

JIS

JAPANESE INDUSTRIAL STANDARD

General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications

JIS B 0405—1991
(ISO 2768—1 : 1989)

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individual tolerance indications

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B 0405-1991
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Foreward as the Japanese Industrial Standard

This Standard is the Japanese Industrial Standard drawn up without changing the technical contents and the form of copy of standard, translating the ISO 2768-1 (General tolerances—Part 1: Tolerances for linear and angular dimensions without individual tolerance indications) published on 1989 as the first edition.

Furthermore, "Informative References" underlined (dotted lines) in this Standard are the matters not included in the original International Standard.

Introduction

All features on component parts always have a size and a geometrical shape. For the deviation of size and for the deviations of the geometrical characteristics (form, orientation and location) the function of the part requires limitations which, when exceeded, impair this function.

The tolerancing on the drawing should be complete to ensure that the elements of size and geometry of all features are controlled, i.e. nothing shall be implied or left to judgement in the workshop or in the inspection department.

The use of general tolerances for size and geometry simplifies the task of ensuring that this prerequisite is met.

1. Scope

This Standard is intended to simplify drawing indications, and it specifies general tolerances for linear and angular dimensions without individual indications in four tolerance classes.

Remarks 1. The concepts behind the general tolerancing of linear and angular dimensions are described in Annex A.

This Standard applies to the dimensions of parts which have been produced by metal removal or parts which have been formed from sheet metal.

2. These tolerances may be suitable for use with materials other than metal.

3. Similar standards exist or are planned. For example, see JIS B 0403 for castings.

Informative reference: JIS B 0403-1987 is the International Conforming Standard of ISO 8062: 1984 (Castings-System of dimensional tolerances).

This Standard only applies to the following dimensions without individual tolerance indications: