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Mobile road construction machinery — Safety —

Part 2: Specific requirements for road-milling machines

Machines mobiles pour la construction de routes — Sécurité —

Partie 2: Prescriptions spécifiques pour fraiseuses routières

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Foreword

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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.

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, organizations 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 road construction machinery — Safety —

Part 2: Specific requirements for road-milling machines

1 Scope

This document, together with ISO 20500-1:2026, deals with all significant hazards, hazardous situations and events relevant to road-milling machines when used as intended and under the conditions of misuse which are reasonably foreseeable by the manufacturer (see Annex D) 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 road-milling machines.

The following significant and relevant hazards are not covered in this document:

— lightning;

— vibration.

NOTE A vibration test code is under preparation.

This document is not applicable to road-milling machines 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 15645:2018, *Road construction and maintenance equipment — Road milling machinery — Terminology and commercial specifications*

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

ISO 29042-4:2009, *Safety of machinery — Evaluation of the emission of airborne hazardous substances — Part 4: Tracer method for the measurement of the capture efficiency of an exhaust system*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 12100:2010, ISO 15645:2018, ISO 20500-1:2026 and the following apply.