

Kraanad. Ohutus. Käsiajamiga tõsteseadmed

Cranes - Safety - Hand powered lifting equipment

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 13157:2004 sisaldab Euroopa standardi EN 13157:2004 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 23.09.2004 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 09.06.2004.

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This Estonian standard EVS-EN 13157:2004 consists of the English text of the European standard EN 13157:2004.

This standard is ratified with the order of Estonian Centre for Standardisation dated 23.09.2004 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

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Võtmesõnad:

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Kui Teil on küsimusi standardite autorikaitse kohta, palun võtke ühendust Eesti Standardikeskusega:
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English version

Cranes - Safety - Hand powered lifting equipment

Appareils de levage à charge suspendue - Sécurité -
Appareils de levage à bras

Krane - Sicherheit - Handbetriebene Krane

This European Standard was approved by CEN on 22 October 2003.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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Foreword

This document EN 13157:2004 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 December 2004, and conflicting national standards shall be withdrawn at the latest by December 2004.

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).

Annex A is normative.

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom

Introduction

This European Standard has been prepared to be a harmonised standard to provide one means for hand powered lifting equipment to conform to the essential health and safety requirements of the Machinery Directive, as amended.

This European Standard is a type C standard as stated in ENV 1070: 1993.

The machinery concerned and the extent to which hazards 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 lever blocks which have been designed and built according to the provisions of this type C standard.

1 Scope

This European Standard specifies requirements for the following hand powered lifting equipment defined in clause 3:

- Hand chain blocks;
- Lever hoists;
- Jaw winches;
- Hand powered trolleys supporting lifting machines;
- Drum winches;
- Pulley blocks and deflection pulley.

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

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

This standard does not specify the additional requirements for :

- use in ambient temperature outside the range of - 10°C to + 50°C,
- hand powered lifting equipment in direct contact with food stuffs or pharmaceuticals requiring a high level of cleanliness for hygiene reasons;
- hazards resulting from handling specific hazardous materials (e.g. explosives, hot molten masses, radiating materials);
- hazards caused by operation in an explosive atmosphere.

This European Standard is applicable to hand powered lifting equipment, which are manufactured after the date of approval by CEN of this standard.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 292-1:1991, *Safety of machinery - Basic concepts, general principles for design - Part 1: Basic terminology, methodology*

EN 292-2/A1:991 / 1995, *Safety of machinery - Basic concepts, general principles for design - Part 2: Technical principles and specifications*

EN 818-7:996, *Short link chain for lifting purposes - Safety - Part 7: Fine tolerance hoist chain, Grades T (Types T, DAT and DT)*

EN 1005-3, *Safety of machinery – Human physical performance –Part 3: Recommended force limits for machinery operation*

EN 1070, *Safety of machinery - Terminology*

EN 12385-1, *Steel wire ropes Safety - Part 1: General requirements*

EN 12385-4, *Steel wire ropes Safety - Part 4: Stranded ropes for general lifting applications*

EN 13411-1, *Terminations for steel wire ropes – Safety - Part 1: Thimbles for steel wire rope slings*

EN 13411-2, *Terminations for steel wire ropes – Safety - Part 2: Splicing of eyes for wire rope slings*

prEN 13411-3, *Terminations for steel wire ropes – Safety - Part 3: Ferrules and ferrule-securing*

EN 13411-4, *Terminations for steel wire ropes – Safety - Part 4: Metal and resin socketing*

prEN 13411-6, *Terminations for steel wire ropes – Safety - Part 6: Asymmetric wedge socket*

prEN 13411-7, *Terminations for steel wire ropes – Safety - Part 7: Symmetric wedge socket*

ISO 606, *Short-pitch transmission precision roller and bush chains, attachments and associated chain sprockets*

ISO 4309, *Cranes – Wires ropes – Code of practice for examination and discard*