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JIS A 8340-1 : 2022

(JCMA/JSA)

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

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## Foreword

This Japanese Industrial Standard has been 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 for revision of Japanese Industrial Standard submitted by Japan Construction Machinery and Construction Association (JCMA)/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 A 8340-1** : 2011), which has been technically revised.

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**JIS A 8340** series consists of the following 7 parts under the general title *Earth-moving machinery — Safety —* :

*Part 1 : General requirements*

*Part 2 : Requirements for dozers*

*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*

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# Earth-moving machinery — Safety —

## Part 1 : General requirements

### Introduction

This Japanese Industrial Standard has been prepared based on **ISO 20474-1** : 2017, Edition 2, with some modifications of the technical contents to reflect the unique condition of Japan.

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

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 type-A or B standards.

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

In this Standard, Annex JA, and those subclauses and tables whose numbers are followed by capitalized Latin letters (A, B, C...) contain requirements not included in the corresponding International Standard. The dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JB.

### 1 Scope

This Standard specifies the general safety requirements for earth-moving machinery as defined in **ISO 6165**, each of these requirements being common to two or more earth-moving machine families. It is also applicable to machine attachments, and to derivative machinery designed primarily for equipment used to excavate, load, transport, drill, spread, compact or trench earth, rock, and other materials.

It is intended to be used in conjunction with the other parts of **JIS A 8340** series or **ISO 20474** series, which give the provisions that are specific to particular machine families. Those specific requirements take precedence over the requirements of this Standard for the machines concerned. For multipurpose machinery, all of those parts of the standard series whose requirements cover the functions and applications of such machines are applicable.

Example For a compact loader also used as a trencher, the relevant requirements of this Standard, **JIS A 8340-3** and **ISO 20474-10** are applicable.

NOTE 1 Earth-moving machines are required to comply with the Vehicle-Type Construction Machine Structural Standard of the Industrial Safety and Health Act, and earth-moving machines intended to travel on public roads are required to comply with the laws and regulations relevant to road traffic established by the national and local governments.