

## საქართველოს სტანდარტი

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ამწეები - კონსტრუქციის ზოგადი დებულებები - ნაწილი 3-5: ზღვრული  
მდგომარეობის და ჭედური კავკების გამოყენების შემოწმება

საქართველოს სტანდარტებისა და მეტროლოგიის  
ეროვნული სააგენტო  
თბილისი

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## Cranes - General design - Part 3-5: Limit states and proof of competence of forged hooks

Appareils de levage à charge suspendue - Conception générale - Partie 3-5 : Etats limites et vérification des crochets forgés

Krane - Konstruktion allgemein - Teil 3-5: Grenzzustände und Sicherheitsnachweise von geschmiedeten Haken

This European Standard was approved by CEN on 19 May 2016.

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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-CENELEC Management Centre has the same status as the official versions.

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## European foreword

This document (EN 13001-3-5:2016) has been prepared by Technical Committee CEN/TC 147 “Crane — Safety”, the secretariat of which is held by BSI.

This document supersedes CEN/TS 13001-3-5:2010.

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of an identical text or by endorsement, at the latest by February 2017, and conflicting national standards shall be withdrawn at the latest by February 2017.

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

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 major changes in this standard compared to CEN/TS 13001-3-5 are in 4.1, 4.2, 6.5, Clause 7 and Annex K (renumbered Annex J). A new Annex C has been added. Annexes E and F have been removed. New hook sizes were added to Annexes A and B.

This European Standard is one part of the EN 13001 series. The other parts are as follows:

- *Part 1: General principles and requirements*
- *Part 2: Load actions*
- *Part 3-1: Limit states and proof of competence of steel structures*
- *Part 3-2: Limit states and proof of competence of wire ropes in reeving systems*
- *Part 3-3: Limit states and proof of competence of wheel/rail contacts*
- *Part 3-4: Limit states and proof of competence of machinery - Bearings<sup>1</sup>*
- *Part 3-6: Limit states and proof of competence of machinery - Hydraulic cylinders<sup>2</sup>*

For the relationship with other European Standards for cranes, see Annex L.

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.

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<sup>1</sup> Currently at Enquiry stage.

<sup>2</sup> Currently at Enquiry stage.

საინფორმაციო ნაწილი. სრული ტექსტის სანახავად შეიძლება სტანდარტი.

## Introduction

This European Standard has been prepared to provide a means for the mechanical design and theoretical verification of cranes to conform to essential health and safety requirements. This European Standard also establishes interfaces between the user (purchaser) and the designer, as well as between the designer and the component manufacturer, in order to form a basis for selecting cranes and components.

This European Standard 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 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.