

AS 10567:2024



Earth-moving machinery — Hydraulic excavators — Lift capacity (ISO 10567:2007, MOD)



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- Australasian Institute of Mining & Metallurgy
- Australian Industry Group
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- Construction and Mining Equipment Industry Group
- Department of Regional NSW
- Engineers Australia
- Engineers Australia/Mining Electrical and Mining Mechanical Engineering Society
- Forestry Corporation of NSW
- Institute of Instrumentation, Control & Automation Aust Inc
- Minerals Council of Australia
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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 provide a uniform method for calculating the lift capacity of hydraulic excavators and specifies a procedure for verifying the calculations. It is applicable to the limits of both hydraulic lift capacity and machine-tipping, and establishes the rated lift capacity for hydraulic excavators as defined in AS/ISO 7135.

This document is an adoption with national modifications, and has been reproduced from, ISO 10567, *Earth-moving machinery — Hydraulic excavators — Lift capacity*. The modifications are additional requirements and are set out in [Appendix ZZ](#), which has been added at the end of the source text.

[Appendix ZZ](#) lists the modifications to ISO 10567, for the application of this document in Australia.

As this document has been reproduced from an International document, a full point substitutes for a comma when referring to a decimal marker.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

The particular requirements of this document make reference to ISO 7135, which has been adopted as AS ISO 7135 60601, *Earth-moving machinery — Hydraulic excavators — Terminology and commercial specifications*, and ISO 9248, which has been adopted as AS ISO 9248, *Earth-moving machinery — Units for dimensions, performance and capacities, and their measurement accuracies*. Reference to these general requirements is essential for the application of this document.

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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 10567 was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*, Subcommittee SC 1, *Test methods relating to machine performance*.

This second edition cancels and replaces the first edition (ISO 10567:1992), which has been technically revised.

Australian Standard®

Earth-moving machinery — Hydraulic excavators — Lift capacity (ISO 10567:2007, MOD)

Section 1 Scope

This International Standard provides a uniform method for calculating the lift capacity of hydraulic excavators and specifies a procedure for verifying the calculations. It is applicable to the limits of both hydraulic lift capacity and machine-tipping, and establishes the rated lift capacity for hydraulic excavators as defined in ISO 7135.

Section 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 7135, *Earth-moving machinery — Hydraulic excavators — Terminology and commercial specifications*

ISO 9248, *Earth-moving machinery — Units for dimensions, performance and capacities, and their measurement accuracies*

Section 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

load

external mass, including the mass of the attached equipment and attachment if applicable, applied at the lift point

3.2

lift point

LP

(condition 1) location on the bucket or the attachment bracket, as specified by the manufacturer, to which a load may be attached

Note 1 to entry: See [Figure 1\(a\)](#).

Note 2 to entry: For attaching the bucket or attachment bracket load, the bucket cylinder need not be fully extended.

3.3

lift point

LP

(condition 2) centreline of the bucket pivot mounting pin on the arm

Note 1 to entry: See [Figure 1\(b\)](#).