

AS 3450:2021



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Australia



Earth-moving machinery — Wheeled or high-speed rubber-tracked machines — Performance requirements and test procedures for brake systems (ISO 3450:2011, MOD)



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- Australian Industry Group
- Better Regulation Division (Fair Trading, Safework NSW, TestSafe)
- Construction and Mining Equipment Industry Group
- Department of Regional NSW
- Department of Resources (QLD)
- Engineers Australia
- Engineers Australia / Mining Electrical and Mining Mechanical Engineering Society
- Institute of Instrumentation, Control & Automation Aust
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Preface

This Standard was prepared by the Standards Australia Committee ME-063, Earthmoving Equipment, to supersede AS 2958.1:1995, *Earth-moving machinery — Safety, Part 1: Wheeled machines — Brakes*.

The objective of this Standard is to specify the minimum performance requirements and test procedures for the service, secondary and parking brake systems of wheeled and high-speed rubber-tracked earth-moving machines, for the uniform assessment of those brake systems.

It is applicable to the following earth-moving machinery, operating on work sites or in mining, or travelling on public roads:

- (a) Self-propelled, rubber-tyred earth-moving machines, as defined in ISO 6165.
- (b) Self-propelled rollers and landfill compactors, as defined in ISO 6165 and ISO 8811.
- (c) Self-propelled scrapers, as defined in ISO 7133.
- (d) Remote-control machines, as defined in ISO 6165, wheeled or rubber-tracked.
- (e) Derivative earth-moving machines with rubber tyres.
- (f) Earth-moving machines with rubber tracks and a maximum machine speed ≥ 20 km/h

It is not applicable to pedestrian-controlled earth-moving machinery (see ISO 17063) or crawler earth-moving machines with steel or rubber tracks that travel at < 20 km/h (see ISO 10265). While purpose-built underground mining machines are not within the scope of this International Standard, its provisions can generally be applied to those machines with some braking performance modifications and additions (see Annex A).

This Standard is an adoption with national modifications, and has been reproduced from, ISO 3450:2011, *Earth-moving machinery — Wheeled or high-speed rubber-tracked machines — Performance requirements and test procedures for brake systems*. The modifications are additional requirements and are set out in [Appendices ZZ](#) and [ZA](#), which have been added at the end of the source text.

[Appendix ZZ](#) lists the variations to ISO 3450:2011 for the application of this Standard in Australia.

[Appendix ZA](#) specifies a procedure for end-users to conduct in-service brake testing and for providers of in-service brake testing equipment.

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- (i) In the source text “this International Standard” should read “this Australian Standard”.
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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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