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Road surface treatment machines - Safety requirements

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 03/16

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English Version

Road surface treatment machines - Safety requirements

Machines pour le traitement des surfaces routières -Prescriptions de sécurité Maschinen für die Straßenoberflächenbehandlung -Sicherheitsanforderungen

This European Standard was approved by CEN on 19 September 2015.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

European foreword		
Introduction		
1	Scope	6
2	Normative references	7
3	Terms and definitions	7
4	List of significant hazards	9
5	Safety requirements and/or measures	
5.1	General	
5.2	General and common requirements	11
5.2.1	Hydraulic systems	11
5.2.2	Fire protection	11
5.2.3	Protective measures and devices	11
5.2.4	Exhaust piping	12
5.2.5	Demountable equipment	12
5.2.6	Supporting equipment	
5.2.7	Attachment fittings/trailers	
5.2.8	Actuators	
5.2.9	Self-propelled machines	
	Operator's platforms and working positions	
	Skid protection	
	Access	
	Heating systems for road building materials	
	Starting	
	Controls	
	Machines in lifting application	
	Pipes and hoses	
	Noise	
5.3	Specific requirements for binder sprayers [or sprayers]	
5.3.1	Pipes and hoses	
5.3.2	Access	17
5.3.3	Filler openings	
5.3.4	Heating systems for binder sprayers [or sprayers] with tanks	17
5.3.5	Limiting devices	
5.3.6	Shutoff valves	
5.3.7	Fire protection	
5.3.8	Tank breathing	
5.3.9	Transport safeguard	
5.4	Specific requirements for chipping spreaders [or spreaders]	
5.4.1	Operator's platforms	
5.4.2	Communication links	
5. 4 .2	Specific requirements for binder sprayer chipping spreader [or sprayer spreader]	
5.6	Specific requirements for mastic asphalt mixers and joint sealers	
5.6.1	Filler openings	
5.6.1 5.6.2		
	Lighting	
5.6.3	Discharge opening	17

5.6.4	Reverse rotation of the agitator shaft (asphalt mixers only)	
5.6.5	Apertures over discharge augers and agitator shafts	
5.6.6 5.7	Access to burner chamber Specific requirements for micro-surfacing machines/slurry machines	
5.7.1	Service doors for mixer	
5.7.2	Reverse rotation of mixer shaft	
5.7.3	Operator's platforms	
6	Verification	20
7	Information for use	20
7.1	General	
7.2	Operating and maintenance instructions	20
7.3	Spare parts list	
7.4	Specific instructions for tank binder sprayers [or sprayers] with spray bars	21
8	Marking	
Annex	A (informative) Truck attachment plate	22
	B (informative) Terminology	
Annex	C (informative) Examples of technical measures to reduce noise	26
Annex	D (normative) Noise test code for the declaration of noise emission values (grade 2 of accuracy)	27
D.1	Scope	27
D.2	Determination of the A-weighted emission sound pressure level at workstation(s)	28
D.3	Determination of the A-weighted sound power level	28
D.3.1	General	28
D.3.2	Type 1 machines	28
D.3.3	Type 2 machines	29
D.3.4	Type 3 machines	30
D.4	Installation and assembly conditions	31
D.5	Operating conditions	32
D.6	Measurement uncertainties	33
D.7	Information to be recorded and reported	34
D.8	Declaration and verification of noise emission values	34
Annex	ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC	37
Biblio	graphy	38

European foreword

This document (EN 13020:2015) has been prepared by Technical Committee CEN/TC 151 "Construction equipment and building material machines - Safety", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2016, and conflicting national standards shall be withdrawn at the latest by May 2016.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 13020:2004+A1:2010.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

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

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

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

1 Scope

This European Standard applies to road surface treatment machines, which are in particular:

- binder sprayers [or sprayers];
- chipping spreaders [or spreaders];
- machines for surface repairs (binder sprayer chipping spreader [or sprayer spreader]);
- mastics asphalt mixers;
- joint sealer;
- micro-surfacing machines/slurry machines;
- cold asphalt laying / micro-asphalt-paving machines

(see also Clause 3).

Road surface treatment machines can be mounted on a carrier vehicle, trailer or articulated truck, combining to form an integral unit. It is also possible to mount a road surface treatment machine on its own chassis construction and propulsion system (self-propelled or pedestrian-controlled). In all cases the machine and chassis form an integral unit.

Directives and standards for the vehicular truck chassis aspects, termed 'carrier vehicle' in this document, would be those relative to that equipment, even where specific modifications have been made to realize the road surface treatment application. The use in public road traffic is governed by the national regulations.

This European Standard deals with all significant hazards identified through a risk assessment relevant to road surface treatment machines when they are used as intended and under the conditions foreseen by the manufacturer (see Clause 4). This European Standard does not deal with significant hazards associated with pressurized tanks, and EMC. This European Standard specifies the appropriate technical measures to eliminate or reduce risks arising from the significant hazards associated with machine operation, setting and adjustments, load discharge and routine maintenance.

This European Standard does not include requirements for the carrier vehicles or special constructions. These are covered in directives related to the construction of vehicles. Demountable bodywork systems (e.g. demountable containers) are specified in other standards. Vibrations are not dealt with in the standard, because for all machines of this family vibration is not a relevant hazard due to the low working speed and special working conditions (e.g. flat surface).

This European Standard does not deal with the risks associated with the operation of the machines in potentially explosive atmospheres.

This European Standard does not include requirements of the 94/55/EC Directive related to transport of dangerous goods by road but contains additional specifications in link with these existing requirements.

This European Standard applies to machines which are manufactured after the date of approval of this standard by CEN.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 500-1:2006+A1:2009, Mobile road construction machinery — Safety — Part 1: Common requirements

EN 12999:2011+A1:2012, Cranes — Loader cranes

EN ISO 2860:2008, Earth-moving machinery — Minimum access dimensions (ISO 2860:1992)

EN ISO 2867:2011, Earth-moving machinery — Access systems (ISO 2867:2011)

EN ISO 3457:2008, Earth-moving machinery — Guards — Definitions and requirements (ISO 3457:2003)

EN ISO 3744:2010, Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Engineering methods for an essentially free field over a reflecting plane (ISO 3744:2010)

EN ISO 4413:2010, Hydraulic fluid power — General rules and safety requirements for systems and their components (ISO 4413:2010)

EN ISO 4871:2009, Acoustics — Declaration and verification of noise emission values of machinery and equipment (ISO 4871:1996)

EN 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 11201:2010)

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

EN ISO 13732-1:2008, Ergonomics of the thermal environment — Methods for the assessment of human responses to contact with surfaces — Part 1: Hot surfaces (ISO 13732-1:2006)

EN ISO 13857:2008, Safety of machinery — Safety distances to prevent hazard zones being reached by upper and lower limbs (ISO 13857:2008)

EN ISO 14119:2013, Safety of machinery — Interlocking devices associated with guards — Principles for design and selection (ISO 14119:2013)

ISO 6750:2005, Earth-moving machinery — Operator's manual — Content and format

koniec náhľadu – text ďalej pokračuje v platenej verzii STN