INTERNATIONAL STANDARD

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Earth-moving machinery — Safety — Part 4: Requirements for backhoe loaders

Engins de terrassement — Sécurité —

Partie 4: Exigences applicables aux chargeuses-pelleteuses

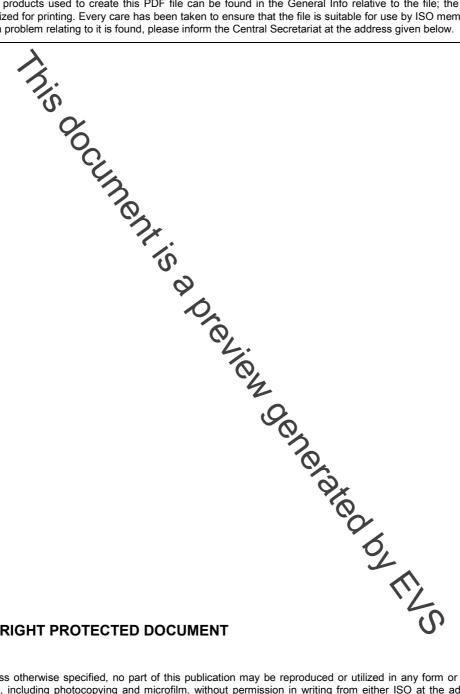


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	A (informative) Test method for backhoe loader lift capacity at the backhoe portion B (informative) Illustrations	

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in Maison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical confirmtees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires applying by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 20474-4 was prepared by Technical Committee ISO/TC 127, Earth-moving machinery, Subcommittee SC 2, Safety, ergonomics and general requirements

Sera. Series of the series of ISO 20474 consists of the following parts, under the general title *Earth-moving machinery* — *Safety*:

- Part 1: General requirements
- Part 2: Requirements for tractor-dozers
- Part 3: Requirements for loaders
- Part 4: Requirements for backhoe loaders
- Part 5: Requirements for hydraulic excavators
- Part 6: Requirements for dumpers
- Part 7: Requirements for scrapers
- Part 8: Requirements for graders
- Part 9: Requirements for pipelayers
- Part 10: Requirements for trenchers
- Part 11: Requirements for earth and landfill compactors
- Part 12: Requirements for cable excavators
- Part 13: Requirements for rollers
- Part 14: Information on national and regional provisions [Technical Specification]

Introduction

This document is a type-C standard as stated in ISO 12100.

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

arned and the extent to wind in the Scope of this document.

At are applicable for Australia, the EU, Japan or continuous periodic solvenmental laws, directives or regulations, jiven in ISO/TS 2012/4-14.

Other countries or regions may also have regional requirements. When requirements of this type-C standard are different from those stated in type-A or B standards, the requirements of the type-C standard take precedence over the requirements of the other standards for machines that have been designed and built according to the requirements of this type-C standard.

Provisions that are applicable for Australia, the EU, Japan or the USA, and which are mandatory for compliance with specific governmental laws, directives or regulations in force in the particular country or region, are given in ISO/TS 20474-14.

NOTE

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Earth-moving machinery — Safety —

Part 4:

Requirements for backhoe loaders

1 Scope

This part of ISO 20474 gives the safety requirements specific to wheeled and crawler backhoe loaders as defined in ISO 6165. It is intended to be used in conjunction with ISO 20474-1, which specifies general safety requirements common to earth-hoving machine families, and with ISO/TS 20474-14, which gives information on provisions that are mandatory in particular countries or regions. The specific requirements given in this part of ISO 20474 take precedence over the general requirements of ISO 20474-1.

This part of ISO 20474 deals with all significant hazards, hazardous situations and events relevant to the earth-moving machinery within its Scope when used as intended or under conditions of misuse reasonably foreseeable by the manufacturer (see also 15O/TS 20474-14). It specifies the appropriate technical measures for eliminating or reducing risks arising from significant hazards, hazardous situations or events during commissioning, operation and maintenance. It is not applicable to machines manufactured before the date of its publication.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated eferences, the latest edition of the referenced document (including any amendments) applies.

ISO 2330, Fork lift trucks — Fork arms — Technical characteristics and testing

ISO 6016, Earth-moving machinery — Methods of measuring the masses of whole machines, their equipment and components

ISO 6165:2006, Earth-moving machinery — Basic types — Identification and terms and definitions

ISO 7096:2000, Earth-moving machinery — Laboratory evaluation of operator sea vibration

ISO 7546, Earth-moving machinery — Loader and front loading excavator buckets — Nolumetric ratings

ISO 14397-1, Earth-moving machinery — Loaders and backhoe loaders — Part 1: Calculation of rated operating capacity and test method for verifying calculated tipping load

ISO 14397-2, Earth-moving machinery — Loaders and backhoe loaders — Part 2: Test method for measuring breakout forces and lift capacity to maximum lift height

ISO 20474-1:2008, Earth-moving machinery — Safety — Part 1: General requirements

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