



**SLOVENSKI STANDARD**  
**SIST EN ISO 14660-1:2002**  
**01-januar-2002**

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**Geometrical Product Specifications (GPS) - Geometrical features - Part 1: General terms and definitions (ISO 14660-1:1999)**

Geometrical Product Specifications (GPS) - Geometrical features - Part 1: General terms and definitions (ISO 14660-1:1999)

Geometrische Produktspezifikation (GPS) - Geometrieelemente - Teil 1: Grundbegriffe und Definitionen (ISO 14660-1:1999)

Spécification géométrique des produits (GPS) - Eléments géométriques - Partie 1: Termes généraux et définitions (ISO 14660-1:1999)

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**Ta slovenski standard je istoveten z: EN ISO 14660-1:1999**

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**ICS:**

01.040.17	Meroslovje in merjenje. Fizikalni pojavi (Slovarji)	Metrology and measurement. Physical phenomena (Vocabularies)
17.040.01	Linearne in kotne meritve na splošno	Linear and angular measurements in general

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**en,fr**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN ISO 14660-1

October 1999

ICS 01.040.70; 17.040.10

English version

Geometrical Product Specifications (GPS) - Geometrical  
features - Part 1: General terms and definitions (ISO 14660-  
1:1999)

Spécification géométrique des produits (GPS) - Eléments  
géométriques - Partie 1: Termes généraux et définitions  
(ISO 14660-1:1999)

Geometrische Produktspezifikation (GPS) -  
Geometrielemente - Teil 1: Grundbegriffe und Definitionen  
(ISO 14660-1:1999)

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.

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

**EN ISO 14660-1:1999****Foreword**

The text of the International Standard ISO 14660-1:1999 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 14660-1:1999 was approved by CEN as a European Standard without any modification.

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INTERNATIONAL  
STANDARD

**ISO**  
**14660-1**

NORME  
INTERNATIONALE

First edition  
Première édition  
1999-10-01

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

**Part 1:**  
General terms and definitions

**Spécification géométrique des produits (GPS) —  
Éléments géométriques —**

**Partie 1:**  
Termes généraux et définitions

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Reference number  
Numéro de référence  
ISO 14660-1:1999(E/F)

## ISO 14660-1:1999(E/F)

## 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 14660-1 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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## Avant-propos

L'ISO (Organisation internationale de normalisation) est une fédération mondiale d'organismes nationaux de normalisation (comités membres de l'ISO). L'élaboration des Normes internationales est en général confiée aux comités techniques de l'ISO. Chaque comité membre intéressé par une étude a le droit de faire partie du comité technique créé à cet effet. Les organisations internationales, gouvernementales et non gouvernementales, en liaison avec l'ISO, participent également aux travaux. L'ISO collabore étroitement avec la Commission électrotechnique internationale (CEI) en ce qui concerne la normalisation électrotechnique.

Les Normes internationales sont rédigées conformément aux règles données dans les Directives ISO/CEI, Partie 3.

Les projets de Normes internationales adoptés par les comités techniques sont soumis aux comités membres pour vote. Leur publication comme Normes internationales requiert l'approbation de 75 % au moins des comités membres votants.

La Norme internationale ISO 14660-1 a été élaborée par le comité technique ISO/TC 213, *Spécifications et vérification dimensionnelles et géométriques des produits*.

L'ISO 14660 comprend les parties suivantes, présentées sous le titre général *Spécification géométrique des produits (GPS) — Éléments géométriques*:

— *Partie 1: Termes généraux et définitions*

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

L'annexe A de la présente partie de l'ISO 14660 est donnée uniquement à titre d'information.

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## Introduction

This part of ISO 14660 is a geometrical product specification (GPS) standard and is to be regarded as a global GPS standard (see ISO/TR 14638). It influences all chain links in all 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 communicating the relationship between each world.

This part of ISO 14660 is part 1 of a series of standards under preparation dealing with definitions of geometrical features (GPS features).

For the purposes of this part of ISO 14660, the terms “axis” and “median plane” are used for derived features of perfect form, and the terms “median line” and “median surface” for derived features of imperfect form.

Furthermore, 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 an extracted (integral) surface</li> <li>• associated line in an 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