INTERNATIONAL STANDARD

ISO 14660-2

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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

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



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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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
•	extracted surface	wide dotted line
•	extracted line (integral features)	
•	extracted median surface	narrow dotted line
•	extracted median line (derived features)	
•	associated plane of a extracted (integral) surface	wide dashed dotted line
•	associated line in a extracted (integral) surface	
•	associated median plane, associated axis (derived features)	narrow dashed dotted line
•	real surface (outline)	continuous wide line
•	nominal features (technical drawings in illustrations)	in accordance with ISO 128-24