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Earth-moving machinery — Braking systems of pedestrian-controlled machines — Performance requirements and test procedures



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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 minimum performance criteria and tests for braking systems, enabling a uniform assessment of the braking capability of pedestrian-controlled, self-propelled earth-moving machinery (as specified in ISO 6165) with a machine mass greater than 115 kg and a travel speed less than 6 km/h This document is applicable to both service and parking brakes on such machines.

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Foreword

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Australian Standard®

Earth-moving machinery — Braking systems of pedestrian-controlled machines — Performance requirements and test procedures

1 Scope

This International Standard specifies minimum performance criteria and tests for braking systems, enabling uniform assessment of the braking capability of pedestrian-controlled, self-propelled earth-moving machinery (as specified in ISO 6165) with a machine mass greater than 115 kg and a travel speed of less than 6 km/h. It is applicable to both service and parking brakes.

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 6014, *Earth-moving machinery — Determination of ground speed*

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

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

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 6165 and the following apply.

3.1
pedestrian controlled machine
self-propelled crawler or wheeled machine designed to be controlled by a person that does not ride on the machine

3.2
braking system
components which combine together to stop and/or hold machine, consisting of the *brake* (3.3.1), *brake actuation system* (3.3.2) and *brake control* (3.3.3)

3.2.1
service brake
primary system used for stopping and holding machine

3.2.2
parking brake
system used to hold stopped machine in a stationary position

3.3 braking system components

3.3.1
brake
component(s) which directly applies a force to oppose movement of machine

Note 1 to entry: Brakes may, for example, be of friction, electrical, or hydrostatic or other fluid types.

3.3.2
brake actuation system
all components between *brake control* (3.3.3) and *brake(s)* (3.3.1) which connect the brake control and brake(s) functionally

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