



JAPANESE  
INDUSTRIAL  
STANDARD

Translated and Published by  
Japanese Standards Association

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JIS A 8340-2 : 2012

(JCMA/JSA)

**Earth-moving machinery — Safety —  
Part 2: Requirements for bulldozers**

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ICS 13.300;53.100

Reference number : JIS A 8340-2 : 2012 (E)

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Date of Establishment: 2007-03-25

Date of Revision: 2012-12-25

Date of Public Notice in Official Gazette: 2012-12-25

Investigated by: Japanese Industrial Standards Committee

Standards Board

Technical Committee on Industrial Machinery

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JIS A 8340-2 : 2012, First English edition published in 2013-10

Translated and published by: Japanese Standards Association

4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

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In the event of any doubts arising as to the contents,  
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Printed in Japan

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## Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Health, Labour and Welfare and the Minister of Economy, Trade and Industry, through deliberations at the Japanese Industrial Standards Committee as the result of proposal of revision of Japanese Industrial Standard submitted by Japan Construction Machinery and Construction Association (JCMA)/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 A 8340-2 : 2007** is replaced with this Standard.

This **JIS** document is protected by the Copyright Law.

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 Ministers 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 A 8340** series consists of the following six parts under the general title “*Earth-moving machinery—Safety*”:

*Part 1: General requirements*

*Part 2: Requirements for bulldozers*

*Part 3: Requirements for loaders*

*Part 4: Requirements for hydraulic excavators*

*Part 5: Requirements for dumpers*

*Part 6: Requirements for cable excavators*

*Part 7: Requirements for graders*

## Earth-moving machinery — Safety — Part 2 : Requirements for bulldozers

### Introduction

This Japanese Industrial Standard has been prepared based on the first edition of **ISO 20474-2** published in 2008 with some modifications of the technical contents.

The portions given sidelines or dotted underlines are the matters in which the contents of the corresponding International Standard have been modified. A list of modifications with explanations is given in Annex JC. Annex JA and Annex JB are not contained in the corresponding International Standard.

This Standard is a type-C standard (machine safety standards) as stated in **JIS B 9700-1**.

The machinery concerned and the extent to which hazards, hazardous situations or hazardous events are covered are indicated in the scope of this Standard.

When requirements of this type-C standard are different from those which are stated in type-A or -B standards, the requirements of this type-C standard take precedence over the requirements of other standards.

### 1 Scope

This Standard gives the safety requirements specific to crawler bulldozers as defined in **JIS A 8308**, as well as those for derivated machinery and for rear-mounted winches on dozers.

Snow removing bulldozers are specified in a separate standard.

This Standard is intended to be used in conjunction with **JIS A 8340-1**, which specifies general safety requirements common to earth-moving machine families. The specific requirements given in this Standard take precedence over the general requirements of **JIS A 8340-1**. This Standard deals with all significant hazards, hazardous situations and events relevant to the bulldozers within its scope when used as intended for under conditions of misuse reasonably foreseeable by the manufacturer (see Annex JA of this Standard and Annex JA of **JIS A 8340-1**). It specifies the appropriate technical measures for eliminating or reducing risks arising from significant hazards, hazardous situations or events during commissioning, operation and maintenance.

Any bulldozer to travel on public roads shall also comply with the laws and regulations relevant to road traffic provided by the national or local government.

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

ISO 20474-2 : 2008 *Earth-moving machinery — Safety — Part 2 : Requirements for tractor-dozers* (MOD)

The symbols which denote the degree of correspondence in the contents in the corresponding 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) indicated below shall be applied.

JIS A 8308 *Earth-moving machinery — Basic types — Vocabulary*

NOTE : Corresponding International Standard : **ISO 6165** : 2006 *Earth-moving machinery — Basic types — Identification and terms and definitions* (MOD)

JIS A 8310-2 *Earth-moving machinery — Symbols for operator controls and other displays — Part 2 : Specific symbols for machines, equipment and accessories*

NOTE : Corresponding International Standard : **ISO 6405-2** : 1993 *Earth-moving machinery — Symbols for operator controls and other displays — Part 2 : Specific symbols for machines, equipment and accessories* (MOD)

JIS A 8312 *Earth-moving machinery — Safety signs and hazard pictorials — General principles*

NOTE : Corresponding International Standard : **ISO 9244** *Earth-moving machinery — Machine safety labels — General principles* (MOD)

JIS A 8315 *Earth-moving machinery — Physical dimensions of operators and minimum operator space envelope*

NOTE : Corresponding International Standard : **ISO 3411** : 2007 *Earth-moving machinery — Physical dimensions of operators and minimum operator space envelope* (IDT)

JIS A 8317-1 *Earth-moving machinery — Determination of sound power level — Dynamic test conditions*

JIS A 8317-2 *Earth-moving machinery — Determination of emission sound pressure level at operator's position — Dynamic test conditions*

JIS A 8340-1 *Earth-moving machinery — Safety — Part 1 : General requirements*

NOTE : Corresponding International Standard : **ISO 20474-1** : 2008 *Earth-moving machinery — Safety — Part 1 : General requirements* (MOD)

JIS A 8420-1 *Earth-moving machinery — Tractor-dozers — Part 1 : Terminology and commercial specifications*

NOTE : Corresponding International Standard : **ISO 6747** : 1998 *Earth-moving machinery — Tractor-dozers — Terminology and commercial specifications* (IDT)

JIS A 8910 *Earth-moving machinery — Roll-over protective structures — Labora-*