

AS 2951.7—1988/ISO 7134—1985

Australian Standard®

**EARTH-MOVING MACHINERY—
NOMENCLATURE**

**PART 7—GRADERS—
TERMINOLOGY AND
COMMERCIAL
SPECIFICATIONS**

(ISO Title: Earth-moving machinery—Graders—
Terminology and commercial specifications)

This Australian Standard was prepared by Committee ME/63, Earthmoving Equipment. It was approved on behalf of the Council of the Standards Association of Australia on 3 March 1988 and published on 17 June 1988.

The following interests are represented on Committee ME/63:

Australian Mining Industry Council
Bureau of Steel Manufacturers of Australia
Construction Equipment Importers and Manufacturers of Australia
Department of Administrative Services
Department of Conservation, Forests and Lands, Vic.
Department of Defence
Department of Forestry, Qld.
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Earth-movers and Road Contractors Association of Australia
Forestry Commission of New South Wales
Local Government Engineers Association of New South Wales
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This Standard was issued in draft form for comment as DR 85172.

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First published as AS 2951.7/ISO 7134—1988.

PUBLISHED BY STANDARDS AUSTRALIA
(STANDARDS ASSOCIATION OF AUSTRALIA)
1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7262 4983 1

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 FOREWORD

1. This Australian Standard corresponds with ISO 7134—1985, *Earth-moving machinery—Graders—Terminology and commercial specifications*.
2. Introduction to and complete listing of the SAA series of earth-moving machinery Standards (AS 2951 to AS 2958) is available on request.
3. Error.
Clause 3. Title of ISO 3450 incorrect. Should read: *'Earth-moving machinery—Wheeled machines—Performance requirements and test procedures for braking systems'*.
4. For the purpose of this Australian Standard the words 'International Standard' should be replaced by 'Australian Standard'.
5. ISO Standards referred to in this Standard correspond with the following Australian Standards:

ISO Standard	Australian Standard
ISO 1585	AS 2789.7
ISO 3450	AS 2958.1
ISO 6014	AS 2955.3
ISO 6165	AS 2951.1
ISO 6746-1	AS 2951.2.1
ISO 6746-2	AS 2951.2.2
ISO 7457	AS 2955.8

6. ISO Standard 5010 has no corresponding Australian Standard published at this time.

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Earth-moving machinery—Nomenclature

Part 7—Graders—Terminology and commercial specifications

1 Scope

This International Standard establishes terminology and the content of commercial literature specifications for self-propelled graders and their equipment.

2 Field of application

This International Standard applies to graders as defined in clause 4.

3 References

ISO 1585, *Road vehicles — Engine test code — Net power.*

ISO 3450, *Off-highway earth-moving machinery — Minimum performance criteria for brake systems.*

ISO 5010, *Earth-moving machinery — Rubber-tyred machines — Steering systems.*

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

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

ISO 6746, *Earth-moving machinery — Definitions of dimensions and symbols—*

Part 1 : Base machine.

Part 2 : Equipment.

ISO 7457, *Earth-moving machinery — Measurement of turning dimensions of wheeled machines.*

4 General definitions

4.1 grader: A self-propelled wheeled machine having an adjustable blade, positioned between front and rear axles, which cuts, moves and spreads materials usually to grade requirements. (See ISO 6165.)

4.2 base machine: A grader without equipment as described by the manufacturer specifications. The machine should be provided with the necessary mountings to secure attachments as shown in clause 6.

4.3 equipment: A set of components mounted onto the base machine to fulfil the primary design function.

4.4 attachment: An optional assembly of components that can be mounted onto the base machine for a specific use.

4.5 component: A part or an assembly of parts of a base machine, equipment or an attachment.

5 Base machine

5.1 Types of graders

5.1.1 Undercarriage — Number of wheels

5.1.1.1 Four wheel (figure 1)

5.1.1.2 Six wheel (figure 2)

5.1.2 Number of engines

5.1.2.1 One engine (figure 3)

5.1.2.2 Two engine (figure 4)

5.1.3 Engine location

5.1.3.1 Front engine (figure 5)

5.1.3.2 Rear engine (figure 6)

5.1.4 Steering system

5.1.4.1 Front wheel steer (figure 7)

5.1.4.2 Front wheel and rear wheel steer (figure 8)

5.1.4.3 Front wheel and rear bogie steer (figure 9)

5.1.4.4 Front wheel and articulated frame steer (figure 10)

5.1.4.5 Double articulated frame steer (figure 11)

5.1.5 Drive system

5.1.5.1 Two wheel drive (figure 12)

5.1.5.2 Four wheel drive (figure 13)

5.1.5.3 Six wheel drive (figure 14)