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**Ball splines — Part 1: General
characteristics and requirements**

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In the event of any doubts arising as to the contents,
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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 for establishment of Japanese Industrial Standard submitted by Japan Machine Accessory Association (JMAA)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

Consequently **JIS B 1193:2004** has been withdrawn and partially replaced with this Standard.

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Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, applications for a patent after opening to the public or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, applications for a patent after opening to the public or utility model rights.

JIS B 1193 series consists of the following 2 parts under the general title "*Ball splines*":

Part 1: General characteristics and requirements

Part 2: Dynamic and static load ratings and rating life

Ball splines — Part 1 : General characteristics and requirements

Introduction

This Japanese Industrial Standard has been prepared based on the first edition of **ISO 23848-1** published in 2009 without any modifications of the technical contents except the modification of configuration such as the addition of the quantifier.

The portions with continuous sidelines or dotted underlines are the matters in which the contents of the corresponding International Standard have been modified. A list of modifications with the explanations is given in Annex JA.

1 Scope

This Standard specifies the characteristics and the following matters of ball splines.

- Shapes and dimensions
- Test methods
- Inspections
- Designations of products
- Marking

NOTE : The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 23848-1 : 2009 *Machine tools — Ball splines — Part 1 : General characteristics and requirements* (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) listed below shall be applied.

JIS B 7725 *Vickers hardness test — Verification and calibration of testing machines*

NOTE : Corresponding International Standard : **ISO 6507-2** *Metallic materials — Vickers hardness test — Part 2 : Verification and calibration of testing machines* (MOD)

JIS Z 2244 *Vickers hardness test — Test method*