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**Curvilinear toothed synchronous belt
drive systems for general power
transmission — Part 1: Belt**

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Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by The Japan Belting Manufacturers Association (JBMA)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14. Consequently **JIS B 1857-1 : 2001** is replaced with this Standard.

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JIS B 1857 series consists of the following 2 parts under the general title *Curvilinear toothed synchronous belt drive systems for general power transmission* — :

Part 1 : Belt

Part 2 : Pulley

Curvilinear toothed synchronous belt drive systems for general power transmission — Part 1 : Belt

Introduction

This Japanese Industrial Standard has been prepared based on ISO 13050 : 2014 with some modification of the technical contents to reflect the types of products manufactured and sold in Japan.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JA.

1 Scope

This Standard specifies requirements for the seamless bonded curvilinear toothed synchronous belts generally used for power transmission (hereafter referred to as belts). It does not apply to synchronous belts for automobiles.

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

ISO 13050 : 2014 *Synchronous belt drives — Metric pitch, curvilinear profile systems G, H, R and S, belts and pulleys* (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.

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) indicated below shall be applied.

JIS B 1857-2 *Curvilinear toothed synchronous belt drive systems for general power transmission — Part 2 : Pulley*

JIS B 1859 *Synchronous belt drives — Vocabulary*

JIS B 7507 *Vernier, dial and digital callipers*

3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in **JIS B 1859**, and the following apply.

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nominal pitch length