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NSAI Standards

Irish Standard
I.S. EN 12999:2011+A2:2018

Cranes - Loader cranes

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National Foreword

I.S. EN 12999:2011+A2:2018 is the adopted Irish version of the European Document EN 12999:2011+A2:2018, Cranes - Loader cranes

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 12999:2011+A2

February 2018

ICS 53.020.20

English Version

Cranes - Loader cranes

Appareils de levage à charge suspendue - Grues de chargement

Krane - Ladekrane

This European Standard was approved by CEN on 13 May 2012 and includes Amendment 2 approved by CEN on 10 March 2017.

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European foreword

This document (EN 12999:2011+A2:2018) has been prepared by Technical Committee CEN/TC 147 "Cranes - Safety", the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by August 2018, and conflicting national standards shall be withdrawn at the latest by August 2018.

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 13 May 2012.

This document includes Amendment 2 approved by CEN on 10 March 2017.

This document supersedes ▌A2⟩ EN 12999:2011+A1:2012 ⟨A2▌.

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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.

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Introduction

This European Standard is a harmonized standard to provide one means for loader cranes to conform to the essential health and safety requirements of the Machinery Directive 2006/42/EC.

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

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.

The machinery concerned and the extent to which hazards are covered are indicated in the scope of this European Standard.

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1 Scope

This European Standard specifies minimum requirements for design, calculation, examinations and tests of hydraulic powered loader cranes and their mountings on vehicles or static foundations.

This European Standard does not apply to loader cranes used on board ships or floating structures or to articulated boom system cranes which are designed as total integral parts of special equipment such as forwarders.

The hazards covered by this standard are identified in Clause 4.

This European Standard does not cover hazards related to the lifting of persons.

This European Standard is not applicable to loader cranes which are manufactured before the date of its publication as EN. [A2] The amended provisions concerning stress calculations are not compulsory for cranes designed before the date of availability of EN 12999:2011+A2:2017. [A2]

NOTE The use of cranes for lifting of persons can be subject to specific national regulations.

2 Normative references

[A1] 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. [A1]

[A2] NOTE In the event of conflicting statements between referenced documents and this document, the statements in this document apply. [A2]

EN 349:1993+A1:2008, *Safety of machinery - Minimum gaps to avoid crushing of parts of the human body*

EN 12077-2:1998+A1:2008, *Cranes safety - Requirements for health and safety - Part 2: Limiting and indicating devices*

EN 14492-2:2006+A1:2009, *Cranes - Power driven winches and hoists - Part 2: Power driven hoists*

EN 12644-1:2001+A1:2008, *Cranes - Information for use and testing - Part 1: Instructions*

EN 12644-2:2000+A1:2008, *Cranes - Information for use and testing - Part 2: Marking*

EN 13001-1:2004+A1:2009, *Cranes — General design — Part 1: General principles and requirements*

EN 13001-2:2004+A3:2009, *Cranes safety — General design — Part 2: Load effects*

[A2] EN 13001-3-1 [A2], *Cranes — General design — Part 3-1: Limit states and proof competence of steel structure*

[A2] EN 13001-3-2, *Cranes - General design - Part 3-2: Limit states and proof of competence of wire ropes in reeving systems* [A2]

EN 13557:2003+A2:2008, *Cranes - Controls and control stations*

EN 13586:2004+A1:2008, *Cranes - Access*

[A2] EN 14033-2, *Railway applications – Track – Railbound construction and maintenance machines – Part 2: Technical requirements for working* [A2]

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