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**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](http://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](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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](http://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](http://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](#)).



# 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)