

SLOVENSKI STANDARD SIST EN 12629-5-4:2004

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Stroji za izdelavo gradbenih proizvodov iz betona in apnenega peščenca - Varnost - 5-4. del: Stroji za nanašanje premazov na betonske cevi

Machines for the manufacture of constructional products from concrete and calciumsilicate - Safety - Part 5-4: Concrete pipe coating machines

Maschinen für die Herstellung von Bauprodukten aus Beton und Kalksandsteinmassen -Sicherheit - Teil 5-4: Maschinen zum Beschichten von Betonrohren /

Machines pour la fabrication de produits de construction en béton et silico-calcaire -Sécurité - Partie 5-4: Machines de revetement des tuyaux en béton

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en

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English version

Machines for the manufacture of constructional products from concrete and calcium-silicate - Safety - Part 5-4: Concrete pipe coating machines

Machines pour la fabrication de produits de construction en béton et silico-calcaire - Sécurité - Partie 5-4: Machines de revêtement des tuyaux en béton Maschinen für die Herstellung von Bauprodukten aus Beton und Kalksandsteinmassen - Sicherheit - Teil 5-4: Maschinen zum Beschichten von Betonrohren

This European Standard was approved by CEN on 3 November 2003.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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

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Foreword

This document (EN 12629-5-4:2003) 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 June 2004, and conflicting national standards shall be withdrawn at the latest by June 2004.

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.

The series "Machines for the manufacture of constructional products from concrete and calcium - silicate - Safety" consists of following parts :

- Part 1: Common requirements
- Part 2: Block making machines
- Part 3 : Slide and turntable machines
- STANDARD PREVIEW (standards.iteh.ai)
- Part 4 : Concrete rooftile making machines
- Part 5.1 : Concrete pipe machines manufacturing in the vertical axis.
- Part 5.2 : Concrete pipe machines manufacturing in the horizontal axis
- Part 5.3 : Pipe prestressing machines
- Part 5.4 : Concrete pipe coating machines
- Part 6 : Stationary and mobile equipment for the manufacture of precast reinforced products
- Part 7: Stationary and mobile equipment for the benched manufacture of prestressed products
- Part 8: Machines and equipment for the manufacture of constructional products from calcium silicate (and concrete).

Annex A is informative and contains "Definitions of terms", annex B is informative and contains "Hazard zones".

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

EN 12629-5-4:2003 (E)

Introduction

This European Standard is a Type C-standard as stated in EN 1070.

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

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.

Reference to pertinent standards of this kind is made were such standards are applicable and so far necessary.

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1 Scope

1.1 This European Standard applies to concrete pipe coating machines.

1.2 This European Standard deals with the significant hazards listed in clause 4, when used as intended under the conditions foreseen by the manufacturer. This European Standard specifies the appropriate technical measures to eliminate or reduce risks arising from the significant hazards, except noise hazards.

NOTE Amendment is under preparation to deal with noise, in particular for measures to reduce noise at source and a noise test code including noise declaration.

This standard establishes safety requirements and/or methods of protection which applies to these machines.

1.3 This European standard applies to the concrete pipe coating making machines which may form an integral part of a pipe making process plant.

1.4 See 1.4 of EN 12629-1:2000.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendments). For undated references the latest edition of the publication referred to applies (including amendments). ds.iteh.ai)

EN 1050:1996, Safety of machinery - Principle for risk assessment. SIST EN 12629-5-4:2004

EN 1070:1998, Safety of machinery and Termihology standards/sist/e6a1b712-0a32-4d98-a32a-905f6f10a8ef/sist-en-12629-5-4-2004

EN 12629-1:2000, Machines for the manufacture of constructional products from concrete and calcium-silicate – Safety – Part 1: Common requirements.

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN 1070:1998 apply. Other, more general, terms and definitions are contained in EN 12629-1 "Common requirements".

3.1

coating machine

machine used to apply a protective coating of concrete or mortar over the high tensile wire reinforcement wound around the concrete pipe.

3.2

coating machine by deposit by vibration

machine used to apply a protective coating of **concrete** by deposit by vibration over the prestressed wire wound around the concrete pipe in horizontal position.

3.3

coating machine by impact

machine used to apply a protective coating of **mortar** by deposit by impact over the prestressed wire wound around the concrete pipe in horizontal or vertical position.

4 List of significant hazards

This clause contains all hazards, as far as they are dealt with in this European Standard, identified by risk assessment significant for this type of machinery and which require action to eliminate or reduce risk.

Mechanical hazards - see informative annex B. The annex illustrates examples of common machine types.

Table 1 — Coating machines by deposit by vibration - List of hazards and hazardous situations

List of hazards as per annex A of EN 1050:1996	List of hazards and hazardous situations	HAZARD ZONES (See Informative annex B, Figure B.1)
1 Mechanical hazards		
1.2 Shearing hazards	 Between the rails and the wheels of the pipe transport cart 	1
1.6 Impact hazards	 With concrete feeder while moving 	5
1.8 Friction or abrasion hazards	 In contact with the rotating pipe during coating operation 	2
4. Noise hazards	-e From vibrators set up on the hopper to compact the coating concrete	6
19 Slip, trip and fall hazards	 From the gangway 1° <u>SIST EN 12629 5 42001</u> stand: From the access fladder to the gangway 2°32-4d98-a32: 905f6f10a8ef/sist-en-12629-5-4-2004 From the gangway 2° 	^{⊫-} 3, 4, 5

List of hazards and hazardous situations		List of hazards and hazardous situations	HAZARD ZONES (See Informative annex B, Figure B.2)
1 Mechanical hazards			
1.1 Crushing hazards	_	Between support and ground	1
1.5 Drawing-in and trapping hazards	-	From rotating turn-table and concrete pipe during coating operation	2
1.9 High pressure fluid injection or ejection hazards	_	From penetrated compressed mortar	3
4 Noise	-	From the mortar spraying device	5
19 Slip, trip and fall hazards	-	From the access-platform	4
	-	During working in the operating area	

Table 2 — Coating machines by deposit by impact- List of hazards and hazardous situations

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5 Safety requirements and/or(measuresrds.iteh.ai)

In accordance with clause 5 of EN 12629-1:2000, the hazard zones marked 1 to 6 at annexes A and B of this standard, are to be guarded as described in the following tables:004

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Table 3 — Requirements for concrete coating machines by deposit by vibration

Hazards Zones	Hazards	Reference Clause 4 (Table 1)	Requirements and measures. See clause 5 of EN 12629-1:2000	
1	Shearing	1.2	5.2	
2	Friction or abrasion	1.8	5.2	
3	Slip, trip and fall	19	5.2	
4				
5	Impact	1.6	5.2	
	Slip, trip and fall	19		
6	Noise	4	5.7	