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ISO 7132

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Earth-moving machinery — Dumpers — Terminology and commercial specifications

*Engins de terrassement — Tombereaux — Terminologie et spécifications
commerciales*

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 7132 was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*.

This second edition cancels and replaces the first edition (ISO 7132:1984); references to ISO 1585 have been replaced by ISO 9249 and 4.3.3 has been amended.

Annex A forms an integral part of this International Standard.

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Earth-moving machinery — Dumpers — Terminology and commercial specifications

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)

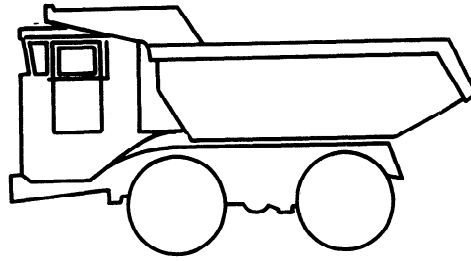


Figure 1 – Rear dump

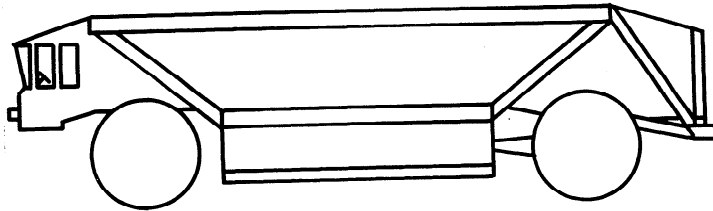


Figure 2 – Bottom dump



Figure 3 – Side dump

Steering system (see 4.1.2)

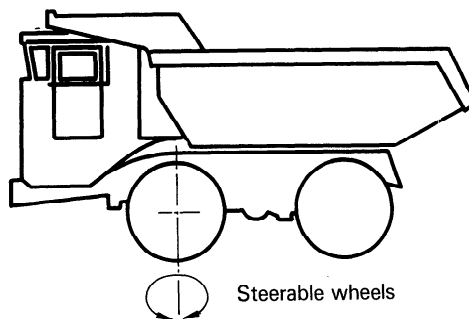


Figure 4 – Front wheel steer

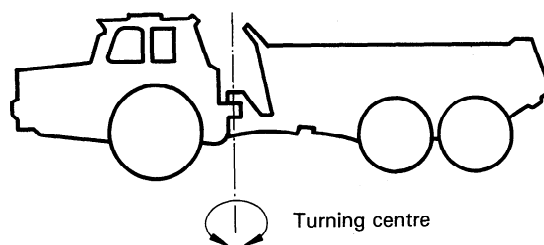


Figure 5 – Articulated steer

Drive system (see 4.1.3)

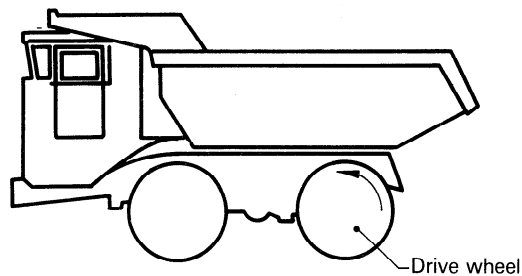


Figure 6 — Rear wheel drive



Figure 7 — All wheel drive

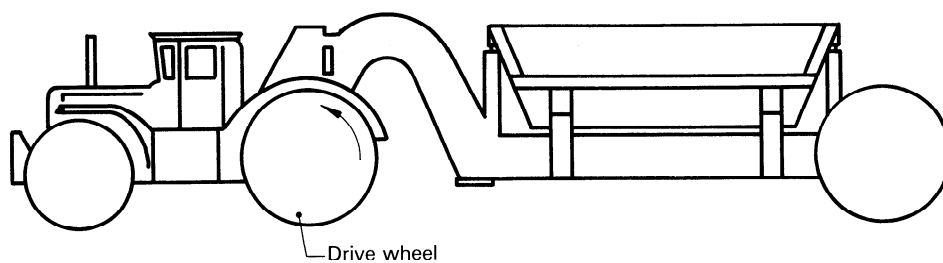


Figure 8 — Centre axle drive

Number of axles (see 4.1.4)

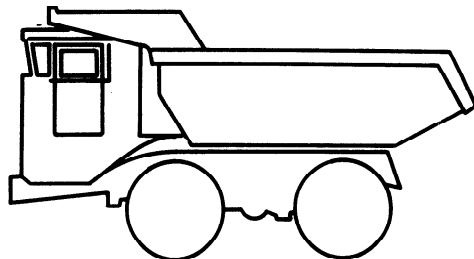
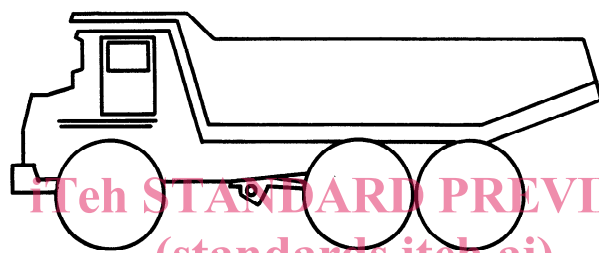


Figure 9 – Two axles



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Figure 10 ~~ISO~~ Three axles

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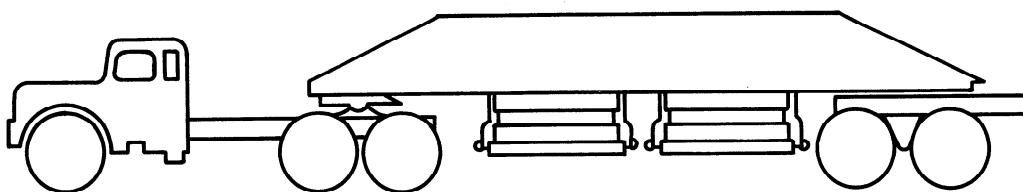
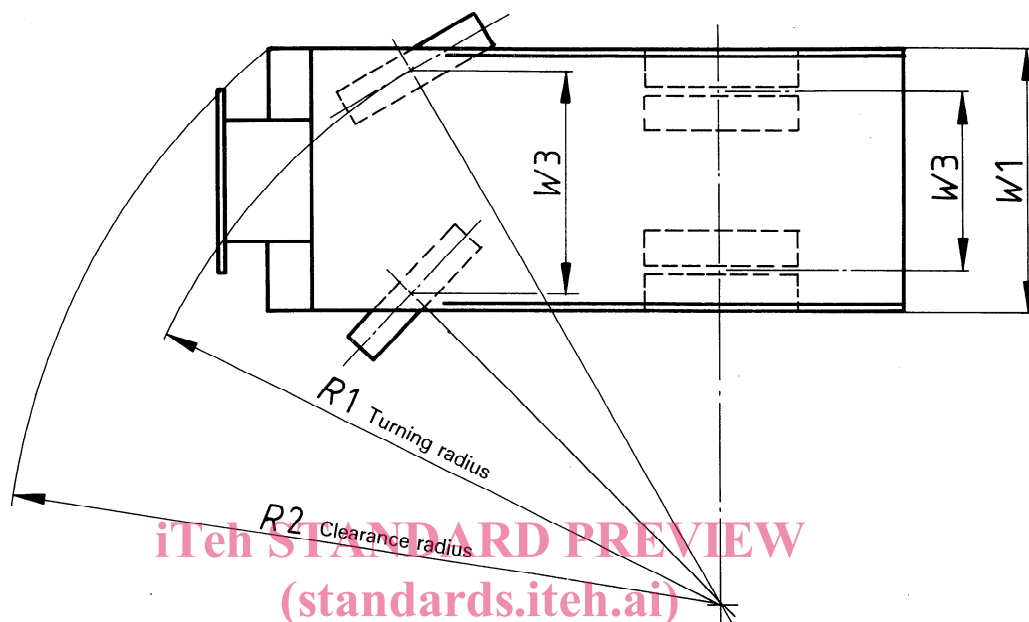


Figure 11 – More than three axles

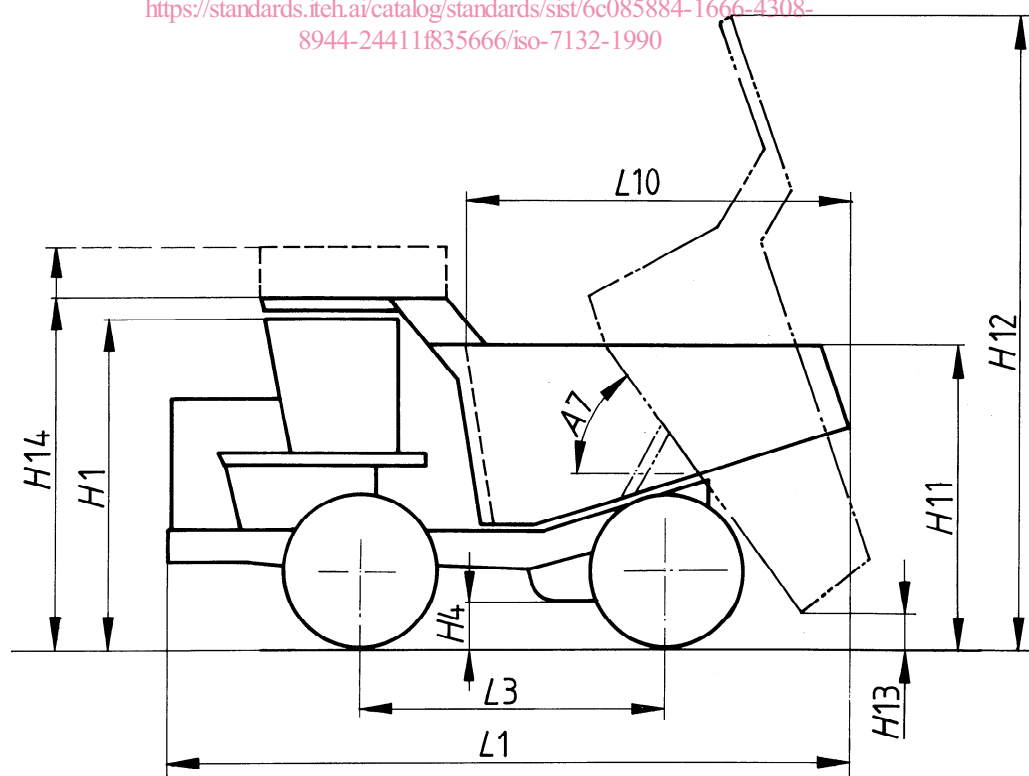
4.2 Dimensions (see figure 12)

For definitions of dimensions, see ISO 6746-1.

For definitions of dimensions strictly related to dumpers, see annex A.



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a) rigid frame

Figure 12 — Dimensions of base machine (dumper)

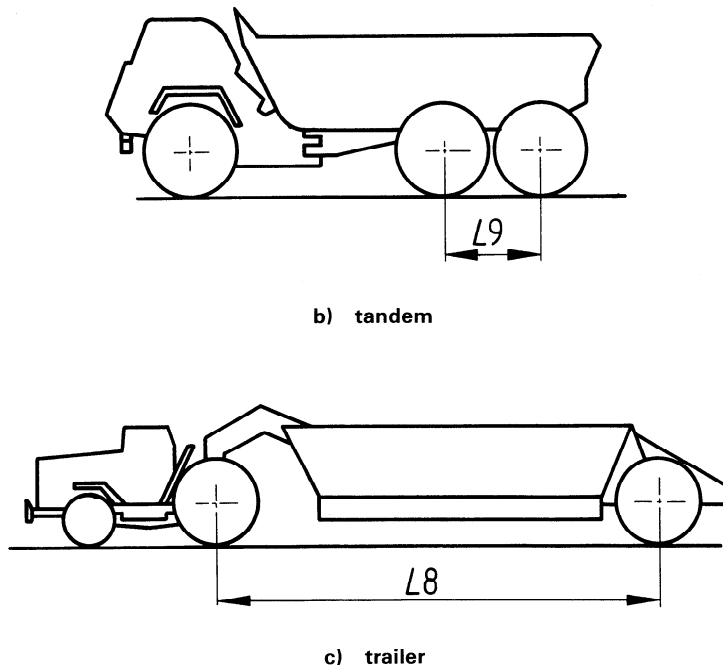


Figure 12 (concluded)

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4.3 Masses

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4.3.1 operating mass: Mass of the base machine with empty body, operator (75 kg), full fuel tank and full lubricating, hydraulic and cooling systems.

4.3.2 loaded mass: Sum of the operating mass and the manufacturer's rated payload.

4.3.3 axle distribution: Mass at each axle, machine empty and machine loaded.

4.3.4 shipping mass: Mass of the base machine with empty body, without operator, with full lubricating, hydraulic and cooling systems, 10 % of fuel tank capacity and with or without cab, canopy and ROPS¹⁾, as stated by the manufacturer.

4.3.5 cab, canopy, ROPS mass: Mass of cab, canopy and ROPS with all components and mountings required to secure these to the base machine.

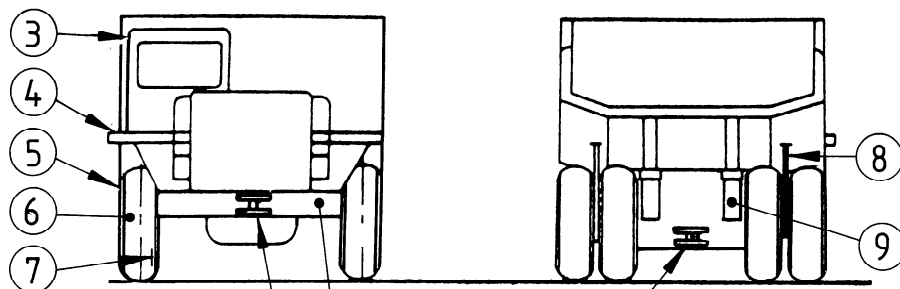
1) ROPS : Roll-over protective structure.

4.4 Nomenclature (see diagram numbers)

4.4.1 Component nomenclature, two axle rear dump

- 1 Bumper
- 2 Pin, towing
- 3 Cab
- 4 Fender
- 5 Wheel
- 6 Tyre
- 7 Brake
- 8 Bar, rock ejector
- 9 Suspension (opt.)

- 10 Pin, body pivot
- 11 Axle(s)
- 12 Prop, raised body
- 13 Body
- 14 Cylinder, dump
- 15 Drive system
- 16 Exhaust, atmospheric or body heating
- 17 Canopy
- 18 Frame, main
- 19 Hood
- 20 Ladder
- 21 Powerplant
- 22 Grille



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