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Geometrical Product Specifications (GPS)—Series of angles and slopes on prisms

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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee, as the result of proposal for revision of Japanese Industrial Standard submitted by the Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14. Consequently **JIS B 0615** : 1982 is replaced with this Standard.

This revision has been prepared as a result of the revision of the corresponding International Standard, **ISO 2538** : 1998 *Geometrical Product Specifications (GPS)—Series of angles and slopes on prisms*.

Date of Establishment: 1982-06-15

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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)—Series of angles and slopes on prisms

Introduction This Japanese Industrial Standard has been prepared based on the second edition of **ISO 2538** *Geometrical Product Specifications (GPS)—Series of angles and slopes on prisms* published in 1998 without modifying the technical contents.

Portions underlined with dots in this Standard are the matters not included in the original International Standard.

This Standard is a geometrical product specification (GPS) standard and is to be regarded as a general GPS standard. It influences chain links 1 and 2 of the chain of standards on angle.

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

Remarks : **TR B 0007** is identical with **ISO/TR 14638** *Geometrical product specifications (GPS)—Masterplan*.

1 Scope This Standard specifies two series of prism angles from 120° to 0° 30′ and a series of prism slopes from 1 : 10 to 1 : 500, for general mechanical engineering purposes.

Remarks : The International Standard corresponding to this Standard is given below.

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

ISO 2538 : 1998 *Geometrical Product Specifications (GPS)—Series of angles and slopes on prisms* (IDT)

2 Definitions For the purposes of this Standard, the following definitions apply.

2.1 prism part of a piece which is limited by two intersecting planes (see figure 1)

NOTE : Both planes are termed “prism planes”. When these are intended for fits, they are termed “mating planes for the prism”.

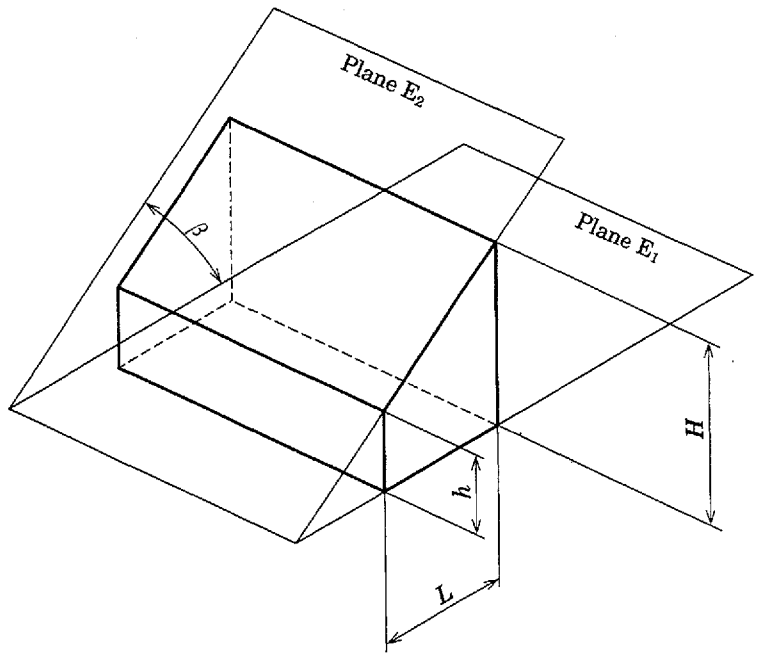

Figure 1 Prism or wedge

2.2 multiple prism part of a piece which is limited by several pairs of intersecting planes (see figure 2)

NOTES 1 A double prism is limited by two pairs of intersecting planes.

2 When the intersection of each pair of planes is a point, the multiple prism is a pyramid (see figure 3).

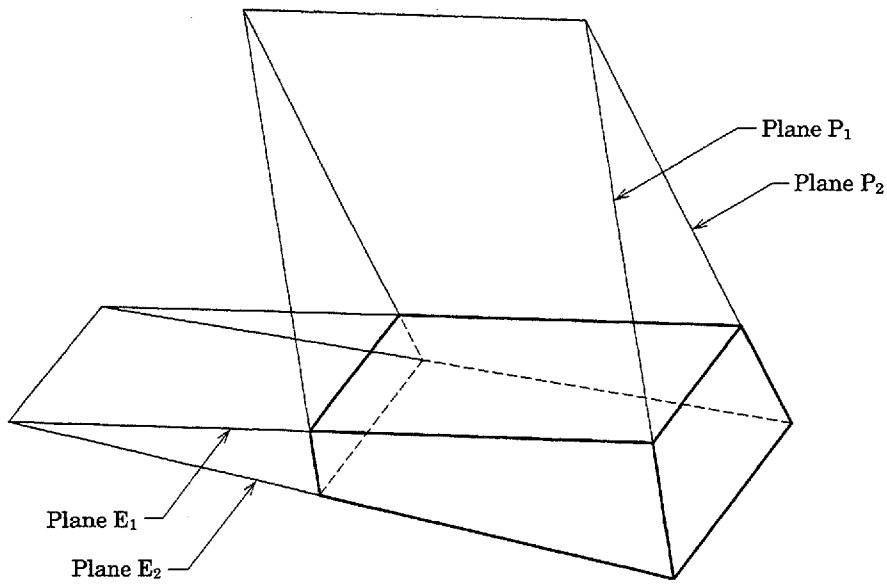

Figure 2 Multiple (double) prism