature (ISO 14660-2:1999)

Geometrische Produktspezifikation (GPS) - Geometrielemente - Teil 2: Erfasste mittlere Linie eines Zylinders und eines Kegels, erfasste mittlere Fläche, örtliches Maß eines erfassten Geometrieelementes (ISO 14660-2:1999)

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Spécification géométrique des produits (GPS) - Eléments géométriques - Partie 2: Ligne médiane extraite d'un cylindre et d'un cône, surface médiane extraite, taille locale d'un élément extrait (ISO 14660-2:1999)

**Ta slovenski standard je istoveten z: EN ISO 14660-2:1999**

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**ICS:**

01.040.17	Meroslovje in merjenje. Fizikalni pojavi (Slovarji)	Metrology and measurement. Physical phenomena (Vocabularies)
17.040.40	Specifikacija geometrijskih veličin izdelka (GPS)	Geometrical Product Specification (GPS)

**SIST EN ISO 14660-2:2002****en**

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EUROPEAN STANDARD  
 NORME EUROPÉENNE  
 EUROPÄISCHE NORM

**EN ISO 14660-2**

October 1999

ICS 01.040.70; 17.040.10

English version

**Geometrical Product Specifications (GPS) - Geometrical features - Part 2: Extracted median line of a cylinder and a cone, extracted median surface, local size of an extracted feature (ISO 14660-2:1999)**

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Geometrische Produktspezifikation (GPS) - Geometrieelemente - Teil 2: Erfaßte mittlere Linie eines Zylinders und eines Kegels, erfaßte mittlere Fläche, örtliches Maß eines erfaßten Geometrieelementes (ISO 14660-2:1999)

This European Standard was approved by CEN on 20 August 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.

[SIST EN ISO 14660-2:2002](https://standards.iteh.ai/catalog/standards/cist/9845a800-01d5-4100-9f91-https://standards.iteh.ai/catalog/standards/cist/9845a800-01d5-4100-9f91)

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
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 EUROPÄISCHES KOMITEE FÜR NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

**EN ISO 14660-2:1999****Foreword**

The text of the International Standard ISO 14660-2:1999 has been prepared by Technical Committee ISO/TC 213 "Dimensional and geometrical product specifications and verification" in collaboration with Technical Committee CEN/TC 290 "Dimensional and geometrical product specification and verification", 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 April 2000, and conflicting national standards shall be withdrawn at the latest by April 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 14660-2:1999 was approved by CEN as a European Standard without any modification.

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# INTERNATIONAL STANDARD

# ISO 14660-2

First edition  
1999-10-01

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## Geometrical Product Specifications (GPS) — Geometrical features —

### Part 2:

Extracted median line of a cylinder and  
a cone, extracted median surface, local size of  
(an extracted feature)

<https://standards.iteh.ai/catalog/standards/sist/9845e8e9-c4d5-4b0c-9591-b2a183211166/iso-14660-2:1999>

Spécification géométrique des produits (GPS) — Éléments géométriques —

Partie 2: Ligne médiane extraite d'un cylindre et d'un cône, surface médiane extraite, taille locale d'un élément extrait



Reference number  
ISO 14660-2:1999(E)

**ISO 14660-2:1999(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 14660-2 was prepared by Technical Committee ISO/TC 213, *Dimensional and geometrical product specifications and verification*.

ISO 14660 consists of the following parts, under the general title *Geometrical product specifications (GPS) — Geometrical features*:

- *Part 1: General terms and definitions*
- *Part 2: Extracted median line of a cylinder and a cone, extracted median surface, local size of an extracted feature*

Annex A of this part of ISO 14660 is for information only.

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International Organization for Standardization  
Case postale 56 • CH-1211 Genève 20 • Switzerland  
Internet iso@iso.ch

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## Introduction

This part of ISO 14660 is a geometrical product specification (GPS) standard and is to be regarded as a general GPS standard (see ISO/TR 14638). It influences chain link 3 of the Size, Form of line — Derived feature, Form of surface — Derived feature, Orientation — Derived feature and Location — Derived feature chains of standards in the general GPS matrix.

For more detailed information on the relation of this part of ISO 14660 to other standards and the GPS matrix model, see annex A.

Geometrical features exist in three “worlds”:

- the world of specification, where several representations of the future workpiece are imagined by the designer;
- the world of the workpiece, the physical world;
- the world of inspection, where a representation of a given workpiece is used through sampling of the workpiece by measuring instruments.

It is important to understand the relationship between these three worlds. ISO 14660 defines standardized terminology for geometrical features in each world as well as standardized terminology for the relationship and communication between each world.

This part of ISO 14660 is part 2 of a series of standards under preparation dealing with geometrical feature definitions.

Extracted features are not geometrical perfect and need further detailed definitions compared to the corresponding nominal features to be unambiguous defined and correctly understood.

It is the intention that the same detailed definition of an extracted feature is valid in all chains of standards where the feature or characteristic is used. Therefore the definitions given in this part of ISO 14660 are in force wherever they apply in the general GPS matrix.

For the purposes of this part of ISO 14660, the following line types have been used in the illustrations:

Feature type	Line type
<ul style="list-style-type: none"> <li>• extracted surface</li> <li>• extracted line (integral features)</li> </ul>	wide dotted line
<ul style="list-style-type: none"> <li>• extracted median surface</li> <li>• extracted median line (derived features)</li> </ul>	narrow dotted line
<ul style="list-style-type: none"> <li>• associated plane of a extracted (integral) surface</li> <li>• associated line in a extracted (integral) surface</li> </ul>	wide dashed dotted line
<ul style="list-style-type: none"> <li>• associated median plane, associated axis (derived features)</li> </ul>	narrow dashed dotted line
<ul style="list-style-type: none"> <li>• real surface (outline)</li> </ul>	continuous wide line
<ul style="list-style-type: none"> <li>• nominal features (technical drawings in illustrations)</li> </ul>	in accordance with ISO 128-24

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# Geometrical Product Specifications (GPS) — Geometrical features —

## Part 2:

Extracted median line of a cylinder and a cone, extracted median surface, local size of an extracted feature

### 1 Scope

This part of ISO 14660 defines a number of extracted features of workpieces. It specifies conditions for default definitions, i.e. when no other definitions are specified on the drawing by an extended feature indication. This part of ISO 14660 does not give further definitions, for the extracted feature in question, which would require extended drawing indications.

### 2 Normative reference

[SIST EN ISO 14660-2:2002](https://standards.iteh.ai/catalog/standards/sist/9845e8e9-c4d5-4b0c-9591-b8299c83dbdf/sist-en-iso-14660-2-2002)

The following normative document contains provisions which, through reference in this text, constitute provisions of this part of ISO 14660. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 14660 are encouraged to investigate the possibility of applying the most recent edition of the normative document 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 14660-1:1999, *Geometrical product specifications (GPS) — Geometrical features — Part 1: General terms and definitions*.

### 3 Terms and definitions

For the purposes of this part of ISO 14660, the terms and definitions given in ISO 14660-1 and the following apply.

#### 3.1

##### **default definition (of an extracted feature)**

detailed supplementary definition, selected by convention, of the extracted feature concerned, which is applicable only by using the basic ISO tolerance indication on the drawing or in other technical documents

NOTE 1 The basic ISO tolerance indications are those given in, for example, ISO 286-1, ISO 1101 and ISO 1302.

NOTE 2 The default definition (of an extracted feature) can be changed to a special definition by adding an extension to the basic ISO tolerance indication. Such extensions are under development.