

AS ISO 22448:2021
ISO 22448:2010



STANDARDS
Australia



Earth-moving machinery — Anti-theft systems — Classification and performance



AS ISO 22448:2021

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 22448:2020.

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 139 4

Earth-moving machinery — Anti-theft systems — Classification and performance

First published as AS ISO 22448:2021.

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 specify, and classify at seven levels, systems for the protection against theft of earth-moving machinery as defined in ISO 6165, and gives performance criteria for each level.

This document also provides recommendations for managing critical documentation and theft-sensitive spare parts in protection against theft.

This document is not applicable to tracking systems that monitor the location of a machine.

This document is identical with, and has been reproduced from, ISO 22448:2010, *Earth-moving machinery — Anti-theft systems — Classification and performance*.

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.

Contents

Preface	ii
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Classification	2
4.1 Level I — Universal key (with no combination)	2
4.2 Level II — Mechanical restraint	2
4.3 Level III — Unique key	2
4.4 Level IV — Add-on authentication system	2
4.5 Level V — Manufacturer's authentication system	2
4.6 Level VI — Electronic immobilizer system	3
4.7 Level VII — Multiple-ECM/ECU immobilizer system	3
5 Performance criteria	3
5.1 Level I — Universal key (with no combination)	3
5.2 Level II — Mechanical restraints	3
5.3 Level III — Unique key	4
5.4 Level IV — Add-on authentication system	4
5.5 Level V — Manufacturer's authentication system	4
5.6 Level VI — Electronic immobilizer system	4
5.7 Level VII — Multiple-ECM/ECU immobilizer system	5
6 Pictogram	6
7 Documentation	6
8 Theft-sensitive spare parts	6