3:500

Betoonist ja kaltsiumsilikaadist konstruktsioonielementide valmistamiseks mõeldud masinad. Ohutus. Osa 2: Plokivalmistamise masinad KONSOLIDEERITUD TEKS

Machines for the manufacture of constructional products from concrete and calcium-silicate - Safety - Part 2: Block making machines CONSOLIDATED TEXT



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 12629- 2:2003+A1:2010 sisaldab Euroopa standardi EN 12629-2:2002+A1:2010 ingliskeelset teksti.	This Estonian standard EVS-EN 12629- 2:2003+A1:2010 consists of the English text of the European standard EN 12629- 2:2002+A1:2010.		
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EUROPEAN STANDARD NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 12629-2:2002+A1

September 2010

ICS 91.220

Supersedes EN 12629-2:2002

English Version

Machines for the manufacture of constructional products from concrete and calcium-silicate - Safety - Part 2: Block making machines

Machines pour la fabrication de produits de construction en béton et silico-calcaire - Sécurité - Partie 2: Machines à blocs

Maschinen für die Herstellung von Bauprodukten aus Beton und Kalksandsteinmassen - Sicherheit - Teil 2: Steinformmaschinen

This European Standard was approved by CEN on 1 November 2002 and includes Amendment 1 approved by CEN on 5 August 2010.

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

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Contents

		age
	ord	
Introdu	uction	
1	Scope	4
2	Normative references	5
3	Terms and definitions	5
4 4.1 4.2 4.3	List of significant hazards Mechanical hazards (see informative annex B) Electrical hazards Hazards generated by vibration	6 8
5	A Safety requirements and/or protective measures (A	8
6	A Verification of safety requirements and/or protective measures (A	
7	Information for use	
8	Marking	10
Annex	A (informative) Mechanical hazards zones for a common block making machine and requirements and measures	11
Annex	B (informative) Terminology of a common block making machine	12
	ZA (informative) A Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC A	13
Bibliog	jraphy	14
	graphy	
2		

Foreword

This document (EN 12629-2:2002+A1:2010) 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 March 2011, and conflicting national standards shall be withdrawn at the latest by March 2011.

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 includes Amendment 1, approved by CEN on 2010-08-05.

This document supersedes EN 12629-2:2002.

The start and finish of text introduced or altered by amendment is indicated in the text by tags \mathbb{A} \mathbb{A} .

A) This European Standard 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.

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

Part 1: Common requirements

- Part 2: Block making machines
- Part 3: Slide and turntable machines
- Part 4: Concrete roof tile making machines
- Part 5.1: Pipe making machines manufacturing in the vertical axis
- Part 5.2: Pipe making 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 long line manufacture of prestressed products
- Part 8: Machines and equipment for the manufacture of constructional products from calcium silicate (and concrete) (A)

A1 deleted text (A1

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Introduction

A This European Standard is a Type C-standard as stated in EN ISO 12100.

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

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

This document specifies the additional requirements to and/or the deviations from EN 12629-1:2000+A1:2010 specific for the block making machines as described in 1.1.

With the aim of clarifying the intentions of the document it should be noticed that the following assumptions were made when producing it:

— specific conditions of use or environmental conditions out of the scope of the document shall be the subject of negotiations between the manufacturer and the user/owner,

- the equipment will only be used by competent and designated persons,
- the place of use/installation is adequately lit,
- all operations are carried out by specially trained operators. (A)

1 Scope

1.1 A This part of EN 12629, taken together with EN 12629-1:2000+A1:2010, applies to machines for the manufacture of blocks, kerbs, paving stones and similar concrete products.

EN 12629-1:2000+A1:2010 specifies general requirements applicable to machines for the manufacture of constructional products from concrete and calcium–silicate.

This document specifies the additional requirements to and/or the deviations from EN 12629-1:2000+A1:2010 specific to the machines it covers.

1.2 Any This European Standard deals with all significant hazards pertinent to these machines, when they are used as intended and under conditions of misuse which are reasonably foreseeable by the manufacturer (see Clause 4). This European Standard specifies the appropriate technical measures to eliminate or reduce risks arising from the significant hazards.

1.3 This European Standard applies to the machines from the point at which the mixture enters the machine (see point 1-2 of annex B) and the point where the pallet boards are brought to the assembly (see point 3 of annex B) until the point where the green products are removed from the machine assembly to the curing system (see point 4 of annex B).

 $|A_1\rangle$ deleted text $\langle A_1 \rangle$

A 1.4 (A) This European Standard deals with the hazards (A) deleted text (A) listed in clause 4 which can arise during the operation and maintenance, including the interfaces, of the block making machines, when carried out in accordance with the specifications given by the manufacturer or his authorised representative.

NOTE 1 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.

NOTE 2 Interfaces between the block making machines and others of the installation are dealt with in A EN 12629-1:2000+A1:2010 (7.2) (A).

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

 A_1

1.5 This document is not applicable to block making machines, which are manufactured before the date of publication of this document by CEN. (A)

2 Normative references

A) The following referenced documents are indispensable for the application 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.

A1 deleted text (A1

A) EN 12629-1:2000+A1:2010 (A), Machines for the manufacture of constructional products from concrete and calcium-silicate — Safety — Part 1: Common requirements

EN ISO 12100-1:2003, Safety of machinery — Basic concepts, general principles for design — Part 1: Basic terminology, methodology (ISO 12100-1:2003)

EN ISO 12100-1:2003, Safety of machinery — Basic concepts, general principles for design — Part 2: Technical principles (ISO 12100-2:2003) (A)

3 Terms and definitions

A) For the purposes of this document, the terms and definitions given in EN ISO 12100-1:2003, EN 12629-1:2000+A1:2010 and the following apply.

NOTE See also annex B for terminology of a typical block making machine.

3.1

drawing box

container having the shape of a box with an open or movable bottom. The drawing box fills the mould with the mixture

3.2

drawing box grid

machine element which is placed at the bottom of the drawing box. It consists of bars specially designed so as to assist a uniform supply of fresh concrete into the mould. The grid can be loose, fixed or movable with respect to the drawing box

3.3

feed hopper

device that contains the mixture which is transported to the drawing box by a discharge gate or a dosing belt