

AS 2951.6—1988/ISO 7133—1985

Australian Standard®

**EARTH-MOVING MACHINERY—
NOMENCLATURE**

**Part 6—TRACTOR-SCRAPERS—
TERMINOLOGY AND
COMMERCIAL
SPECIFICATIONS**

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

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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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Local Government Engineers Association of New South Wales
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 FOREWORD

1. This Australian Standard corresponds with ISO 7133—1985, *Earth-moving machinery—Tractor-scrappers—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 6484	AS 2954.3
ISO 6485	AS 2954.4
ISO 6746-1	AS 2951.2.1
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 6—Tractor-scrapers—Terminology and commercial specifications

1 Scope

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

2 Field of application

This International Standard applies to tractor-scrapers as defined in ISO 6165.

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 6484, *Earth-moving machinery — Elevating scrapers — Volumetric rating.*

ISO 6485, *Earth-moving machinery — Tractor-scraper volumetric rating.*

ISO 6746/1, *Earth-moving machinery — Definitions of dimensions and symbols — Part 1: Base machine.*

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

4 General definitions

4.1 tractor-scraper : A self-propelled wheeled machine, having an open bowl with a cutting edge positioned between the axles, which cuts, loads, transports, discharges and spreads material through a forward motion of the machine.

Loading through the forward motion of the machine can be assisted by a powered mechanism (elevator) fixed to the scraper bowl (see ISO 6165).

4.2 base machine : A tractor-scraper without equipment, as described by the manufacturer specifications. The machine should be provided with the necessary mountings to secure the attachment 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: Part or an assembly of parts of a base machine, equipment or an attachment.

5 Base machine

5.1 Types of tractor-scrapers

5.1.1 Method of loading

5.1.1.1 Open bowl loading (figure 1)

5.1.1.2 Elevated loading (figure 2)

5.1.2 Steering system

5.1.2.1 Front wheel steer (figure 3)

5.1.2.2 Articulated steer (figure 4)

5.1.3 Number of axles

5.1.3.1 Two axles (figure 5)

5.1.3.2 Three axles (figure 6)

5.1.4 Number of engines

5.1.4.1 One engine (figure 7)

5.1.4.2 Two engines (figure 8)

5.1.5 Drive system

5.1.5.1 Front wheel drive (figure 9)

5.1.5.2 All wheel drive (figure 10)

5.1.5.3 Centre axle drive (figure 11)