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Mobile road construction machinery — Safety —

Part 6: Specific requirements for mobile feeders

Machines mobiles pour la construction de routes — Sécurité —

Partie 6: Prescriptions spécifiques pour alimentateurs d'enrobé

Reference number
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Contents

Page

Foreword ... **iv**
Introduction ... **v**
1 Scope ... **1**
2 Normative references ... **1**
3 Terms and definitions ... **1**
4 Safety requirements and/or protective/risk reduction measures ... **2**
4.1 General ... 2
4.1.1 Context ... 2
4.1.2 Specific relation to ISO 20500-1 ... 2
4.2 Visibility ... 3
4.2.1 General ... 3
4.2.2 Visibility performance criteria ... 3
4.2.3 Visibility performance criteria for the RB ... 3
4.3 Operator's station ... 4
4.4 Controls and indicators ... 4
4.5 Access systems to operator's station and to maintenance points ... 4
4.6 Protection ... 5
4.7 Signal devices and warning signs ... 5
4.8 Electro-magnetic compatibility (EMC) ... 5
4.9 Noise ... 5
4.10 Conveyors ... 5
5 Verification of the safety requirements and/or protective/risk reduction measures ... **5**
6 Information for use – Operator´s manual ... **6**
Annex A (normative) **Noise test code for mobile feeders** ... **7**
Annex B (informative) **Examples of mobile feeders** ... **13**
Annex C (informative) **List of significant hazards** ... **15**
Bibliography ... **18**

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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 document 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).

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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*.

A list of all parts in the ISO 20500 series can be found on the ISO website.

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.

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Introduction

This document is a type-C standard as stated in ISO 12100.

This document is of relevance, in particular, for the following stakeholder groups representing the market players with regard to machinery safety:

— machine manufacturers (small, medium and large enterprises);

— health and safety bodies (regulators, accident prevention organisations, market surveillance, etc.).

Others can be affected by the level of machinery safety achieved with the means of the document by the above-mentioned stakeholder groups:

— machine users/employers (small, medium and large enterprises);

— machine users/employees (e.g. trade unions, organisations for people with special needs);

— service providers, e.g. for maintenance (small, medium and large enterprises);

— consumers (in case of machinery intended for use by consumers).

The above-mentioned stakeholder groups have been given the possibility to participate at the drafting process of this document.

The machinery concerned and the extent to which hazards, hazardous situations or hazardous events are covered are indicated in the Scope of this document.

When requirements of this type-C standard are different from those which are stated in type-A or type-B standards, the requirements of this type-C standard take precedence over the requirements of the other standards for machines that have been designed and built according to the requirements of this type-C standard.

Mobile feeders are typically self-propelled machines used in the continuous transfer of paving materials from trucks to paver-finishers. Some mobile feeders are capable of feeding multiple paver-finishers.

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Mobile road construction machinery — Safety —

Part 6:
Specific requirements for mobile feeders

1 Scope

This document, together with ISO 20500-1:2026, deals with all significant hazards, hazardous situations and events relevant to mobile feeders when used as intended and under the conditions of misuse which are reasonably foreseeable by the manufacturer (see Annex C) associated with the whole lifetime of the machine as described in ISO 12100:2010, 5.4.

The requirements of this document are complementary to the common requirements formulated in ISO 20500-1:2026. This document does not repeat the requirements of ISO 20500-1:2026 but supplements or modifies the requirements for mobile feeders.

Lightning as a significant and relevant hazard is not covered in this document.

This document is not applicable to mobile feeders manufactured before the date of its publication.

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 3744:2025, *Acoustics — Determination of sound power levels of noise sources using sound pressure — Engineering methods for an essentially free field over a reflecting plane*

ISO 11201:2010, *Acoustics — Noise emitted by machinery and equipment — Determination of emission sound pressure levels at a work station and at other specified positions in an essentially free field over a reflecting plane with negligible environmental corrections*

ISO 12100:2010, *Safety of machinery — General principles for design — Risk assessment and risk reduction*

ISO 20500-12026, *Mobile road construction machinery — Safety — Part 1: Common requirements*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 12100:2010, ISO 20500-1:2026 and the following apply.

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

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

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3.1
mobile feeder
self-propelled machine intended to transfer paving material from a truck or a windrow to a paver-finisher for continuous paving without physical contact of mobile feeder and paver

Note 1 to entry: Mobile feeders can be either rubber-tyred (see Figure B.2) or crawler-mounted (see Figure B.1).

3.2
windrow elevator
machine equipped with a *windrow material reception* (3.3) and a conveyor intended to transfer paving material into the hopper of a paver-finisher or a *hopper insert* (3.7)

Note 1 to entry: It can be either self-propelled or rigidly fixed as an interchangeable equipment to a paver-finisher equipped with a windrow material reception and a conveyor.

Note 2 to entry: An example can be found in Figure B.3

3.3
windrow material reception
device installed on a *windrow elevator* (3.2) or *mobile feeder* (3.1) intended to receive paving material laying on the surface as a windrow and to guide it onto a conveyor

3.4
internal storage
device installed on a *mobile feeder* (3.1) intended to enlarge the storage capacity of the combination of mobile feeder and paver-finisher

3.5
mixing unit
device installed on the lower side of a *hopper insert* (3.7) or at the beginning of the *discharge conveyor* (3.6) of a *mobile feeder* (3.1) or *windrow elevator* (3.2) intended to break up and mix chunky portions of paving material

3.6
discharge conveyor
device intended to transfer paving material from the *mobile feeder* (3.1) or *windrow elevator* (3.2) to the paver-finisher

Note 1 to entry: This device can be rigid or slewing type.

3.7
hopper insert
device to increase hopper capacity

[SOURCE: ISO 15878:2021, 3.28]

4 Safety requirements and/or protective/risk reduction measures

4.1 General

4.1.1 Context

Mobile feeders shall conform to the safety requirements and/or protective/risk reduction measures of this clause. In addition, the machines shall be designed according to the principles of ISO 12100:2010 for relevant but not significant hazards which are not dealt with by this document.

4.1.2 Specific relation to ISO 20500-1

Mobile feeders shall conform to the requirements of ISO 20500-1:2026, as far as not modified or replaced by the requirements of this document.

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