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(JSA)

**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**

ICS 01.040.17; 01.100.20; 17.040.01

Reference number : JIS B 0672-2 : 2002 (E)

Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal of establishing a Japanese Industrial Standard from the Japanese Standards Association (JSA), with a draft of Industrial Standard based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

JIS B 0672 group consists of the following two parts with 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

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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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

Introduction This part of JIS B 0672 has been prepared based on the first edition of ISO 14660-2 *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* published in 1999 without modifying the technical contents.

This part of JIS B 0672 is a geometrical product specification (GPS) standard.

For more detailed information on the relation of this part of JIS B 0672 to other standards and the GPS matrix model, see annex A(informative).

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. JIS B 0672 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 JIS B 0672 is part 2 of a series of standards 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 JIS B 0672 are in force wherever they apply in the general GPS matrix.

For the purposes of this part of JIS B 0672, the following line types have been used in the illustrations:

Feature type	Line type
● extracted surface ● extracted line (integral features)	wide dotted line
● extracted median surface ● extracted median line (derived features)	narrow dotted line
● associated plane of an extracted (integral) surface ● associated line in an extracted (integral) surface	wide dashed dotted line
● 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

1 Scope This part of **JIS B 0672** 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 **JIS B 0672** does not give further definitions, for the extracted feature in question, which would require extended drawing indications.

Note : The International Standard corresponding to this Standard is as follows.

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21**.

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 (IDT)*

2 Normative reference The following standard contains provisions which, through reference in this Standard, constitute provisions of this Standard. The most recent edition of the standard (including amendments) indicated below shall be applied.

JIS B 0672-1 *Geometrical Product Specifications (GPS) – Geometrical features – Part 1 : General terms and definitions*

Note : **ISO 14660-1 : 1999** *Geometrical Product Specifications (GPS) – Geometrical features – Part 1 : General terms and definitions* is identical with the said standard.

3 Terms and definitions For the purposes of this part of **JIS B 0672**, the terms and definitions given in **JIS B 0672-1** 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

Notes 1 The basic **ISO** tolerance indications are those given in, for example, **JIS B 0401-1**, **JIS B 0021** and **JIS B 0031**.

2 The default definition (of an extracted feature) can be changed to a special