

TC 127

# International Standard



# 7132

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

## 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.

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

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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.

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

## 2 Field of application

This International Standard applies to dumpers 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 6483, *Earth-moving machinery — Dumper bodies — 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 dumper :** A 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.)

**4.2 base machine :** A dumper as described by the manufacturer specifications.

**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 of an assembly of parts of a base machine, equipment or an attachment.

## 5 Base machine

### 5.1 Types of dumpers

#### 5.1.1 Method of dumping

5.1.1.1 Rear dump (figure 1)

5.1.1.2 Bottom dump (figure 2)

5.1.1.3 Side dump (figure 3)

#### 5.1.2 Steering system

5.1.2.1 Front wheel steer (figure 4)

5.1.2.2 Articulated steer (figure 5)

#### 5.1.3 Drive system

5.1.3.1 Rear wheel drive (figure 6)

5.1.3.2 All wheel drive (figure 7)

5.1.3.3 Centre axle drive (figure 8)

#### 5.1.4 Number of axles

5.1.4.1 Two axles (figure 9)

5.1.4.2 Three axles (figure 10)

5.1.4.3 More than three axles (figure 11)

Method of dumping (see 5.1.1)

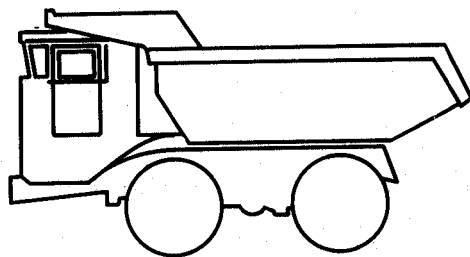


Figure 1 – Rear dump

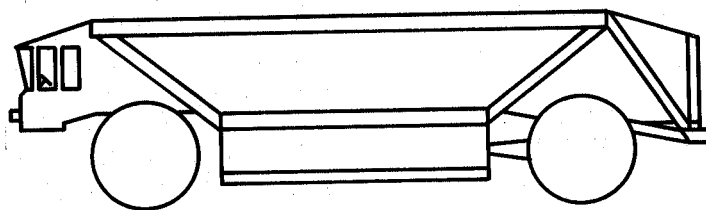


Figure 2 – Bottom dump

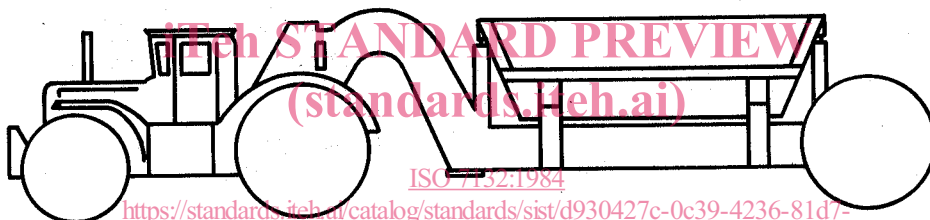


Figure 3 – Side dump

Steering system (see 5.1.2)

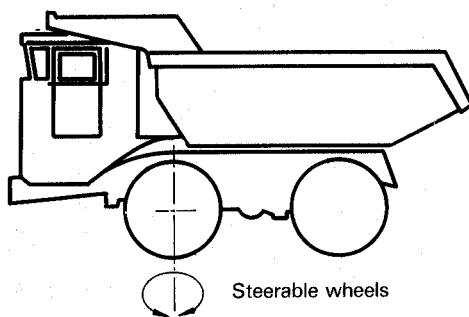


Figure 4 – Front wheel steer

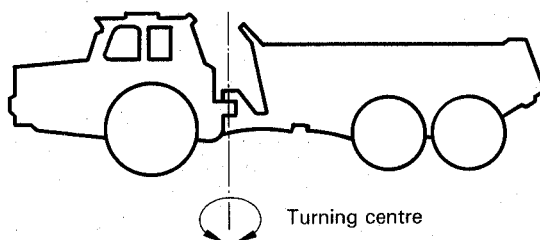


Figure 5 – Articulated steer

Drive system (see 5.1.3)

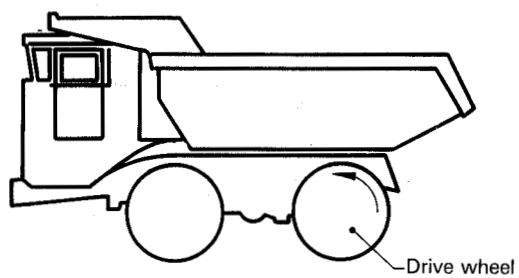


Figure 6 — Rear wheel drive

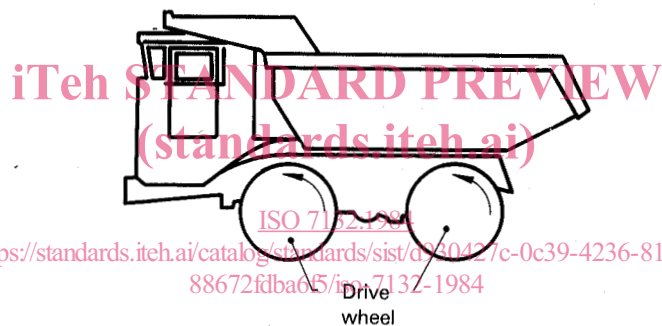


Figure 7 — All wheel drive

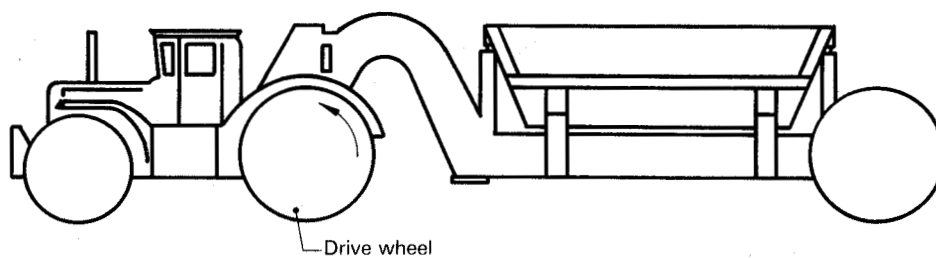


Figure 8 — Centre axle drive

Number of axles (see 5.1.4)

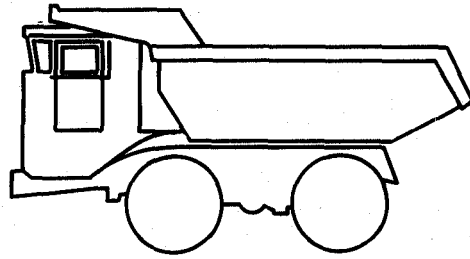
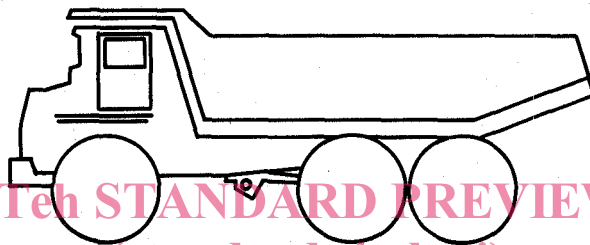


Figure 9 – Two axles



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Figure 10 – Three axles

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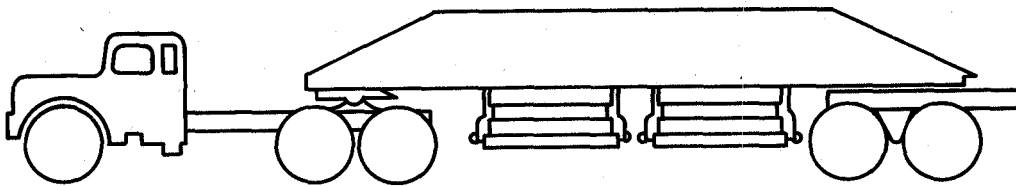


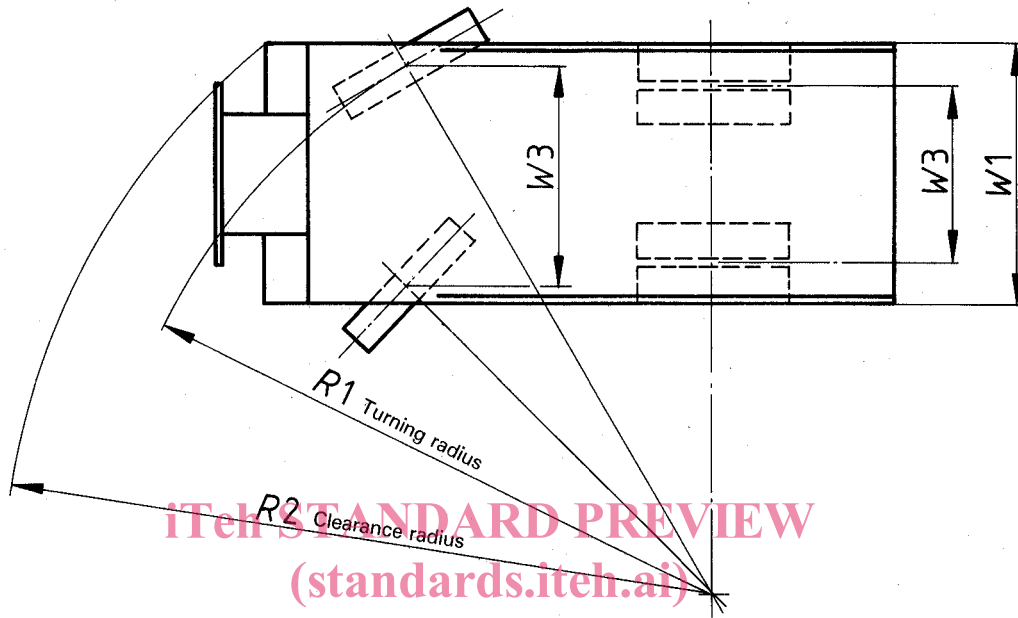
Figure 11 – More than three axles



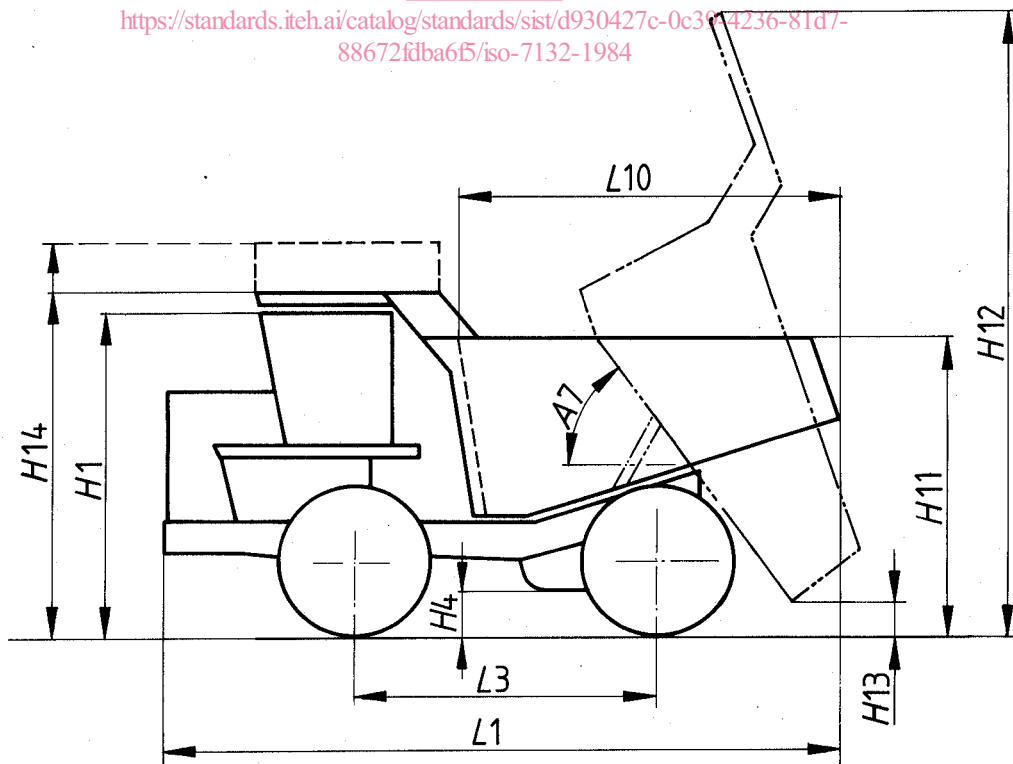
5.2 Dimensions (see figure 12)

For definitions of dimensions, see ISO 6746/1.

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



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a) rigid frame

Figure 12 — Dimensions of base machine (dumper)

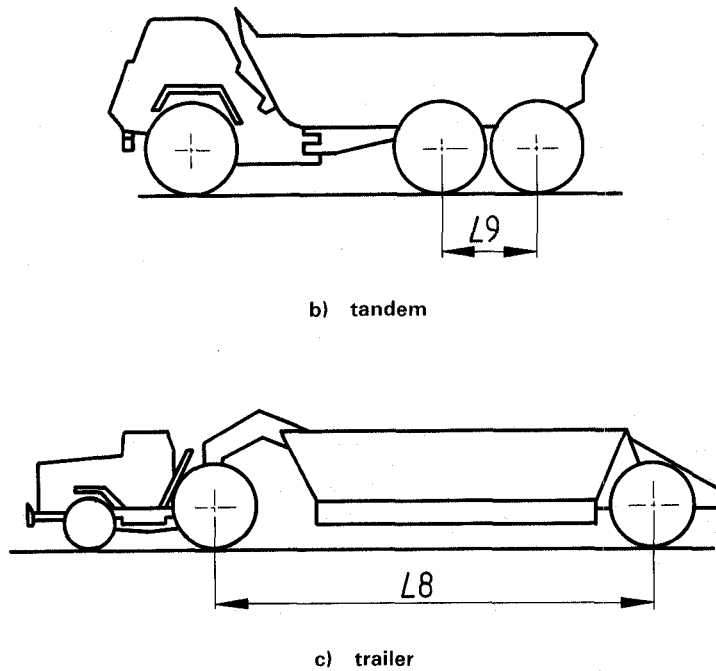


Figure 12 (concluded)  
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5.3 Masses

5.3.1 **operating mass** : The mass of the base machine with empty body, operator (75 kg), full fuel tank and full lubricating, hydraulic and cooling systems. <https://standards.iteh.ai/catalog/standards/sist/d930427c-0c39-4236-81d7-88672fd1ba6f5/iso-7132-1984>

5.3.2 **loaded mass** : The sum of the operating mass and the manufacturer's rated payload.

5.3.3 **axle distribution** : Percentage of machine mass or the actual mass at each axle, empty and loaded.

5.3.4 **shipping mass** : The 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 ROPS<sup>1)</sup>, as stated by the manufacturer.

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

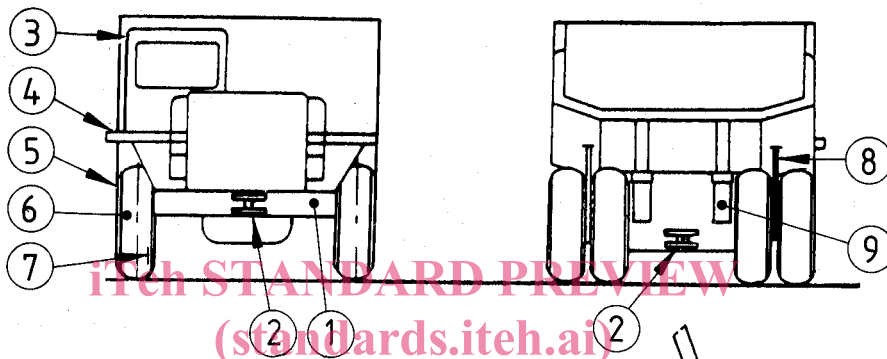
1) ROPS : Roll-over protective structure.

5.4 Nomenclature (see diagram numbers)

5.4.1 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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