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STANDARDS
Australia



Earth-moving machinery — Operator enclosure environment

Part 5: Windscreen defrosting system test method



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Better Regulation Division — Safework NSW
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Department of Regional NSW
Engineers 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 specify a test method to determine the performance of windscreen defrosting systems of earth-moving machinery, fitted with an operator enclosure and a device for defrosting the windscreen. It includes tests that can be conducted with test equipment in commercially available laboratory facilities, as well as in an appropriate outdoor environment.

This document is identical with, and has been reproduced from, ISO 10263-5:2009, *Earth-moving machinery — Operator enclosure environment — Part 5: Windscreen defrosting system test method*.

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- (b) A full point substitutes for a comma when referring to a decimal marker.

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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.

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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 10263-5 was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*, Subcommittee SC 2, *Safety, ergonomics and general requirements*.

This second edition cancels and replaces the first edition (ISO 10263-5:1994), which has been technically revised.

ISO 10263 consists of the following parts, under the general title *Earth-moving machinery — Operator enclosure environment*:

- *Part 1: Terms and definitions*
- *Part 2: Air filter element test method*
- *Part 3: Pressurization test method*
- *Part 4: Heating, ventilating and air conditioning (HVAC) test method and performance*
- *Part 5: Windscreen defrosting system test method*
- *Part 6: Determination of effect of solar heating*

Australian Standard®

Earth-moving machinery — Operator enclosure environment

Part 5: Windscreen defrosting system test method

1 Scope

This part of ISO 10263 specifies a test method to determine the performance of windscreen defrosting systems of earth-moving machinery, fitted with an operator enclosure and a device for defrosting the windscreen. It includes tests that can be conducted with test equipment in commercially available laboratory facilities, as well as in an appropriate outdoor environment.

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

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

ISO 10263-1, *Earth-moving machinery — Operator enclosure environment — Part 1: Terms and definitions*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 10263-1 and the following apply.

3.1

windscreen defrosting system

means intended to defrost the windscreen

3.2

daylight opening

DLO

maximum unobstructed opening through any glazed aperture, with trim mouldings and mounting seals adjoining the glazed surface

3.3

defrosted area

area of the windscreen consisting of dry cleared surface and melted or partially melted (wet) test coating, and excluding that area of the windscreen covered with dry test coating of ice

Note 1 to entry: For further explanation of defrosted areas, see [Figure 1](#).

3.4

heat transfer medium

HTM

means through which defroster system heating is achieved

3.5

defrosting

removal and maintenance of an ice/frost-free window area for visibility