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Earth-moving machinery — Loaders — Terminology and commercial specifications



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Preface

This Standard was prepared by the Standards Australia Committee ME-063, Earthmoving Equipment.

The objective of this document is to establish the terminology and content of commercial literature specifications for self-propelled crawler and wheeled loaders as defined in ISO 6165, with their equipment and attachments, used in earth-moving operations.

This document is identical with, and has been reproduced from, ISO 7131:2009, *Earth-moving machinery — Loaders — Terminology and commercial specifications*, and its Amendment 1 (2017), which has been added at the end of the source text.

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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 liaison 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 committees 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 approval 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 7131 was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*, Subcommittee SC 4, *Terminology, commercial nomenclature, classification and rating*.

This third edition cancels and replaces the second edition (ISO 7131:1997), which has been technically revised.

Australian Standard®

Earth-moving machinery — Loaders — Terminology and commercial specifications

1 Scope

This International Standard establishes the terminology and content of commercial literature specifications for self-propelled crawler and wheeled loaders as defined in ISO 6165, with their equipment and attachments, used in earth-moving operations.

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 references, the latest edition of the referenced document (including any amendments) applies.

ISO 3450, *Earth-moving machinery - Braking systems of rubber-tired machines - Systems and performance requirements and test procedures*

ISO 6014, *Earth-moving machinery - Determination of ground speed*

ISO 6016:2008, *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 6746:2003 (all parts), *Earth-moving machinery - Definitions of dimensions and codes*

ISO 7457, *Earth-moving machinery - Measurement of turning dimensions of wheeled machines*

ISO 9249, *Earth-moving machinery - Engine test code - Net power*

ISO 10265, *Earth-moving machinery - Crawler machines - Performance requirements and test procedures for braking systems*

ISO 14396, *Reciprocating internal combustion engines - Determination and method for the measurement of engine power - Additional requirements for exhaust emission tests in accordance with ISO 8178*

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*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 6165, ISO 6746 and the following apply.

3.1 General

3.1.1 loader

self-propelled crawler or wheeled machine which has front-mounted equipment primarily designed for loading operation (bucket use) and which loads or excavates through forward motion of the machine

Note 1 to entry: A loader work cycle normally comprises filling, elevating, transporting and discharging of material.