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



AS ISO 22448:2021

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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, 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.

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Foreword

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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 22448 was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*, Subcommittee SC 3, *Machine characteristics, electrical and electronic systems, operation and maintenance*.

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Australian Standard®

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

1 Scope

This International Standard specifies, and classifies 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.

It also gives recommendations for managing critical documentation and theft-sensitive spare parts in protection against theft.

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

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 6165, *Earth moving machinery — Basic types — Identification and terms and definitions*

ISO 10264, *Earth-moving machinery — Key-locked starting systems*

3 Terms and definitions

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

3.1
immobilizer
device that is intended to prevent normal operation of the machine

3.2
authentication device
device which allows identification of authorized user(s)

EXAMPLE Radio, satellite, cell phone, keypad, ultrasonic, magnetic wave, electronic key.

3.3
electronic control unit
electronic control module
ECU
ECM
electronic device (electronic programmable controller) used in a control system on earth-moving machinery

3.4
electronic key
wireless device used to aid authentication of the operator

3.5
token
unique and distinguishing code exchanged between ECM/ECUs

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