
**Earth-moving machinery — Dumpers
— Terminology and commercial
specifications**

AMENDMENT 1

*Engins de terrassement — Tombereaux — Terminologie et
spécifications commerciales*
AMENDEMENT 1

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This document was prepared by Technical Committee 127, *Earth-moving machinery*, Subcommittee SC 4, *Terminology, commercial nomenclature, classification and ratings*.

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Earth-moving machinery — Dumpers — Terminology and commercial specifications

AMENDMENT 1

Page 1, Clause 2, Normative references

Undate ISO 6014:1986 into ISO 6014, ISO 6016:1998 into ISO 6016, ISO 6483:1980 into ISO 6483, ISO 7457:1997 into ISO 7457, and ISO 9249:1997 into ISO 9249.

Replace ISO 6165 title, “*Earth-moving machinery — Basic types — Vocabulary*”, with “*Earth-moving machinery — Basic types — Identification and terms and definitions*”.

Page 1, Clause 3, Terms and definitions, Sub-clause 3.1, General

Replace entry 3.1.1 with the following:

**“3.1.1
dumper**

self-propelled or towed crawler or wheeled machine with an open body, which transports and dumps or spreads material, and where loading is performed by means external to the dumper

Note 1 to entry: A compact dumper can have integral self-loading equipment.

[SOURCE: ISO 6165:2012, 4.6]

Add the following new entries 3.1.1.1 to 3.1.1.5 under 3.1.1:

**“3.1.1.1
rigid-frame dumper**

dumper (3.1.1) having a rigid frame and wheel or crawler steering

[SOURCE: ISO 6165:2012, 4.6.1]

**3.1.1.2
articulated-frame dumper**

dumper (3.1.1) with an articulated frame which accomplishes the steering of the machine

[SOURCE: ISO 6165:2012, 4.6.2]

**3.1.1.3
swing dumper**

dumper (3.1.1) having a 360° swing upper structure, whose upper structure consists of a rigid frame, the open body and the operator’s station, and whose undercarriage consists of a track type or wheeled unit

[SOURCE: ISO 6165:2012, 4.6.3]

**3.1.1.4
towed dumper
towed wagon**

dumper (3.1.1) that is not self-propelled but which is propelled instead by a towing machine on which the operator's station is located

Note 1 to entry: The towed dumper can function in different ways (e.g. side-dump, bottom-dump, rear-dump or use an ejector).

[SOURCE: ISO 6165:2012, 4.6.4]

**3.1.1.5
compact dumper**

articulated frame dumper (3.1.1.2) or *rigid frame dumper* (3.1.1.1) having an operating mass in accordance with ISO 6016 of 4 500 kg or less

Note 1 to entry: A compact dumper can have integral self-loading equipment.

[SOURCE: ISO 20474-6:2017, 3.5, modified - "in accordance with ISO 6016" has been added in the definition, Note 2 to entry has been deleted.]"

Page 2, Clause 3, Terms and definitions, Sub-clause 3.2, Performance

Replace entry 3.2.1 with the following:

**3.2.1
tractive force rimpull**
force available between the tyre or the crawler and the ground to propel the dumper"

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Replace entry 3.2.2 with the following:

**3.2.2
empty body dump and return time**
full movement cycle time of a body, door or ejector without load, at the rated engine speed, consisting of *empty body dump time* (3.2.2.1) and *empty body return time* (3.2.2.2)

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**3.2.2.1
empty body dump time**
movement time of a body, door or ejector without load, at the engine speed as specified by the manufacturer at which the empty dump body can dump within a shortest timeframe, from the beginning of the movement of a body dumping or of a door/ejector opening to the end of the dumping or opening movement

**3.2.2.2
empty body return time**
returning movement time of a body, door or ejector without load, at the engine speed as specified by the manufacturer at which the empty dump body can return within a shortest timeframe, from the body uppermost position (after dumping) or from the door/ejector most widely opened position to the beginning position of a body dumping or a door/ejector opening"

Page 3, 4.1.1, seventh dash

Replace "Slewing dump" with "Swing dump".

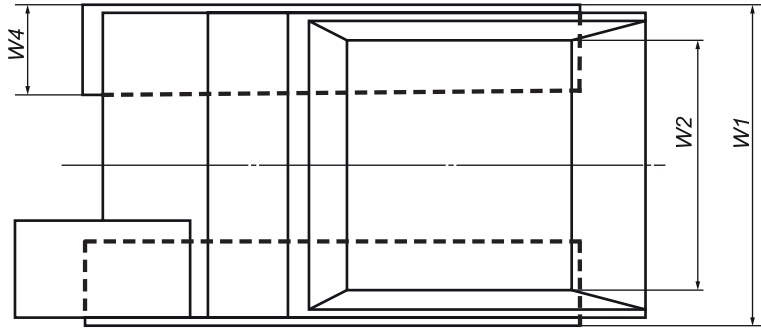
Page 4, Figure 7, title

Replace "Slewing dump" with "Swing dump".

Page 11, Clause 4

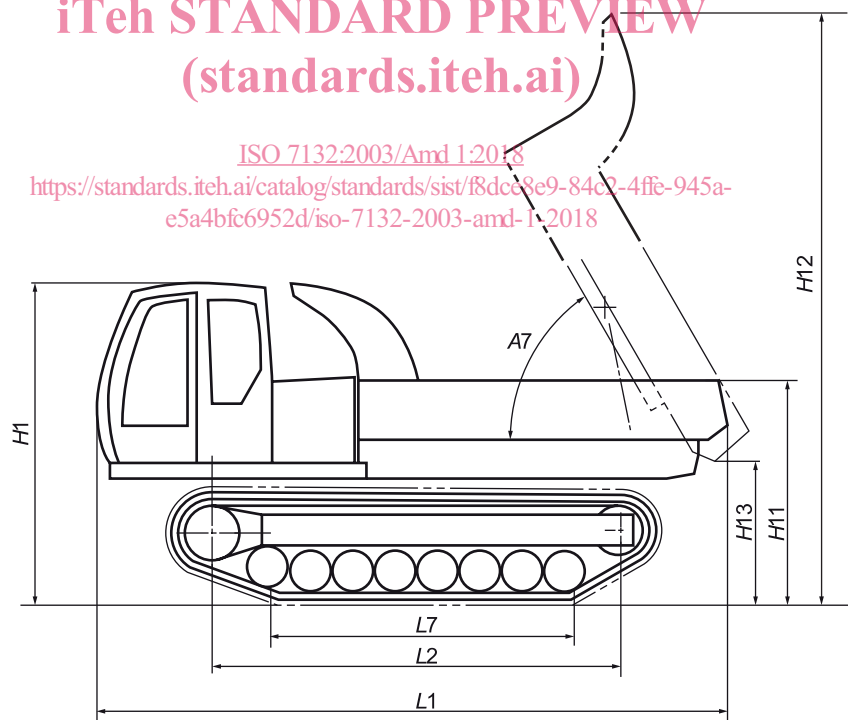
Add a new sub-figure "d) Crawler dumper" to existing Figure 26, renumber 4.2.2 into 4.2.3, and insert a new "4.2.2 Crawler dumper", after 4.2.1, as follows:

"



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d) Crawler dumper

Figure 26 — Dimensions of base machine — Dumper

4.2.2 Crawler dumper

See Figure 26 d). For additional definitions of dimensions and their terms and codes related to dumpers, see Annex A.”

Page 13, sub-clause 4.2.2 (now renumbered 4.2.3), Figure 30

Rename code "L" (without numeral) into "L7", add a sub-title "a) Front operator position" to the existing figure, and add a new sub-figure entitled "b) Front LH operator position", as follows:

“

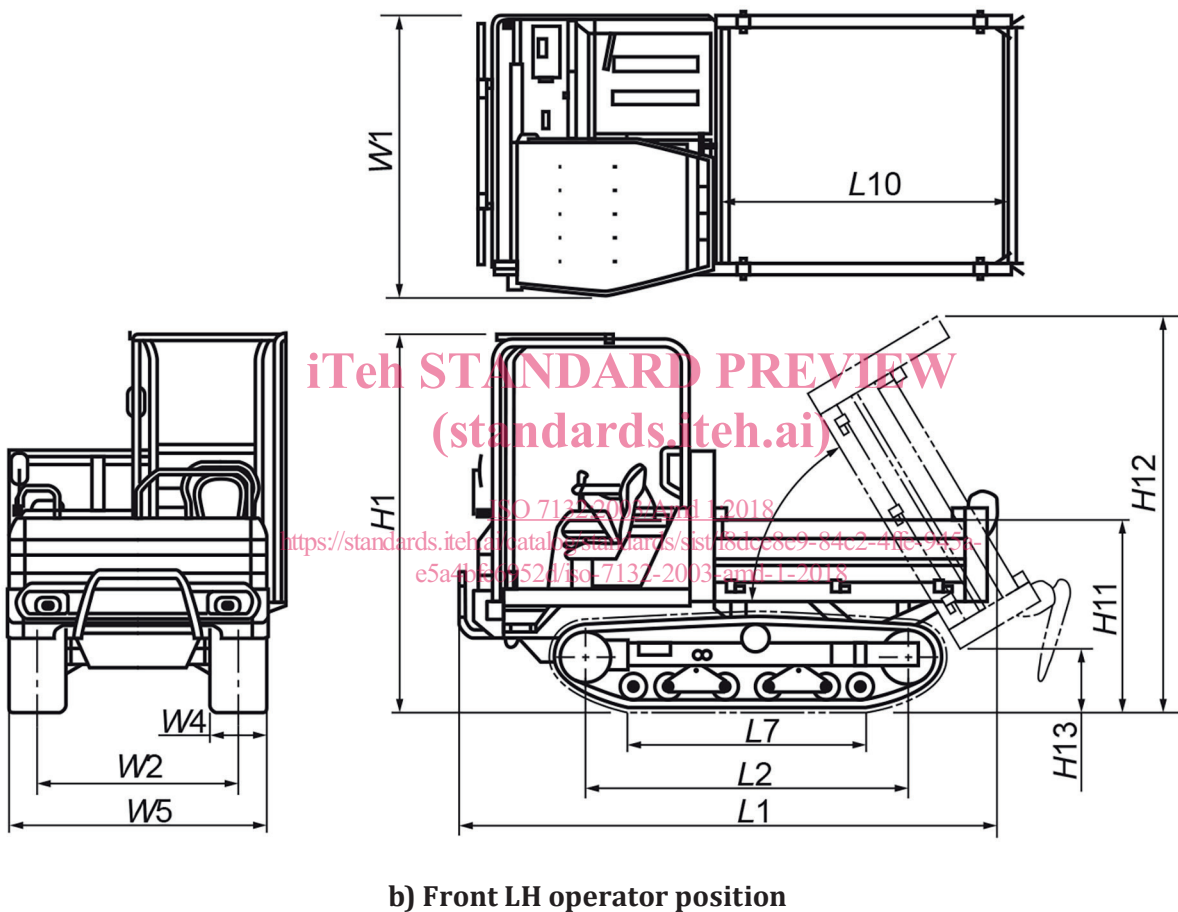


Figure 30 — Dimensions of crawler compact dumper — Front operator position”

Page 27, Annex A

Add Code L7 with its term and definition as follows:

Code	Term and definition	Illustration
L7	crawler ground contact length distance on X coordinate between the machine crawler ground contacting most front end and the rearmost end	See Figure 26, d)

Add new codes *W5* and *L7* with their term and definition, delete “*A14* < 30°” from the definition of Code *A14*, and delete “*L15* < 200 mm” from the definition of Code *L15*, as follows:

Code	Term and definition	Illustration
<i>W5</i>	crawler undercarriage overall width distance on Y coordinate between two Y planes passing through the farthest points of the machine undercarriage on both sides of the zero Y plane	See Figure 30 b)
<i>L7</i>	crawler ground contact length distance on X coordinate between the machine crawler ground contacting most front end and the rearmost end	See Figure 30 b)
<i>A14</i>	self-loading front dump angle maximum angle that the bottom face of the bucket will rotate below the horizontal with the bucket rotated fully forwards	See Figure 31
<i>L15</i>	self-loading dump reach the maximum distance on the X coordinate between the forward edge of the body and the forward edge of the bucket at its maximum forward extension	See Figure 31

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