## საქართველოს სტანდარტი

მანქანები და მოწყობილობები ფურცვლოვანი მინის წარმოების, დამუშავებისა და გადამუშავებისათვის-უსაფრთხოების მოთხოვნებინაწილი 4: დახრილი მაგიდები

> საქართველოს სტანდარტებისა და მეტროლოგიის ეროვნული სააგენტო თბილისი

### სსტ ენ 13035-4:2003+A1:2009/2016

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- 1 დამტკიცებულია და შემოღებულია სამოქმედოდ საქართველოს სტანდარტებისა და მეტროლოგიის ეროვნული სააგენტოს 2016 წლის 1 აპრილის  $\mathbb{N}^2$  26 და 2016 წლის 1 თებერვლის  $\mathbb{N}^2$  7 განკარგულებებით
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### 3 პირველად

**4 რეგისტრირებულია** საქართველოს სტანდარტებისა და მეტროლოგიის ეროვნული სააგენტოს რეესტრში: 2016 წლის 1 აპრილი №268-1.3-8555

## EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

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#### **English Version**

# Machines and plants for the manufacture, treatment and processing of flat glass - Safety requirements - Part 4: Tilting tables

Machines et installations pour la production, le façonnage et la transformation du verre plat - Prescriptions de sécurité - Partie 4: Tables basculantes

Maschinen und Anlagen für die Herstellung, Be- und Verarbeitung von Flachglas - Sicherheitsanforderungen - Teil 4: Kipptische

This European Standard was approved by CEN on 23 May 2003 and includes Amendment 1 approved by CEN on 8 November 2009.

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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 Management Centre has the same status as the official versions.

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### **Foreword**

This document (EN 13035-4:2003+A1:2009) 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of an identical text or by endorsement, at the latest by June 2010, and conflicting national standards shall be withdrawn at the latest by June 2010.

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 2009-11-08.

This document supersedes EN 13035-4:2003.

The start and finish of text introduced or altered by amendment is indicated in the text by tags [A].

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 Annexes ZA and ZB, which are integral parts of this document.

Annexes A to E are normative. (41

This document is one of a series concerning machinery for the treatment and processing of flat glass.

This document includes a Bibliography.

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, 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.

### 0 Introduction

This document is a type-C standard as stated in [A] EN ISO 12100-1 [A].

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

- **1.1** This standard contains the requirements for safety for the design and installation of tilting tables, where the flat glass is brought from the horizontal almost to the vertical position or vice versa by lying on or supported at the lower edge leaning against a supporting surface.
- **1.2** A) This standard deals with all significant hazards, hazardous situations and events relevant to tilting tables for flat glass, when they are used as intended and under the conditions of misuse which are reasonably foreseeable by the manufacturer (see Clause 4). This standard specifies the appropriate technical measures to eliminate or reduce risks arising from the significant hazards during commissioning, operation and maintenance. Noise is not a significant hazard for this type of machines. (A)
- **1.3** This standard is not applicable to tilting tables where all movements are done by human power.
- 1.4 This standard is not applicable to additional equipment, e.g. for cutting (see EN 13035-3 (1), loading and unloading (see EN 13035-5 (1)), break-out (see EN 13035-6 (1)), transporting (see EN 619) of flat glass as used as integral parts of the machinery. If there are specific risks that arise in connection with tilting tables, appropriate measures are specified.
- **1.5** This document is not applicable to tilting tables which are manufactured before the date of publication of this document by CEN.

### 2 Normative references

- 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.
- A<sub>1</sub>) deleted text (A<sub>1</sub>
- EN 349, Safety of machinery Minimum gaps to avoid crushing of parts of the human body
- A1) deleted text (A1)
- EN 953:1997, Safety of machinery Guards General requirements for the design and construction of fixed and movable guards
- A1) deleted text (A1)
- EN 999:1998, Safety of machinery The positioning of protective equipment in respect of approach speeds of parts of the human body
- A<sub>1</sub>) deleted text (A<sub>1</sub>