AS ISO 10532:2021
ISO 10532:1995
ISO 10532:1995/Amd 1:2004

Australian STANDARD®

STANDARDS Australia

Earth-moving machinery — Machine-mounted retrieval device — Performance requirements



AS ISO 10532:2021

This Australian Standard® was prepared by ME-063, Earthmoving Equipment. It was approved on behalf of the Council of Standards Australia on 11 December 2020.

This Standard was published on 22 January 2021.

The following are represented on Committee ME-063:

Australian Industry Group
Better Regulation Division — SafeWork NSW
Construction and Mining Equipment Industry Group
Department of Natural Resources, Mines and Energy, Qld
Department of Regional NSW
Engineers Australia/Mining Electrical and Mining Mechanical Engineering Society
Institute of Instrumentation, Control & Automation Australia
Minerals Council of Australia
University of Queensland

This Standard was issued in draft form for comment as DR AS ISO 10532:2020.

Keeping Standards up-to-date

Ensure you have the latest versions of our publications and keep up-to-date about Amendments, Rulings, Withdrawals, and new projects by visiting:
www.standards.org.au

ISBN 978 1 76113 146 2

AS ISO 10532:2021
ISO 10532:1995
ISO 10532:1995/Amd 1:2004

Earth-moving machinery — Machine-mounted retrieval device — Performance requirements

First published as AS ISO 10532:2021.

COPYRIGHT

© ISO 2021 — All rights reserved
© Standards Australia Limited 2021

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Cth).

Preface

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

The objective of this document is to define the performance requirements of a retrieval device mounted on an earth-moving machine listed in ISO 6165. Requirements for verification testing, if needed, are included.

This document is applicable to machine-mounted retrieval devices of capacities not exceeding 10^6 N.

This document is identical with, and has been reproduced from, ISO 10532:1995, *Earth-moving machinery — Machine-mounted retrieval device — Performance requirements*, and its Amendment No. 1 (2004), which has been added at the end of the source text.

As this document has been reproduced from an International Standard, the following applies:

(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.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

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.

© Standards Australia Limited 2021

Contents

Preface ..... **ii**
Foreword ..... **iv**
1 Scope **1**
2 Normative references **1**
3 Definitions **1**
4 Requirements **2**
5 Verification **2**
Annex A (informative) **Bibliography** **3**

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 10532 was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery,* Subcommittee SC 1, *Test methods relating to machine performance.*

Annex A of this International Standard is for information only.

© Standards Australia Limited 2021

Australian Standard®

Earth-moving machinery — Machine-mounted retrieval device — Performance requirements

1 Scope

This International Standard defines the performance requirements of a retrieval device mounted on an earth-moving machine listed in ISO 6165. Requirements for verification testing, if needed, are included.

Studies have shown that the tow rope, used for retrieving a large disabled or mired earth-moving machine is seldom larger than 40 mm diameter wire rope. This is typically the largest size that can be handled by the person connecting the tow rope to the machine.

Therefore, this International Standard is applicable to machine-mounted retrieval devices of capacities not exceeding 10^6 N. This value corresponds to the minimum breaking force of a 40 mm diameter Group 3 wire rope with steel core as listed in ISO 2408.

NOTE 1 In accordance with ISO 6750, information on the location and instructions for proper use of retrieval devices is provided in the operator manual.

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 6016:1982, *Earth-moving machinery — Methods of measuring the masses of whole machines, their equipment and components.*

ISO 6165:1987, *Earth-moving machinery — Basic types — Vocabulary.*

ISO 9248:1992, *Earth-moving machinery — Units for dimensions, performance and capacities, and their measurement accuracies.*

3 Definitions

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

3.1
machine-mounted retrieval device
connector attached to a machine that provides a means to attach a tow rope, a chain, or a tow bar to a disabled or mired machine

3.2
capacity
(of a retrieval device): Value, expressed in newtons, of the force applied to a machine-mounted retrieval device that results in a stress level equal to the yield strength of the material that is used to manufacture the retrieval device

3.3
machine mass for calculation
(1) **For tractor-scrapers and dumpers:** Combined mass of the machine's operating mass, as defined in ISO 6016, and the rated paymass as specified by the manufacturer.

(2) **For all other machines:** Operating mass of the machine, as defined in ISO 6016.

Note 1 to entry: This mass is the "loaded mass". (See ISO 7132 and ISO 7133.)

© Standards Australia Limited 2021