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**JIS B 0162-4** : 2006

(JSME/JSA)

**Plain bearings—  
Terms, definitions and classification—  
Part 4 : Calculation parameters and  
their symbol**

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ICS 01.040.21; 21.100.10

Reference number : JIS B 0162-4 : 2006 (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 Japan Society of Mechanical Engineers (JSME)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

This Standard has been made based on **ISO 4378-4 : 1997** *Plain bearings—Terms, definitions and classification—Part 4 : Calculation parameters and their symbol* for the purposes of making it easier to compare this Standard with International Standard; to prepare Japanese Industrial Standard conforming with International Standard; and to propose a draft of an International Standard which is based on Japanese Industrial Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

**JIS B 0162** series consists of the following parts under the general title “*Plain bearings—Terms, definitions and classification*”

*Part 1 : Design, bearing materials and their properties*

*Part 2 : Friction and wear*

*Part 3 : Lubrication*

*Part 4 : Calculation parameters and their symbol*

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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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## Contents

	Page
Introduction .....	1
1 Scope .....	1
2 Classification .....	1
3 Terms and definitions .....	1
Annex (informative) Comparison table between JIS and corresponding International Standard .....	13
Alphabetical index .....	19

# Plain bearings—Terms, definitions and classification—Part 4 : Calculation parameters and their symbol

**Introduction** This Japanese Industrial Standard has been prepared based on the first edition of **ISO 4378-4** *Plain bearings—Terms, definitions and classification—Part 4 : Calculation parameters and their symbol* published in 1997 with some modifications of the technical contents.

The portions given sidelines or dotted underlines are the matters in which the contents of the original International Standard have been modified. A list of modifications with explanations is given in Annex (informative).

**1 Scope** This part of **JIS B 0162** defines the parameters, with their symbol, most commonly used in plain bearings calculations.

NOTE : The International Standard corresponding to this part of **JIS B 0162** is as follows.

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

ISO 4378-4 : 1997 *Plain bearings—Terms, definitions and classification—Part 4 : Calculation parameters and their symbol* (MOD)

## 2 Classification

- a) **Fixed system of coordinates**
- b) **Geometrical parameters**
- c) **Tribological parameters of a plain bearing unit**
- d) **Parameters of the lubricant**
- e) **Parameters of the bearing**
- f) **Parameters of the bearing housing**

**3 Terms and definitions** The terms and definitions shall be as given in the following.

In addition, English equivalents are given for information.

NOTES 1 In the case where two terms connected with “,” are given together in the term and English equivalent (informative) columns, these should be employed with priority according to the order.

2 In the case where a term and a part of a term are appended with parentheses “( )” in the term and English equivalent (informative) columns, these are terms used based on **ISO** standard.

3 The part appended with parentheses “( )” in the definition column is the content which supplements the content of definition.