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

*Engins de terrassement — Dispositifs de freinage des engins à  
conducteur accompagnant — Exigences de performance et modes  
opératoires d'essai*



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## Foreword

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# 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