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STANDARDS
Australia



Earth-moving machinery — Hydraulic excavators — Laboratory tests and performance requirements for operator protective guards



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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 a consistent, repeatable test procedure and performance requirements for evaluating operator-protective guarding that undergo loading. Such guards are usually intended to provide excavator operators with reasonable protection against objects (e.g. rocks and debris) which would otherwise penetrate the operators station from the front or top.

This document is applicable to hydraulic excavators, as defined in [ISO 7135](#) when equipped with an operator's station guard(s).

This document is identical with, and has been reproduced from, ISO 10262:1998, *Earth-moving machinery — Hydraulic excavators — Laboratory tests and performance requirements for operator protective guards*, and its Corrigendum 1 (2009), which has been added at the end of the source text.

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- (a) In the source text “this International Standard” should read “this document”.
- (b) A full point substitutes for a comma when referring to a decimal marker.

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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.

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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.

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.

International Standard ISO 10262 was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*, Subcommittee SC 2, *Safety requirements and human factors*.

[Annex A](#) forms an integral part of this International Standard.

Australian Standard[®]

Earth-moving machinery — Hydraulic excavators — Laboratory tests and performance requirements for operator protective guards

1 Scope

This International Standard establishes a consistent, repeatable test procedure and performance requirements for evaluating operator-protective guarding that undergo loading. Such guards are usually intended to provide excavator operators with reasonable protection against objects (e.g. rocks and debris) which would otherwise penetrate the operators station from the front or top.

It is applicable to hydraulic excavators, as defined in ISO 7135 when equipped with an operator's station guard(s).

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 148:1983, *Steel — Charpy impact test (V-notch)*.

ISO 898-1:—¹⁾, *Mechanical properties of fasteners made of carbon steel and alloy steel — Part 1: Bolts, screws and studs*.

ISO 898-2:1992, *Mechanical properties of fasteners — Part 2: Nuts with specified proof load values — Coarse thread*.

ISO 3164:1995, *Earth-moving machinery — Laboratory evaluations of protective structures — Specifications for deflection-limiting volume*.

ISO 5353:1995, *Earth-moving machinery, and tractors and machinery for agriculture and forestry — Seat index point*.

ISO 7135:—²⁾, *Earth-moving machinery — Hydraulic excavators — Terminology and commercial specifications*.

3 Definitions

For the purposes of this International Standard, the following definitions and abbreviations apply.

3.1

operator guards

system of a *top guard* (3.3) and a *front guard* (3.2) for the operator station of excavators

3.2

front guard

device intended to provide object protection to the front of the operator station of excavators

3.3

top guard

device intended to provide falling object protection to the top of the operator station of excavators

1) To be published. (Revision of ISO 898-1:1988)

2) To be published. (Revision of ISO 7135:1993)