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(JSA)

Technical drawings — Dimensioning and tolerancing — Cones

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Foreword

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

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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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Technical drawings — Dimensioning and tolerancing — Cones

Introduction This Japanese Industrial Standard has been prepared based on the second edition of **ISO 3040** *Technical drawings — Dimensioning and tolerancing — Cones* published in 1990 without modifying the technical contents.

In this Standard the figures illustrate the text only and should not be considered as design examples. For this reason, the figures are simplified and are not to scale.

The portion underlined with dots is the matter not stated in the original International Standard.

1 Scope This Standard establishes the definition of cones and specifies the graphical symbol to be used for their indication and methods for their dimensioning and tolerancing.

For the purposes of this Standard, the term "cone" relates to right-angle ⁽¹⁾ circular cones only.

Note ⁽¹⁾ See No. 204 specified in JIS B 0154.

- Remarks**
1. For simplicity, only truncated cones have been represented in this Standard. However, this Standard can be applied to any type of cone within its scope.
 2. This Standard is not intended to prevent the use of other methods of dimensioning and tolerancing.

2 Normative references The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. The most recent edition of the standards shall be applied.

JIS B 0612 *Conical tapers*

Remarks: Items cited from **ISO 1119:1975** *Series of conical tapers and taper angles* are equivalent to the corresponding matters of the said standard.

ISO 3461-2:1987 *General principles for the creation of graphical symbols — Part 2: Graphical symbols for use in technical product documentation*

3 Definition For the purposes of this Standard, the following definition applies.

rate of taper *C*: Ratio of the difference in the diameters of two sections of a cone to the distance between them. It is expressed by the following formula (see also Fig. 1):

$$C = \frac{D - d}{L} = 2 \tan\left(\frac{\alpha}{2}\right)$$