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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 7811-2015

Replacing GB/T 7811-2007

Rolling bearings -- Symbols for physical quantities

滚动轴承 参数符号

(English Translation)

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Table of Contents

Introduction
1 Scope
2 Normative references
3 Terms and definitions
4 Parameter Symbol
4.1 Symbology Rule
Symbol 4.2 - Structure
4.3 Basic Symbols
4.4 Subscript
4.5 Print, copy, symbol fonts
5 Parameter Symbol Classification
Definition 6 parameters
7 Square brackets using
8 Represents a parameter symbols
9 Index

Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard replaces GB/T 7811-2007 "Rolling parameter symbol", compared with the present standard GB/T 7811-2007, in addition to editing Modifications, mainly technical changes are as follows.

- Modify some normative references (see Chapter 2, Section 2 of the 2007 edition);
- Increased terms and definitions (see Chapter 3);
- Modification and deletion of some parameter symbols (see Table 1 to Table 10, the 2007 edition of the Tables 1 to 10).

This standard uses the translation method identical with ISO 15241:2012 (E) "Rolling Parameter Symbol." Correspondence between the consistency of the standards of international documents and normative references of the following documents.

- GB/T 4199-2003 Rolling defined tolerances (ISO 1132-1:2000, MOD)
- GB/T 6391-2010 Rolling bearings - Dynamic load ratings and rating life (ISO 281:2007,

IDT)

--- GB/T 6930-2002 Rolling Vocabulary (ISO 5593:1997, IDT) the standard proposed by China Machinery Industry Federation.

This standard by the National Standardization Technical Committee of Rolling (SAC/TC98) centralized.

This standard was drafted. Luoyang Bearing Research Institute Co., Ltd., Zhongshan City, Pacific Century Bearing Manufacturing Co., Ltd., Luoyang Bearing Science & Technology shares have Limited.

1 Scope

This standard specifies the method for rolling bearing symbols of size, dimensional tolerances, precision, rated load, life and other parameters. These symbols Mainly used for rolling bearing standards and documents, but also for product samples, charts and manuals and other printed matter which.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

ISO 281 Rolling bearings - Dynamic load ratings and rating life
(Rollingbearings-Dynamicloadratingsandrating life) ISO 1132-1 Rolling tolerances - Part 1.
Terms and definitions (Rollingbearings-Tolerances-Part 1.

Termsanddefinitions) ISO 5593 Rolling vocabulary (Rollingbearings-Vocabulary) ISO
80000-1 quantities and units - Part 1. General Theory (Quantitiesandunits-Part 1. General)
ISO 80000-2 quantities and units - Part 2. natural science and technology used in the
mathematical signs and symbols (Quantitiesand units-Part 2.
Mathematicalsignsandsymbolstobeusedinthenaturalsciencesandtechnology)

3 Terms and Definitions

ISO 281, ISO 1132-1, ISO 5593 defining the terms and definitions apply to this document.

4.1 Symbolology rules

The following rules apply to this standard.

--- Under normal circumstances, the symbolic system rules consistent with the provisions of ISO 80000-1 and ISO 80000-2;

Parameter Symbol --- for a rolling bearing according to the physical meaning of the

provisions, but also includes coefficient, factor, dimensionless parameters, numerical symbols, also Including mathematical variables, such as the probability of (n);

--- Should not be used under the underlying index, such as Vdmp subscript letters "dmp" should be printed the same size, should form Vdmp Using (see Figure 1);

--- Should not be used on the label.

V d mp

Other index (Traditional) A parameter representing the index (in italics) the basic symbol (in italics)

Figure 1 Symbol Rules