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NSAI Standards

Irish Standard
I.S. EN 13135-2:2004+A1:2010

Cranes - Equipment - Part 2: Non-electrotechnical equipment

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EUROPEAN STANDARD

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EN 13135-2:2004+A1

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English Version

Cranes - Equipment - Part 2: Non-electrotechnical equipment

Appareils de levage à charge suspendue - Equipements - Partie 2: Equipements non électrotechniques

Krane - Ausrüstungen - Teil 2: Nicht-elektrotechnische Ausrüstungen

This European Standard was approved by CEN on 9 July 2004 and includes Corrigendum 1 issued by CEN on 19 October 2005 and Amendment 1 approved by CEN on 15 July 2010.

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Foreword

This document (EN 13135-2:2004+A1:2010) 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of an identical text or by endorsement, at the latest by February 2011, and conflicting national standards shall be withdrawn at the latest by February 2011.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 2010-07-15 and Corrigendum 1, issued by CEN on 2005-10-19.

This document supersedes EN 13135-2:2004.

The start and finish of text introduced or altered by amendment is indicated in the text by tags ▌A1⟩ ⟨A1▌.

The modifications of the related CEN Corrigendum have been implemented at the appropriate places in the text and are indicated by the tags ▌AC⟩ ⟨AC▌.

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.

This standard is one part of EN 13135 The other part is:

— *Cranes - Safety - Design - Requirements for equipment - Part 1: Electrotechnical equipment*

For the relationship with other European Standards for cranes, see informative annex A.

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.

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Introduction

This document is a harmonised standard to provide one means for non-electrotechnical equipment for cranes to conform with the relevant Essential Health and Safety Requirements of the Machinery Directive.

[A1] This European Standard is a type C standard as stated in EN ISO 12100-1:2003. [A1]

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 that have been designed and built according to the provisions of this type C standard.

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1 Scope

This document specifies requirements for design and selection of non-electrotechnical equipment for all types of crane with the objectives of protecting personnel from hazards affecting their lives and health and of ensuring reliability of function. The fixed load lifting attachments are integral part of the crane and therefore belong also to the scope of this standard.

Non-electrotechnical equipment comprises:

— Structure and structural equipment;

— driving mechanisms;

— rope and chain drives;

— fixed load lifting attachments;

— safety devices;

— fluid power systems.

The significant hazards covered by this document are identified in clause 4.

Hazards due to noise are not covered by this standard. They are addressed in safety standards specific to each type of crane.

The principles to be applied for cranes transporting hazardous loads are given in this standard. Particular requirements are given for cranes transporting hot molten metal.

This standard does not give the additional requirements for:

— equipment requiring a high level of cleanliness for hygiene reasons, e.g. in direct contact with foodstuffs or pharmaceuticals;

— equipment operating in clean rooms with a dust controlled environment, (e.g. satellite assembling room, electronic industry, food processing, pharmaceuticals processing);

— hazards resulting from handling explosives and radiating material;

— hazards caused by operation subject to special regulations (e.g. explosive atmospheres);

— the risk related to lifting of persons.

This document is applicable to non-electrotechnical equipment which is manufactured after the date of approval by CEN of this standard.

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