AS ISO 6014:2021
ISO 6014:1986

Australian STANDARD®

STANDARDS Australia

Earth-moving machinery — Determination of ground speed



AS ISO 6014:2021

This Australian Standard ® was prepared by ME-063, Earthmoving Equipment. It was approved on behalf of the Council of Standards Australia on 22 October 2021.

This Standard was published on 5 November 2021.

The following are represented on Committee ME-063:

Australasian Institute of Mining and Metallurgy
Australian Industry Group
Better Regulation Division — SafeWork NSW
Construction and Mining Equipment Industry Group
Department of Regional NSW
Engineers Australia
Institute of Instrumentation, Control and Automation Australia
Minerals Council of Australia
Mining Electrical and Mining Mechanical Engineering Society
Resources Safety & Health Queensland
University of Queensland

This Standard was issued in draft form for comment as DR AS ISO 6014:2021.

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ISBN 978 1 76113 597 2

AS ISO 6014:2021
ISO 6014:1986

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First published as AS ISO 6014:2021.

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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 a method of determining the speed of both wheeled and track-laying earth-moving machinery. The test method may be used for many purposes; for each individual purpose the condition of the machine, for example laden or unladen, is to be stated in the test report.

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Contents

Preface ..... **ii**
Foreword ..... **iv**
1 Scope and field of application **1**
2 Definitions **1**
3 Apparatus **1**
4 Test conditions **2**
5 Procedure **2**
6 Test report **3**

Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 6014 was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*.

This second edition cancels and replaces the first edition (ISO 6014-1979), of which it constitutes a minor revision.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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Earth-moving machinery — Determination of ground speed

1 Scope and field of application

This International Standard specifies a method of determining the speed of earth-moving machinery. It applies to both wheeled and track-laying earth-moving machinery.

The test method specified may be used for many purposes; for each individual purpose the condition of the machine, for example laden or unladen, is to be stated in the test report.

2 Definitions

For the purposes of this International Standard, the following definitions apply.

2.1
test track
Area upon which the test is conducted.

2.2
test track length
Measured length of the track over which the speed is determined.

2.3
time recorder
Apparatus arranged to measure the time interval.

2.4
time interval
Time taken for the machine to travel the test track length.

2.5
machine speed
Average speed of the machine as it is driven over the test track length.

2.6
test speed
Mean value of the average speeds recorded in the individual tests.

2.7
mass
Mass of the machine in the condition in which it is tested, including the mass of the operator and fuel.

3 Apparatus

Any equipment may be used to measure the speed of the machine provided that the accuracies specified in clause 5 are achieved. For example, the following equipment may be used (see the figure).

3.1 Light source, used to activate a photo-sensitive transistor. It may be an electric lamp fed by a battery, generator or mains supply.

3.2 Control box, linked to the photo-sensitive transistor and the electronic digital display timer, incorporating a switch to permit time measurements in either direction.

3.3 Electronic digital display timer (otherwise referred to as the variable time base counter), used to measure the time interval during which the machine under test traverses the test lengths of the track.

NOTE — Alternatively, the time may be measured with stop-watch equipment.

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