
**Road construction and maintenance
equipment — Paver-finishers —
Commercial specifications**

*Équipement pour la construction et l'entretien des routes —
Finisseurs — 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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 195, *Building construction machinery and equipment*.

This second edition cancels and replaces the first edition (ISO 15878:2008), which has been technically revised. It also incorporates the Technical Corrigendum ISO 15878:2008/Cor 1:2008.

The main changes compared to the previous edition are as follows:

- clarification of the Scope;
- update of terminology to align with the state of the art;
- introducing definitions of different compaction types;
- combining the clauses 'Operating principle' and 'Description of an asphalt paver' into 'Commercial specifications'.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

Paver-finishers are used in road construction and for maintenance to place and pre-compact paving materials using the floating/self-levelling screed method. The weight of the screed and its forward motion combined with additional vibrating and reciprocating elements are used to pre-compact the mixture to form a mat.

The design type of a paver-finisher is typically determined according to the following criteria.

- Type of tractor:
 - wheeled (see [Figure A.1](#));
 - steel crawler-mounted with replaceable track plates (see [Figure A.2](#));
 - rubber crawler-mounted (see [Figure A.3](#)).
- Method of mixture transfer from hopper to the screed:
 - by slat conveyor (see [Figure A.4](#));
 - by screw conveyor (see [Figure A.12](#));
 - by gravity.
- Screed type:
 - fixed width (see [Figure A.4](#));
 - extendable (see [Figure A.13](#)).

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Road construction and maintenance equipment — Paver-finishers — Commercial specifications

1 Scope

This document establishes the content for commercial specifications for paver-finishers used in road construction and maintenance processes for the placement and pre-compaction of paving materials. It covers the machine and its components and establishes parameters for technical characteristics for both.

This document does not cover commercial specifications for road wideners which can perform similarly to a paver-finisher under certain conditions.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3046-1, *Reciprocating internal combustion engines — Performance — Part 1: Declarations of power, fuel and lubricating oil consumptions, and test methods — Additional requirements for engines for general use*

ISO 3911, *Wheels and rims for pneumatic tyres — Vocabulary, designation and marking*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1

paver-finisher

mobile self-propelled machine consisting of a *tractor* (3.66) and a free floating *screed* (3.45) intended for the placement and pre-compaction of the paving material using the floating/self-levelling screed method

3.1.1

pre-compaction screed paver-finisher

tractor (3.66) equipped with a *pre-compaction screed* (3.45.1)

3.1.2

compaction screed paver-finisher

tractor (3.66) equipped with a *compaction screed* (3.45.2)

3.1.3

high-compaction screed paver-finisher

tractor (3.66) equipped with a *high-compaction screed* (3.45.3)

3.2

adjustable width strike-off

adjustable width mouldboard

movable blade at the leading edge of a *fixed width screed* (3.22) for varying paving width

Note 1 to entry: For an example, see [Figure A.6](#).

3.3

angle of approach

angle between the *GRP* (3.25) and a plane tangent to the forward tyres or tracks of the machine and passing through the lowest point of any structure or component forward of the tyres or tracks which limits the magnitude of the angle

Note 1 to entry: See [Figure A.20](#), angle α_1 .

3.4

angle of departure

angle between the *GRP* (3.25) and a plane tangent to the rear tyres or tracks of the machine and passing through the lowest point of any structure or component behind the tyres or tracks which limits the magnitude of the angle

Note 1 to entry: See [Figure A.20](#), angle α_2 .

3.5

apron

area of the *hopper* (3.26) in front of the *conveyor* (3.14)

Note 1 to entry: For an example, see [Figure A.10](#).

3.6

emission reducing device

ERD

system to extract or reduce emissions from bitumen or other volatile or suspended substances from the *screed* (3.45) area and the *paver-finisher operator stations* (3.8)

3.7

paver-finisher operator

person whose primary functions are to control paver speed, direction and laying of the paving material

3.8

paver-finisher operator station

designated location from which the *paver-finisher operator* (3.7) controls the functions of the paver

3.9

automatic feeder system control

system for automatic control of the flow of the paving material to the *screed* (3.45)

3.10

automatic screed control

system for automatic control of the *mat* (3.32) profile in relation to an external physical reference or 3D coordinates

3.11

bevel edger

attachment for putting a sloped surface on the edge of the *mat* (3.32)

3.12

bracing

device for reinforcing the *screed* (3.45) when built up for large working widths

3.13**cut-off plate**

attachment used in conjunction with the *screed end plate* (3.47) to reduce the effective *screed* (3.45) width

3.14**conveyor**

device for transferring the paving material from the *hopper* (3.26) to the *spreading auger* (3.56)/*screed* (3.45)

Note 1 to entry: Examples include slat-type or screw-type.

Note 2 to entry: For examples, see [Figure A.4](#) and [Figure A.12](#).

3.15**conveyor tunnel**

passageway through which the paving material moves from the *hopper* (3.26) to the *spreading auger* (3.56)/*screed* (3.45)

Note 1 to entry: For an example, see [Figure A.4](#).

3.16**conveyor capacity**

C

capacity in t/h, derived from the following formula:

$$C = D \cdot A \cdot S \cdot E$$

where:

D is the paving material bulk density (1,75 t/m³);

A is the tunnel area, in m², as measured at the tunnel opening [total for all *conveyors* (3.14)];

S is the maximum conveyor speed, in m/min, in paving mode, multiplied by 60;

E is coefficient of conveyor efficiency (noting the conveyor efficiency used in the calculation)

3.17**conveyor flow gate**

device for adjustment of the height of the paving material being transferred by the *conveyor* (3.14)

Note 1 to entry: For an example, see [Figure A.4](#).

3.18**crown**

angle between a section of *screed* (3.45) and the horizontal

Note 1 to entry: A positive crown is defined as the outer end of the screed lower than the inner end.

Note 2 to entry: See [Figure A.25](#).

3.19**crown control**

device that shapes the *screed* (3.45) to form a *mat* (3.32) with the desired *crown* (3.18)

Note 1 to entry: For an example, see [Figure A.10](#).

3.20

extendable screed

screed (3.45) with permanently mounted extensions that can be extended or retracted to change the *mat* (3.32) width when the paver is in operation

Note 1 to entry: For an example, see [Figure A.13](#).

3.21

extension slope

angle (maximum positive to maximum negative) between the extension and the adjacent section of the *screed* (3.45)

Note 1 to entry: Positive slope is defined as the outer end of the extension lower than the inner end.

Note 2 to entry: See [Figure A.26](#).

3.22

fixed width screed

screed (3.45) with a constant width that can only be changed by adding or removing *screed extensions* (3.48)

Note 1 to entry: For an example, see [Figure A.10](#).

3.23

automatic grade control

automatic grade and slope control

system for control of the longitudinal profile of the *mat* (3.32) following a physical reference

Note 1 to entry: Examples include a joint, a string line, a curb, the base, a mobile reference, a *slope beam* (3.54) or following a 3D coordinate reference.

3.23.1

three-dimensional grade control

3D grade control

system that uses a three-dimensional coordinate as a reference to control the profile of the pavement

Note 1 to entry: This can include lateral control of the *tractor* (3.66) or *screed* (3.45).

Note 2 to entry: For an example, see [Figure A.10](#).

3.23.2

three-dimensional paver control

3D paver control

system that uses a three-dimensional coordinate as a reference to control the profile of the pavement and the width and/or direction of the pavement

3.24

grade control sensor

device that provides a vertical reference measurement

3.24.1

physical referenced grade controller

grade control sensor (3.24) using physical reference

3.24.2

3D coordinates referenced grade controller

grade control sensor (3.24) using 3D coordinates as reference

Note 1 to entry: For an example, see [Figure A.10](#).

3.25**ground reference plane****GRP**

plane on which the machine is placed for measurements: in the case of the base machine, a hard, level surface; in the case of equipment and attachments, either a hard, level surface or compacted earth

Note 1 to entry: The surface used depends on the intended use of the machine and its equipment and attachments.

[SOURCE: ISO 6746-1:2003, 3.2]

3.26**hopper**

component of the *paver-finisher* (3.1) which receives the paving material from an external source

Note 1 to entry: For an example, see [Figure A.4](#).

3.27**hopper capacity**

struck volume of the *paver-finisher* (3.1) *hopper* (3.26) including the volume of the *conveyor* (3.14) in front of the rear hopper wall

3.28**hopper insert**

device to increase *hopper capacity* (3.27)

3.29**machine clearance circle**

radius of the smallest circle which encloses the outermost point of the machine projection with the machine in operating configuration while executing its sharpest practical turn

Note 1 to entry: See [Figure A.22](#), dimension R_1 .

3.30**operating mass**

mass of the machine in operating configuration with a 75 kg *paver-finisher operator* (3.7)

Note 1 to entry: On wheeled machines, the mass of the tyre ballast is included (if provided or recommended by the machine manufacturer).

3.31**shipping mass**

mass of the machine as shipped by the manufacturer including the standard components detached and shipped loose with the machine

3.32**mat**

paving material that has been placed by a *screed* (3.45) or *strike-off* (3.59)

3.33**material feed system**

combined *conveyor* (3.14) and auger components that transfer the paving material from the *hopper* (3.26) and distribute it in front of the *screed* (3.45)

Note 1 to entry: For an example, see [Figure A.4](#).

3.34**material feed sensor**

device used to detect the quantity of the paving material in front of the *screed* (3.45)

Note 1 to entry: For an example, see [Figure A.4](#).

3.35

material retaining plate

material limiting plate

attachment installed in front of a *spreading auger* (3.56) extension to prevent the paving material from flowing forwards

3.36

mobile grade reference

towed attachment that provides an independent reference for the *automatic grade control* (3.23)

Note 1 to entry: For an example, see [Figure A.10](#).

3.37

overall operating height

vertical distance from the *GRP* (3.25) to the highest point of the machine with the machine in operating configuration

Note 1 to entry: See [Figure A.21](#), dimension H_3 .

3.38

overall shipping height

vertical distance from the *GRP* (3.25) to the highest point of the machine in shipping configuration

Note 1 to entry: See [Figure A.23](#), dimension H_4 .

3.39

overall operating length

longitudinal distance between the extreme front and rear points of the machine with the machine in operating configuration

Note 1 to entry: See [Figure A.23](#), dimension L_1 .

3.40

overall shipping length

longitudinal distance between the extreme front and rear points of the machine with the machine in shipping configuration

Note 1 to entry: See [Figure A.23](#), dimension L_2 .

3.41

overall operating width of the tractor

minimum transverse distance between the extreme points of either side of the *tractor* (3.66) with the machine in operating configuration, but with the *hopper* (3.26) wings lowered

Note 1 to entry: See [Figure A.24](#), dimension W_2 .

3.42

overall shipping width

transverse distance between the extreme points on the sides of the machine with the *tractor* (3.66) in shipping configuration

Note 1 to entry: See [Figure A.21](#), dimension W_6 .

3.43

paving speed

forward speed over a hard, horizontal surface in the designated range

3.44

push-roller

device that contacts the tyres of the paving material delivery vehicle

Note 1 to entry: For an example, see [Figure A.4](#).

3.45 screed

device towed behind the *tractor* (3.66) to strike off, compact, contour and smooth the paving material

Note 1 to entry: For an example, see [Figure A.13](#).

3.45.1 pre-compaction screed

screed (3.45) that compacts the paving material by the profile of the front of the *screed plate* (3.52), the angle of attack and its weight

Note 1 to entry: For an example, see [Figure A.14](#).

3.45.2 compaction screed

screed (3.45) fitted with a single compaction system in addition to the pre-compacting system.

Note 1 to entry: The additional compaction system can include vibrators, *tamper bars* (3.60) or *pressure bars* (3.73).

Note 2 to entry: For examples see [Figure A.15](#) and [Figure A.16](#).

3.45.3 high-compaction screed

screed (3.45) fitted with at least two compaction systems in addition to the pre-compacting system

Note 1 to entry: The additional compaction systems can include vibrators, *tamper bars* (3.60) or *pressure bars* (3.73).

Note 2 to entry: For examples see [Figure A.17](#), [Figure A.18](#) and [Figure A.19](#).

3.46 tow arm

attachment by which the *screed* (3.45) is connected to and towed by the *tractor* (3.66)

Note 1 to entry: For an example, see [Figure A.4](#).

3.47 screed end plate

vertically adjustable plate at the outboard end of the *screed* (3.45), which retains the paving material and forms the edge of the *mat* (3.32)

Note 1 to entry: For an example, see [Figure A.4](#).

3.48 screed extension

bolt-on attachment to the *screed* (3.45) to increase the width of the *mat* (3.32)

Note 1 to entry: For an example, see [Figure A.2](#).

Note 2 to entry: The screed extension can be fixed or adjustable.

Note 3 to entry: Screed extensions can be used to extend fixed or *extendable screeds* (3.20).

3.49 screed heater

device to heat the *screed plate* (3.52) to minimize adhesion of the paving material

3.50 screed lift

device used to raise the *screed* (3.45)

Note 1 to entry: For an example, see [Figure A.10](#).

3.51

screed mounted paver-finisher operator control

device used to control some of the paving functions of the *screed* (3.45)

3.52

screed plate

component of the *screed* (3.45) that shapes and smoothes the top surface of the *mat* (3.32)

Note 1 to entry: For an example, see [Figure A.14](#).

3.53

screed travel lock

device that secures the *screed* (3.45) in the raised position

Note 1 to entry: For an example, see [Figure A.11](#).

3.54

slope beam

component on which the *slope sensor* (3.55) is mounted

Note 1 to entry: For an example, see [Figure A.10](#).

3.55

slope sensor

device that reports gravity-based angles

Note 1 to entry: For an example, see [Figure A.10](#).

3.56

spreading auger

screw *conveyor* (3.14) used for transverse distribution of paving material ahead of the *screed* (3.45)

Note 1 to entry: For an example, see [Figure A.2](#).

3.57

spreading auger ground clearance

vertical distance [*screed* (3.45) position up/down] from the *GRP* (3.25) to the lowest point of the auger, including reversing paddles

Note 1 to entry: See [Figure A.20](#), dimension H_1 .

3.58

steering guide

sighting device to enable the *paver-finisher operator* (3.7) to follow a predetermined course

Note 1 to entry: For an example, see [Figure A.4](#).

3.59

strike-off

height-adjustable mouldboard

attachment at the front of a *screed* (3.45) for metering the paving material flowing under the screed

Note 1 to entry: For an example, see [Figure A.5](#), [Figure A.6](#), [Figure A.7](#), [Figure A.8](#) and [Figure A.9](#).

3.60

tamper bar

component on the *screed* (3.45), used to provide additional compaction of the paving material

Note 1 to entry: For an example, see [Figure A.16](#).

3.61**thickness control**

device to manually adjust the *mat* (3.32) thickness

Note 1 to entry: See [Figure A.4](#).

3.62**three-dimensional positioning system****3D positioning system**

system that provides positional data based on a three-dimensional coordinate system

3.63**tow point**

pull point

point at which the *tow arm* (3.46) is attached to the *tractor* (3.66)

Note 1 to entry: For an example, see [Figure A.4](#).

3.64**track length****track length on ground**

longitudinal distance of a track in contact with the *GRP* (3.25)

Note 1 to entry: See [Figure A.23](#), dimension L_3 .

3.65**track width**

transverse width of the track in contact with the *GRP* (3.25)

Note 1 to entry: See [Figure A.24](#), dimension W_4 .

3.66**tractor**

component of a paver which provides propulsion and can also receive, convey and distribute the paving material

Note 1 to entry: For an example, see [Figure A.4](#).

Note 2 to entry: The tractor can be either wheeled, steel crawler-mounted or rubber crawler-mounted.

3.67**maximum travel speed**

maximum forward speed over a hard, horizontal surface in the highest speed range

3.68**truck-hitch**

device used to hold a paving material delivery vehicle in the proper position relative to the paver when unloading the material into the *hopper* (3.26)

3.69**turning radius**

distance from the turning centre to the centre of contact with the ground of the wheel describing the largest circle while the machine is executing the sharpest practical turn

Note 1 to entry: See [Figure A.22](#), dimension R_2 .

3.70

truck entry clearance height

vertical distance from the *GRP* (3.25) to the highest non-removable point on the *hopper* (3.26) or *apron* (3.5) which would restrict the entry of a truck into the hopper, with the machine in operating configuration

Note 1 to entry: Points more than 1,3 m on either side of the longitudinal centre or more than 1,0 m rearward of the front of the *push-rollers* (3.44) shall be disregarded.

Note 2 to entry: See [Figure A.23](#), dimension H_5 .

3.71

truck entry clearance width

transverse distance between the innermost points of the *hopper* (3.26) sides which would restrict the entry of a truck into the hopper, measured at or above the *truck entry clearance height* (3.70), with the machine in operating configuration

Note 1 to entry: Points more than 1,0 m rearward of the front of the *push-rollers* (3.44) shall be disregarded.

Note 2 to entry: See [Figure A.24](#), dimension W_5 .

3.72

wheel base

longitudinal distance from the centre of the rear tyre to the centre of the front tyre

Note 1 to entry: For bogie front suspension, the distance is measured to the bogie pivot.

Note 2 to entry: For tandem drive axles, the distance is measured to a point midway between the axles.

Note 3 to entry: See [Figure A.20](#), dimension L_4 .

3.73

pressure bar

component on the *screed* (3.45), used to provide additional compaction of the paving material

4 Commercial specifications

4.1 Type of paver-finisher

The type of the paver-finisher, for example, wheeled, steer crawler-mounted or rubber crawler-mounted with fixed width screed or extendable screeds with or without bolt-on extensions, shall be specified. The method of mixture transfer from hopper to the screed (material feed system) and the type of material compaction system (e.g. pre-compaction screed paver-finisher, compaction screed paver-finisher, high compaction screed paver-finisher) shall also be specified.

[Annex A](#) gives examples of various types of paver-finishers, screed types and other features.

NOTE The examples of specifications for different types of asphalt paver-finisher are presented in [Figure A.4](#), [Figure A.10](#), [Figure A.11](#) and [Figure A.12](#).

4.2 Basic characteristics of paver-finishers

The following parameters shall be specified:

a) Laying performance:

- | | |
|---------------------------|-----|
| — maximum laying capacity | t/h |
| — minimum paving width | mm |

— maximum paving width (with optional screed extensions)	mm
— minimum paving thickness	mm
— maximum paving thickness	mm
b) Turning radius	mm
c) Machine clearance circle	mm
d) Maximum paving speed(s)	m/min
e) Maximum travel speed	km/h
f) Crown (positive and negative)	% or degrees
g) Type of material compaction system	See 3.45
h) Vibrator frequency	Hz
i) Hopper capacity	t or m ³
j) Hopper insert capacity (if equipped)	t or m ³
k) Engine:	
— manufacturer and model	
— power	kW (in accordance with ISO 3046-1)
l) Type of heating system	electric, hot air, LPG or diesel fuel burners
m) Overall dimensions in operating mode	
— overall operating length	mm
— minimum operating minimum width	mm
— overall operating height	mm
n) Operating mass (with or without hopper insert)	kg
o) ERD	Yes / no

4.3 Other characteristics

The following other characteristics shall be specified (as applicable):

a) Spreading auger diameter	mm
NOTE 1 See Figure A.20 , dimension D_1 .	
b) Spreading auger ground clearance	mm
c) Conveyor capacity	t/h
d) Tamper frequency	Hz
e) Tamper stroke	mm

f)	Angle of approach	degrees
g)	Angle of departure	degrees
h)	Extension slope	% or degrees
i)	Screed heater capacity	kW
	— total heat input for all screed heaters	
	— type of heating	(e.g. LPG, electricity)
	— number of heaters	
	— fuel type	
	— fuel pressure	
j)	Type of traction drive	
	— rear drive only	
	— rear drive with front wheel assist	
	— all-wheel drive	
k)	Type of steering system (e.g. front wheel steering)	
l)	Electrical system	
	— supply voltage	V
	— charging amperage	A
m)	Ground clearance	mm
n)	Gauge of wheel or crawler track	mm
NOTE 2 See Figure A.21 , dimension W_1 , and Figure A.24 , dimension W_1 .		
o)	Crawler track length on ground	mm
p)	Crawler track width	mm
q)	Tyre size	(in accordance with ISO 3911)
r)	Wheel base	mm
s)	Truck entry clearance height	mm
t)	Truck entry clearance width	mm
u)	Overall shipping dimensions:	
	— overall shipping length	mm
	— overall shipping width	mm
	— overall shipping height	mm
v)	Shipping mass	kg

4.4 Additional equipment

The following other characteristics shall be specified (as applicable):

- Automatic feeder system control
- Automatic screed control
- Bevel edger
- Cut-off plate
- Automatic grade control
- Three-dimensional grade control (3D grade control)
- Three-dimensional paver control (3D paver control)
- Screed mounted paver-finisher operator control
- Three-dimensional positioning system (3D positioning system)
- Truck-hitch

5 Measurements

5.1 General

Measurements shall be made with standard equipment or equipment as specified, without paving material, with full fuel, lubrication, cooling and hydraulic systems, and with pneumatic tyres at the machine manufacturer's recommended inflation pressure.

5.2 Operating configuration

Operating configuration shall be made with standard equipment provided for normal placement of paving material and with the screed and hopper wings down.

5.3 Shipping configuration

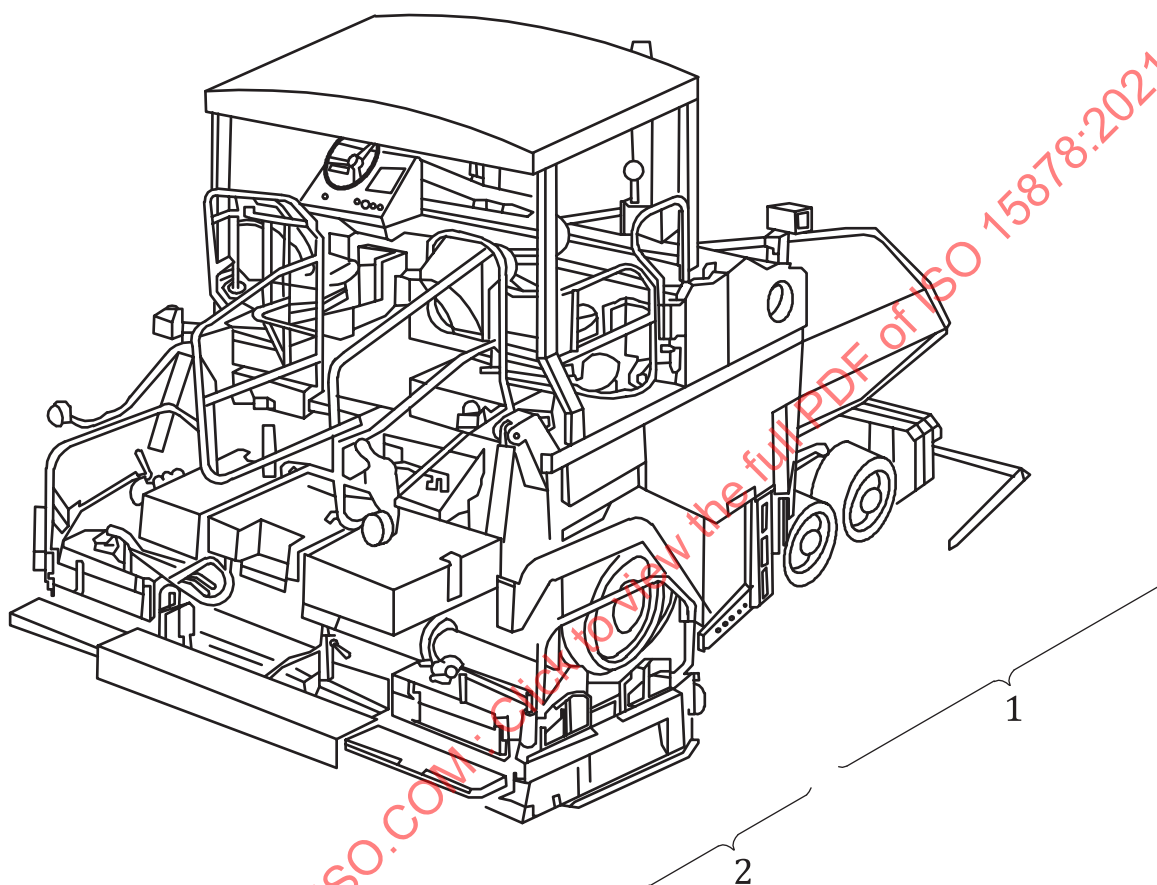
Shipping configuration shall be made with items easily and normally detached for transport and removed, and the machine configured as recommended by the manufacturer.

5.4 Material bulk density

The average paving material bulk density shall be assumed to be 1,75 t/m³.

Annex A (informative)

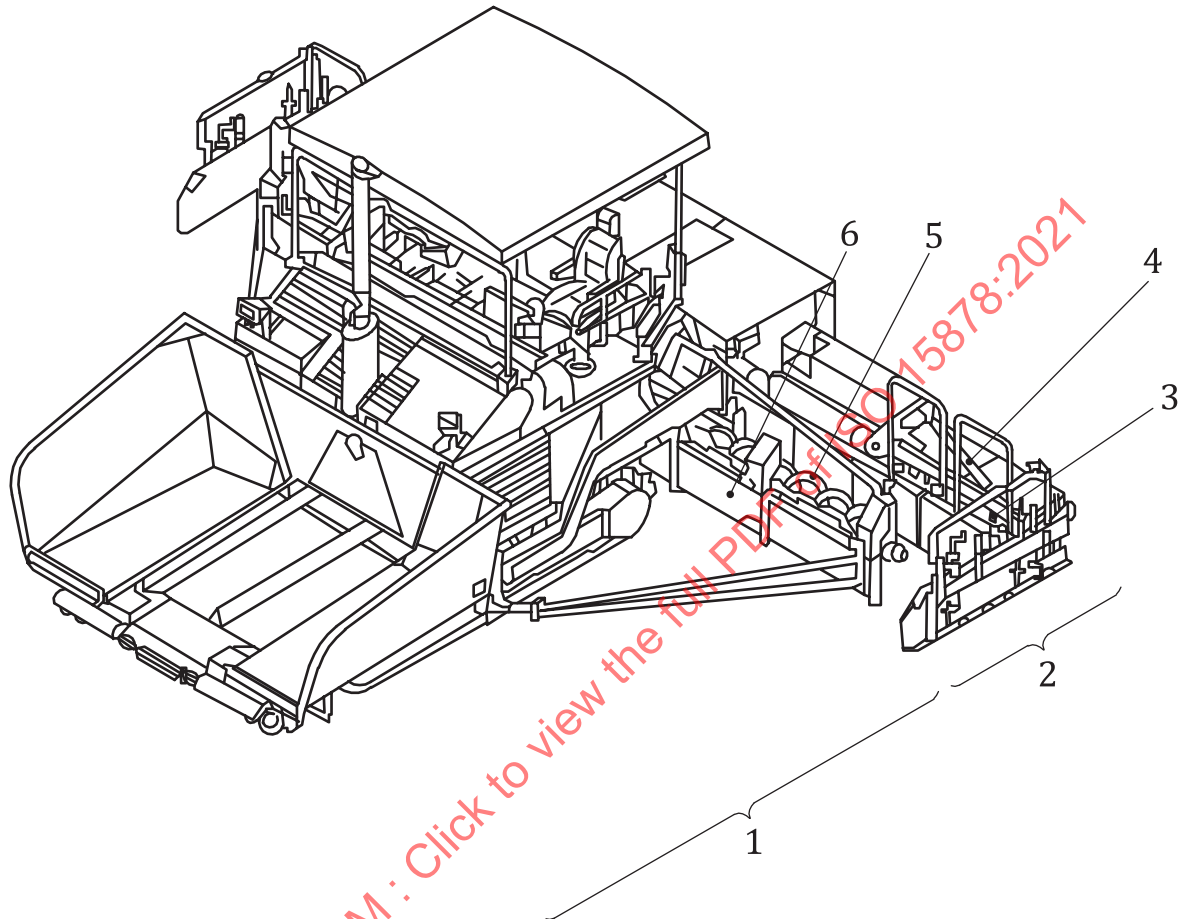
Structure and dimension characteristics of asphalt pavers — Examples



Key

- 1 tractor and hopper
- 2 screed

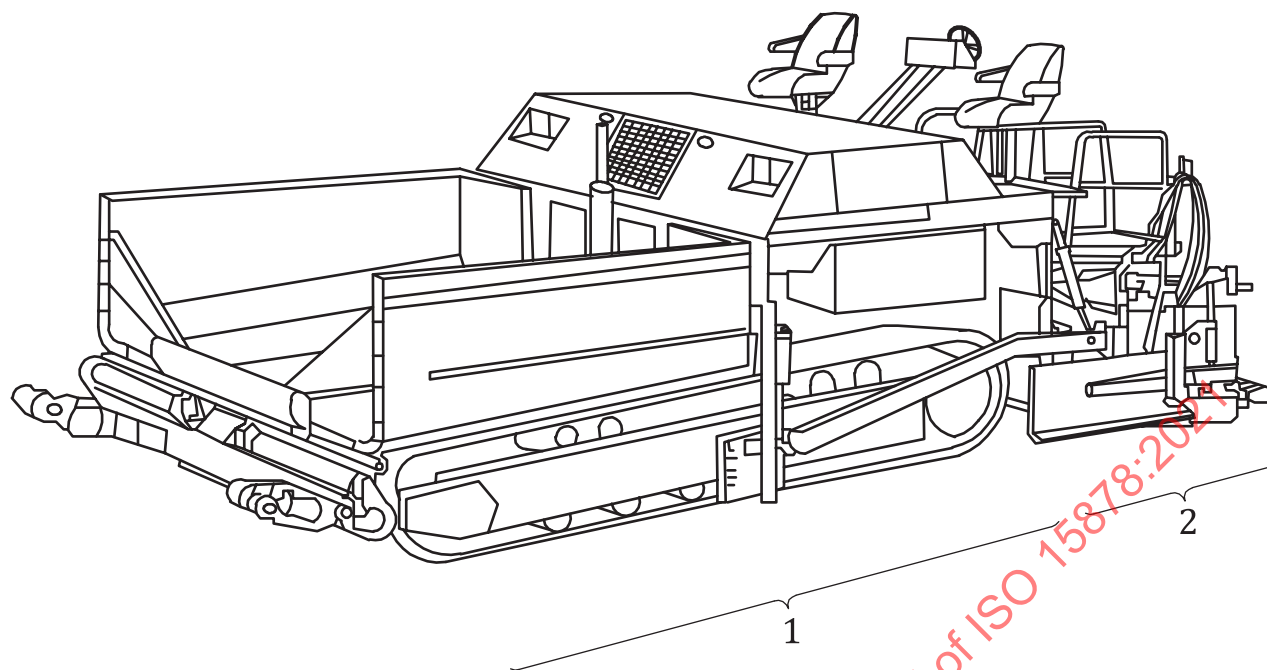
Figure A.1 — Wheeled paver-finisher



Key

- 1 tractor and hopper
- 2 screed
- 3 screed extension
- 4 bracing
- 5 spreading auger
- 6 material retaining plate

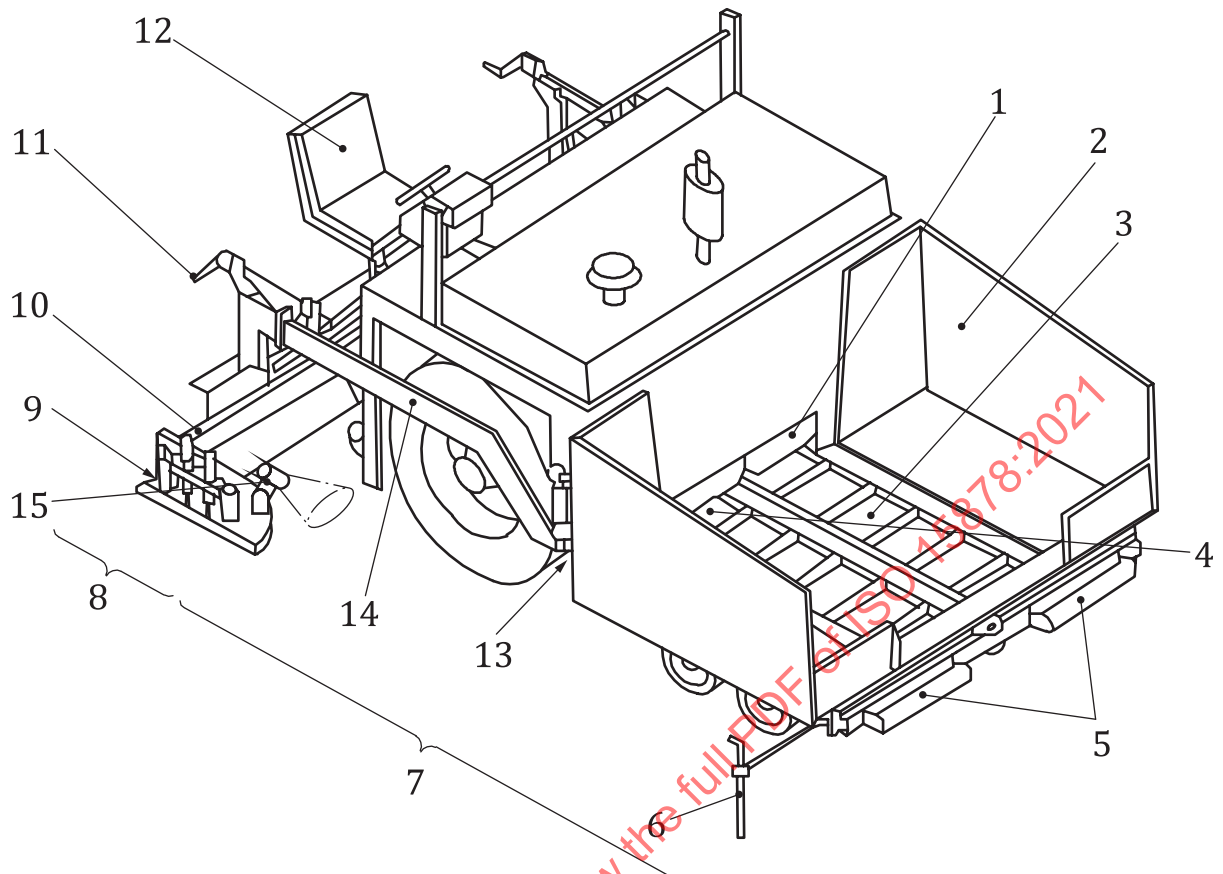
Figure A.2 — Steel crawler-mounted paver-finisher



Key

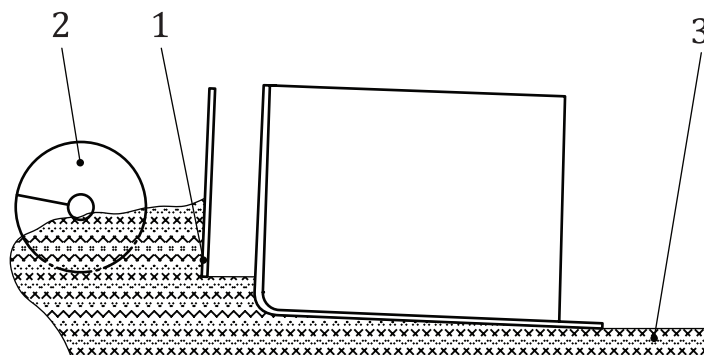
- 1 tractor and hopper
- 2 screed

Figure A.3 — Rubber crawler-mounted paver-finisher

**Key**

- | | |
|----------------------|------------------------------------|
| 1 conveyor flow gate | 9 screed end plate |
| 2 hopper | 10 adjustable width strike-off |
| 3 slat conveyor | 11 thickness control |
| 4 conveyor tunnel | 12 paver-finisher operator station |
| 5 push-rollers | 13 tow point |
| 6 steering guide | 14 tow arm |
| 7 tractor and hopper | 15 material feed sensor |
| 8 fixed width screed | |

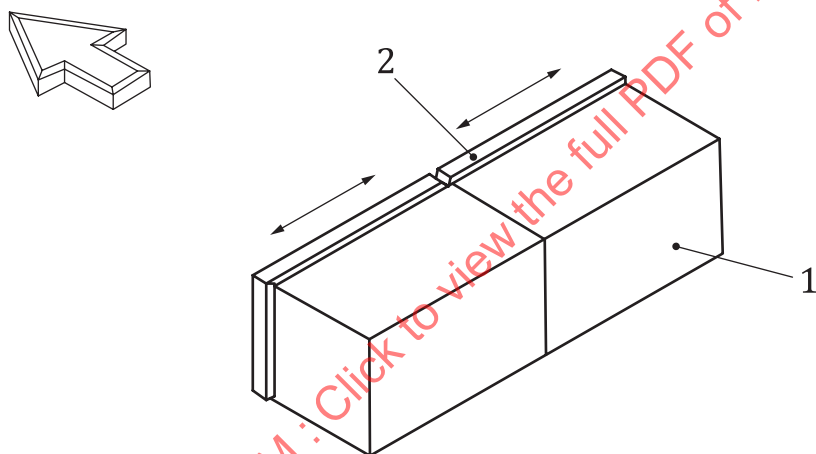
Figure A.4 — Wheeled paver-finisher with fixed width screed



Key

- 1 strike-off
- 2 spreading auger
- 3 mat

Figure A.5 — Example for illustrating strike-off

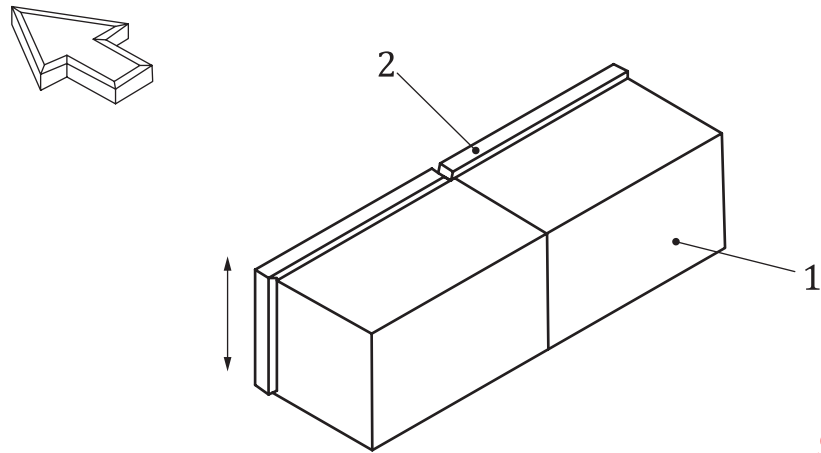


Key

- 1 fixed screed
- 2 adjustable width strike-off (mouldboard with adjustable width)

NOTE The large arrow indicates the direction of travel.

Figure A.6 — Adjustable width strike-off

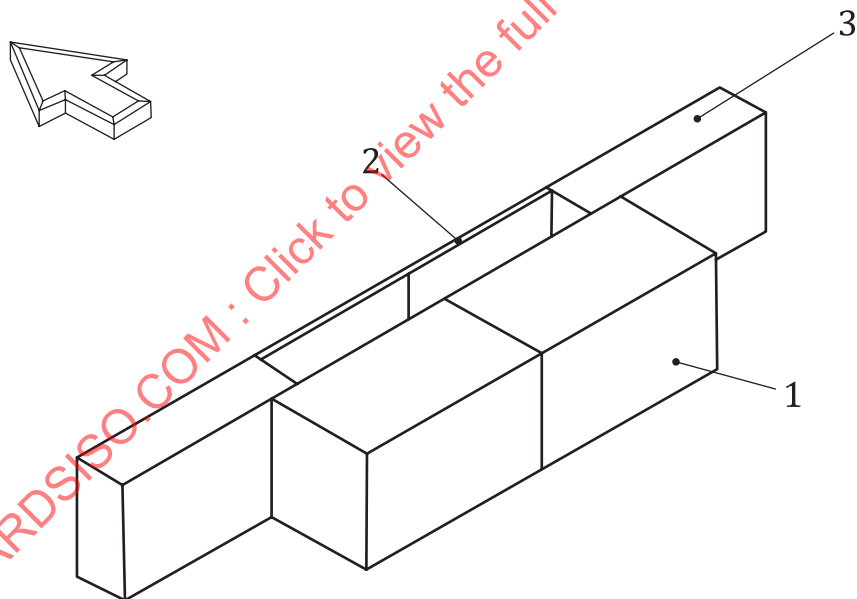


Key

- 1 screed
- 2 strike-off (mouldboard with adjustable height)

NOTE The large arrow indicates the direction of travel.

Figure A.7 — Strike-off (height-adjustable mouldboard)

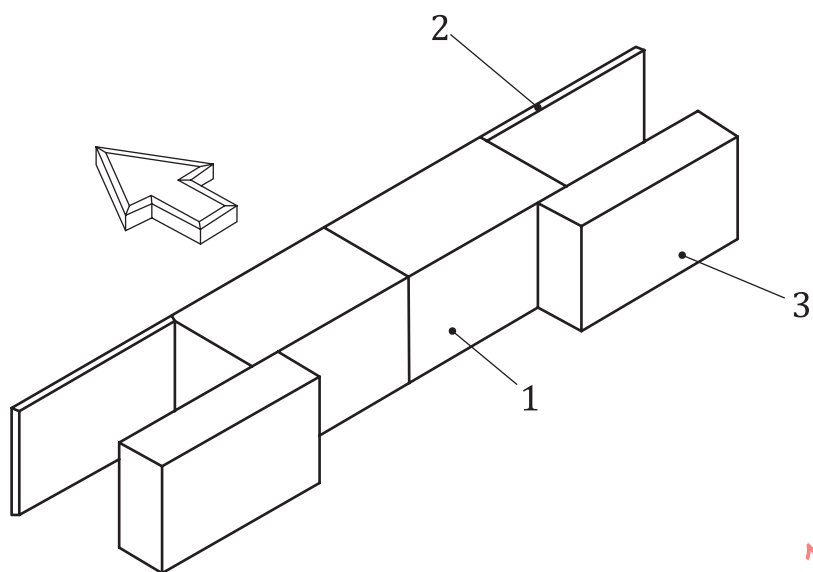


Key

- 1 screed
- 2 strike-off
- 3 front mounted extension

NOTE The large arrow indicates the direction of travel.

Figure A.8 — strike-off on front mounted extensions

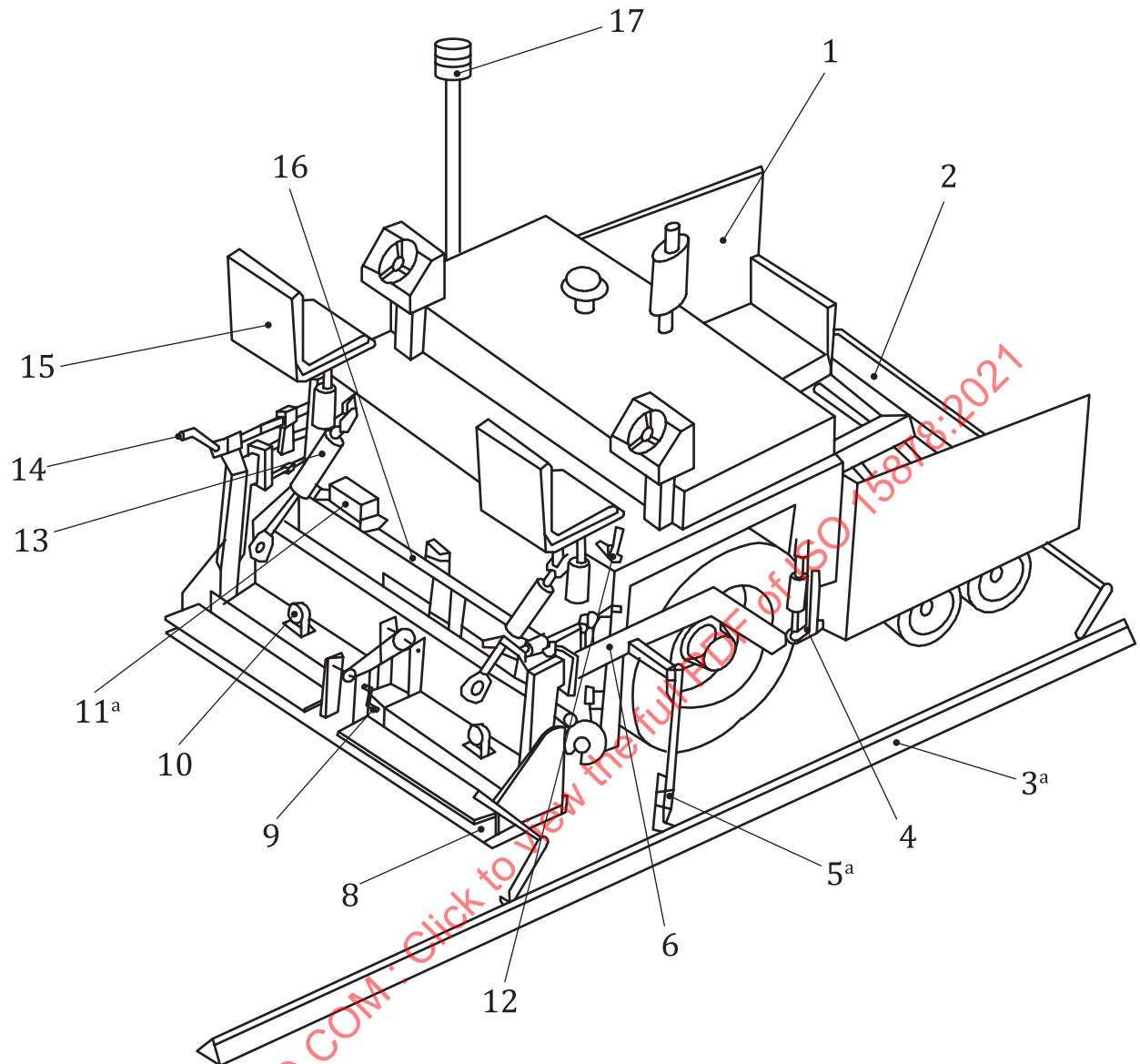


Key

- 1 screed
- 2 strike-off
- 3 rear mounted extension

NOTE The large arrow indicates the direction of travel.

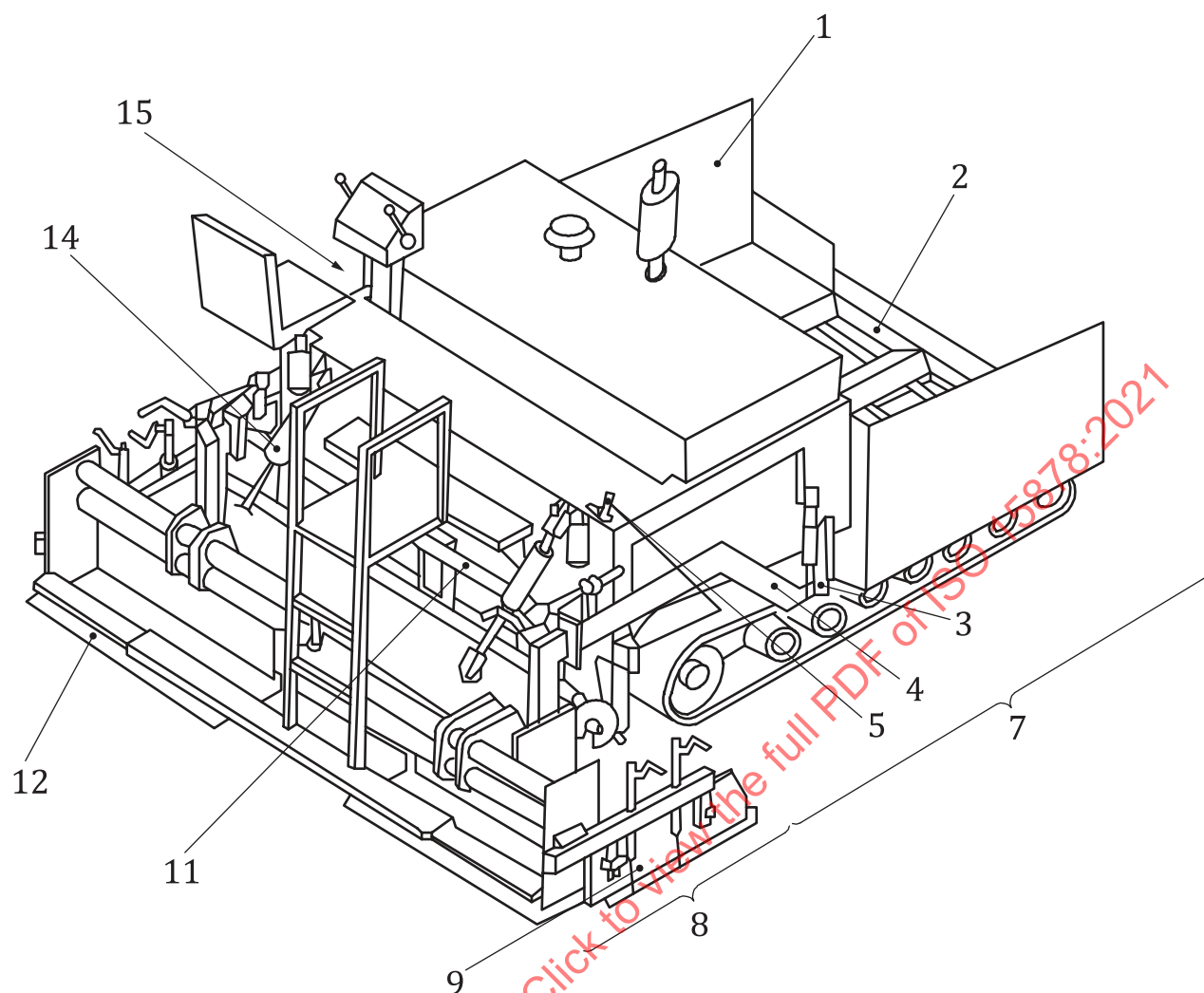
Figure A.9 — strike-off on rear mounted extensions



Key

- | | | | |
|---|---------------------------------------|----|--|
| 1 | hopper | 10 | screed heater |
| 2 | apron | 11 | slope sensor |
| 3 | mobile grade reference | 12 | screed travel lock |
| 4 | tow point | 13 | screed lift |
| 5 | grade control sensor | 14 | thickness control |
| 6 | tow arm | 15 | paver-finisher operator station |
| 8 | screed plate | 16 | slope beam |
| 9 | crown control | 17 | 3D coordinates referenced grade controller |
| a | Physical referenced grade controller. | | |

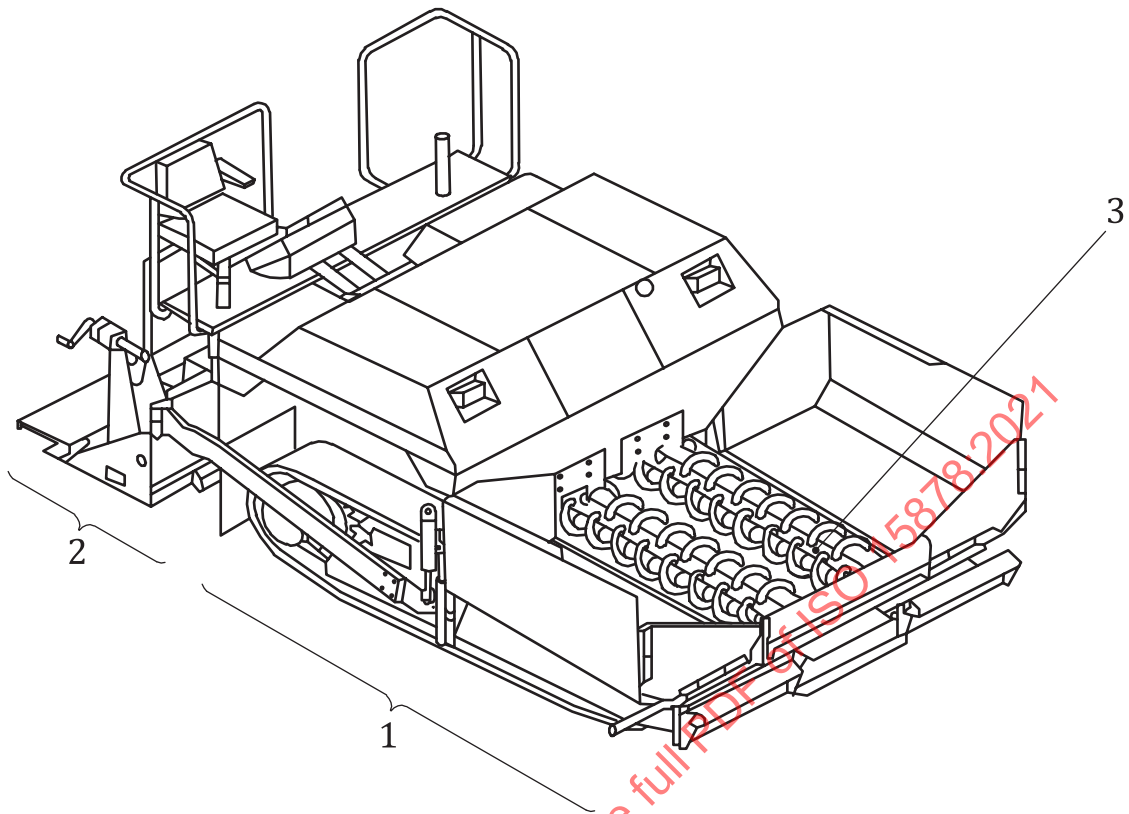
Figure A.10 — Wheeled paver-finisher with fixed width screed



Key

- | | | | |
|---|--------------------|----|---------------------------------|
| 1 | hopper | 8 | screed |
| 2 | apron | 9 | screed end plate |
| 3 | tow point | 11 | slope beam |
| 4 | tow arm | 12 | screed plate |
| 5 | screed travel lock | 14 | screed lift |
| 7 | tractor | 15 | paver-finisher operator station |

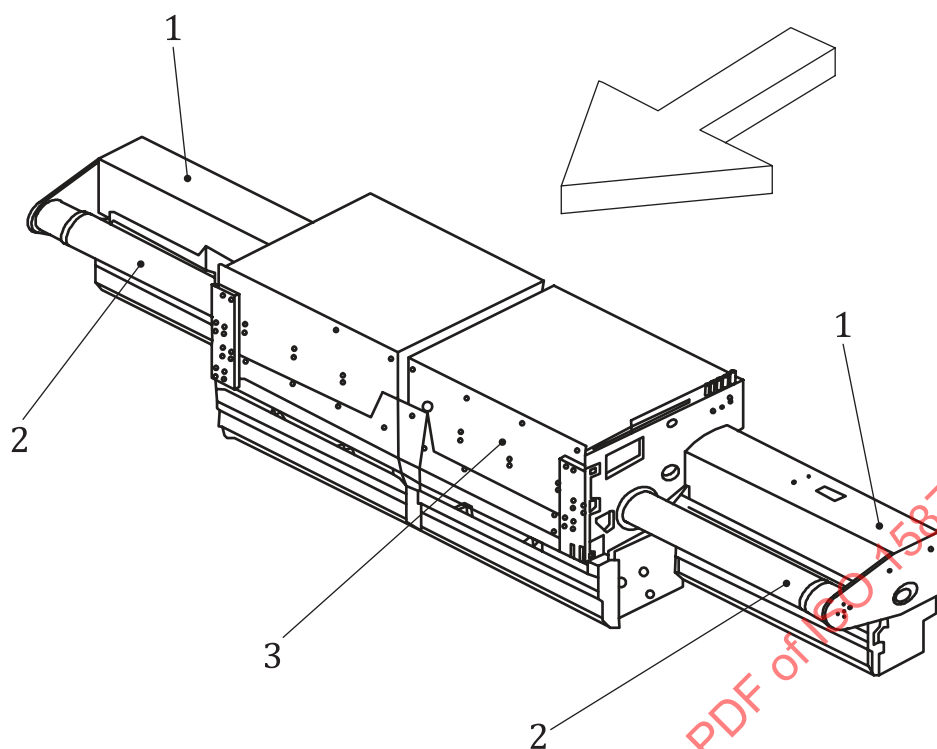
Figure A.11 — Crawler-mounted paver-finisher with variable width screed



Key

- 1 tractor and hopper
- 2 screed
- 3 screw conveyor

Figure A.12 — Crawler-mounted paver-finisher with screw conveyors

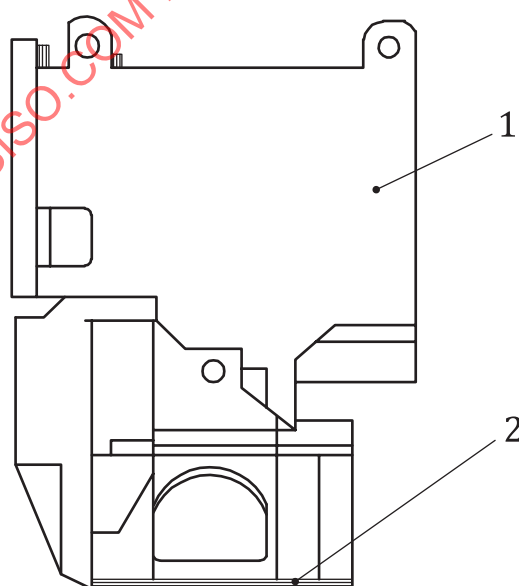


Key

- 1 rear mounted extension
- 2 hydraulic cylinder for extension
- 3 screed body

NOTE The large arrow indicates the direction of travel.

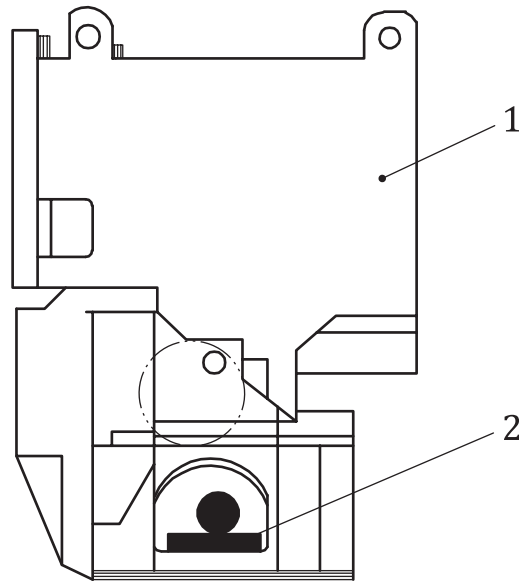
Figure A.13 — extendable screed



Key

- 1 screed body
- 2 screed plate

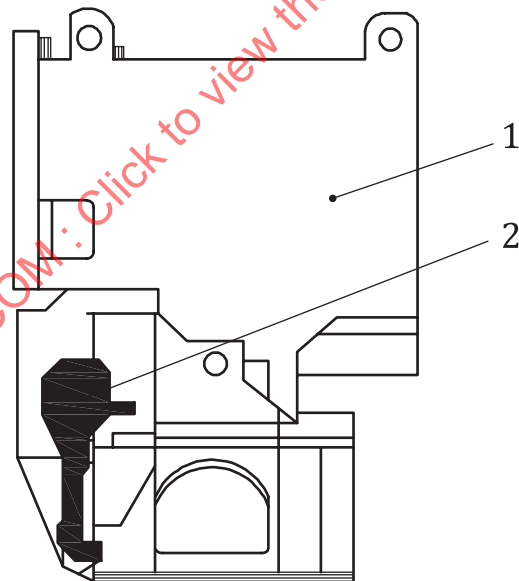
Figure A.14 — Pre-compaction screed



Key

- 1 screed body
- 2 vibrator

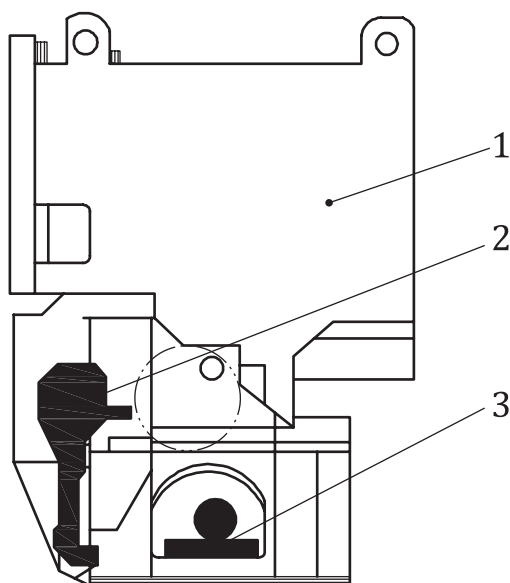
Figure A.15 — compaction screed with vibrator



Key

- 1 screed body
- 2 tamper bar

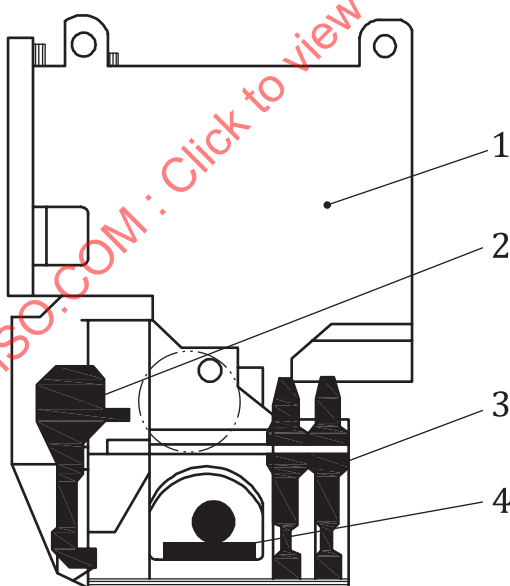
Figure A.16 — Compaction screed with tamper bar



Key

- 1 screed body
- 2 tamper bar
- 3 vibrator

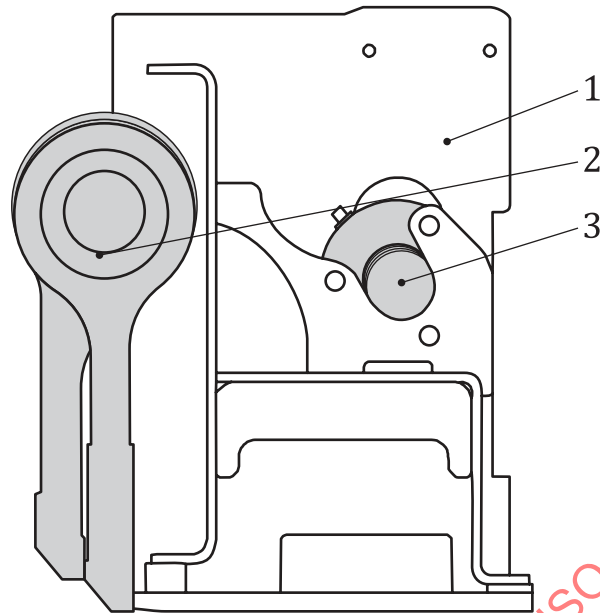
Figure A.17 — High-compaction screed (with tamper bar and vibrator)



Key

- 1 screed body
- 2 tamper bar
- 3 pressure bar
- 4 vibrator

Figure A.18 — High compaction screed (with tamper bar, vibrator and two pressure bars)

**Key**

- 1 screed body
- 2 tamper bar
- 3 vibrator

Figure A.19 — High compaction screed (with two tamper bars and vibrator)