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**Guidelines for the selection of roller chain
drives**

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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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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 Japan Chain Association (JCA)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS B 1810** : 2018), which has been technically revised.

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Guidelines for the selection of roller chain drives

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 10823** : 2004, Edition 2, with some modifications of the technical contents to meet the local needs 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 gives guidelines for the selection of chain drives composed of short-pitch transmission precision roller chains and bush chains conformant with **JIS B 1801** (hereafter referred to as chains) and sprockets.

Example of selection procedure of chain drive is provided in Annex A, and the formula for calculating maximum kW rating of chains, in Annex B.

Owing to the wide variations in loading characteristics, environmental conditions and achieved maintenance, there may be cases where this Standard is not applicable; in this case, the supplier of the chains shall be consulted.

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

ISO 10823 : 2004 *Guidelines for the selection of roller chain drives*(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

Part or all of the provisions of the following standards, 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 1801 *Short-pitch transmission precision roller chains and bush chains*

NOTE Normative reference in the corresponding International Standard: ISO 606 *Short-pitch transmission precision roller and bush chains, attachments and associated chain sprockets*

JIS B 1812 *Glossary of terms relating to chains, sprockets and accessories*