

Terminology (including definitions of dimensions and symbols) for earth-moving machinery —

Part 4: Glossary for dumpers

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Road Engineering Standards Policy Committee (RDB/-) to Technical Committee RDB/21, upon which the following bodies were represented:

- AFRC Institute of Engineering Research
- Associated Offices Technical Committee
- British Coal Opencast
- Construction Industry Training Board
- Construction Plant-Hire Association
- Federation of Civil Engineering Contractors
- Federation of Manufacturers of Construction Equipment and Cranes
- Health and Safety Executive
- Institution of Civil Engineers
- Institution of Highways and Transportation
- Ministry of Defence

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Committee reference RDB/21
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National foreword

This Part of BS 6914 has been prepared under the direction of the Road Engineering Standards Policy Committee, and is identical with ISO 7132:1990 *“Earth-moving machinery — Dumpers — Terminology and commercial specifications”*, published by the International Organization for Standardization (ISO). It supersedes BS 6914-4:1988, which was identical with ISO 7132:1984, and which is withdrawn.

In this edition of BS 6914-4 references to ISO 1585 have been replaced by references to ISO 9249.

ISO 7132 was produced as a result of international discussion in which the UK took an active part.

Annex A forms an integral part of this British Standard.

Cross-references

International Standard	Corresponding British Standard
ISO 3450:1985	BS 6824:1987 <i>Specification for performance and test of braking systems for wheeled earth-moving machinery</i> (Identical)
ISO 5010:1984	BS 6573:1985 <i>Specification for steering capability of rubber tyred earth-moving machines</i> (Identical)
ISO 6014:1986	BS 5982:1987 <i>Method for determination of ground speed of earth-moving machinery</i> (Identical)
ISO 6165:1987	BS 6914 <i>Terminology (including definitions of dimensions and symbols) for earth-moving machinery</i> Part 1:1988 <i>Glossary of terms for basic types of earth-moving machinery</i> (Identical)
ISO 6483:1980	BS 6113:1981 <i>Method for volumetric rating of dumper bodies used for earth-moving</i> (Identical)
ISO 6746-1:1987	BS 6914 <i>Terminology (including definitions of dimensions and symbols) for earth-moving machinery</i> Part 2:1988 <i>Glossary of terms for base machine</i> (Identical)
ISO 7457:1983	BS 6486:1984 <i>Method for measurement of turning dimensions of wheeled earth-moving machinery</i> (Identical)
ISO 9249:1989	BS 6911 <i>Testing earth-moving machinery</i> Part 4:1990 <i>Method for the evaluation of engine power output</i> (Identical)

Additional information. Clause 6 lists headings for and examples of information which manufacturers should consider including in their commercial literature specifications.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 16, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

1 Scope

This International Standard establishes terminology and the content of commercial literature specifications for self-propelled dumpers, as defined in ISO 6165.

NOTE In the French text, “tombereau” is used for dumper, and is the object of an official regulation in France.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 3450:1985, *Earth-moving machinery — Wheeled machines — Performance requirements and test procedures for braking systems*.

ISO 5010:1984, *Earth-moving machinery — Rubber-tyred machines — Steering capability*.

ISO 6014:1986, *Earth-moving machinery — Determination of ground speed*.

ISO 6165:1987, *Earth-moving machinery — Basic types — Vocabulary*.

ISO 6483:1980, *Earth-moving machinery — Dumper bodies — Volumetric rating*.

ISO 6746-1:1987, *Earth-moving machinery — Definitions of dimensions and symbols — Part 1: Base machine*.

ISO 7457:1983, *Earth-moving machinery — Measurement of turning dimensions of wheeled machines*.

ISO 9249:1989, *Earth-moving machinery — Engine test code — Net power*.

3 General definitions

3.1

dumper

self-propelled wheeled machine, having an open body, which transports and dumps or spreads material. Loading is performed by means external to the dumper. (See ISO 6165)

3.2

base machine

dumper as described by the manufacturer specifications

3.3

equipment

set of components mounted onto the base machine to fulfil the primary design function

3.4

attachment

optional assembly of components that can be mounted onto the base machine for a specific use

3.5

component

part of an assembly or part of a base machine, equipment or an attachment

4 Base machine

4.1 Types of dumpers

4.1.1 *Method of dumping*

4.1.1.1 *Rear dump (Figure 1)*

4.1.1.2 *Bottom dump (Figure 2)*

4.1.1.3 *Side dump (Figure 3)*

4.1.2 Steering system

4.1.2.1 *Front wheel steer (Figure 4)*

4.1.2.2 *Articulated steer (Figure 5)*

4.1.3 Drive system

4.1.3.1 *Rear wheel drive (Figure 6)*

4.1.3.2 *All wheel drive (Figure 7)*

4.1.3.3 *Centre axle drive (Figure 8)*

4.1.4 Number of axles

4.1.4.1 *Two axles (Figure 9)*

4.1.4.2 *Three axles (Figure 10)*

4.1.4.3 *More than three axles (Figure 11)*

Method of dumping (see 4.1.1)

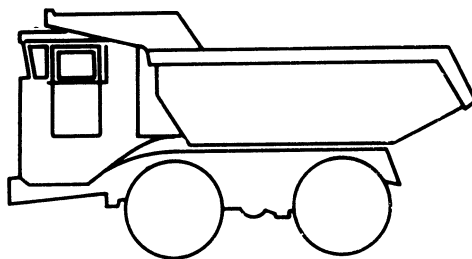


Figure 1 — Rear dump

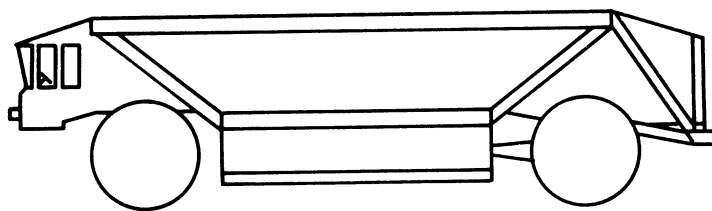


Figure 2 — Bottom dump

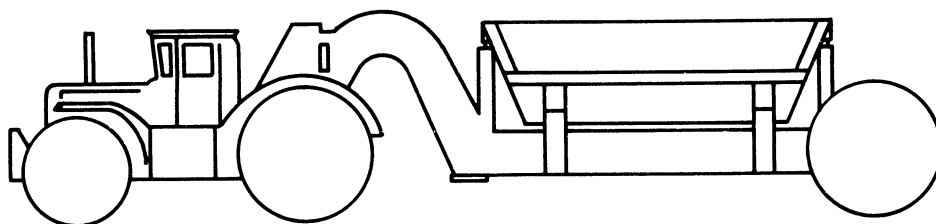
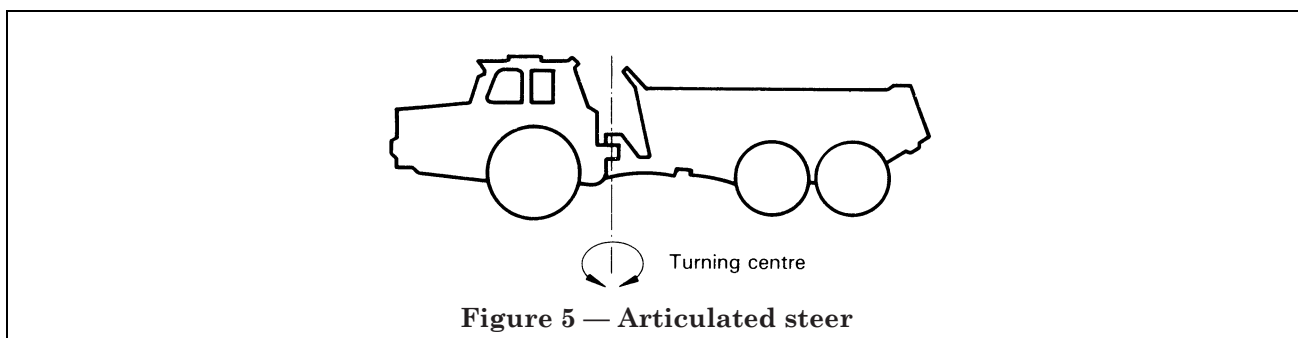
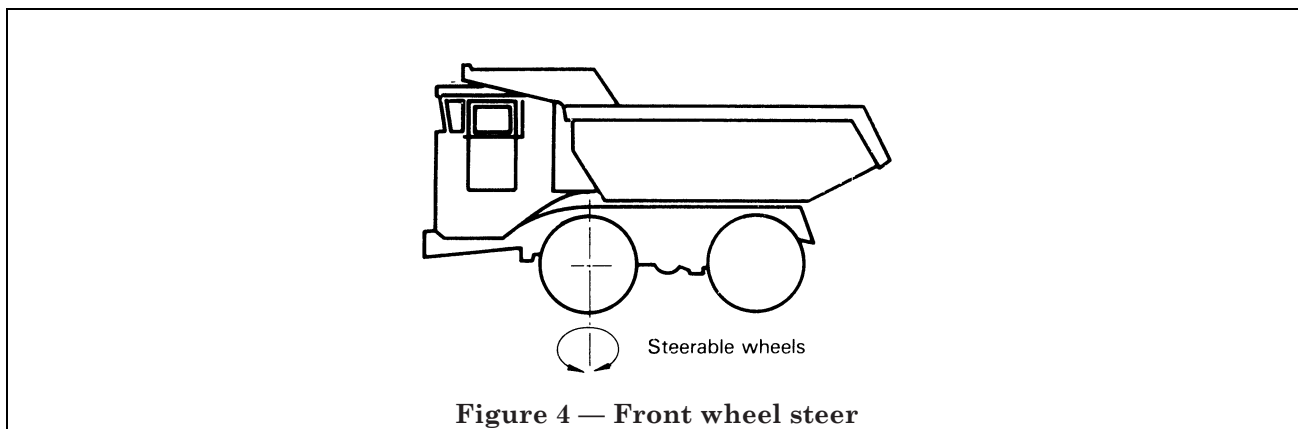


Figure 3 — Side dump

Steering system (see 4.1.2)**Drive system** (see 4.1.3)