

**Troppide komponendid. Ohutus. Osa 5:
Sepaterasest fiksaatoriga
tõstekonksud. Klass 4**

Components for slings - Safety - Part 5: Forged steel
lifting hooks with latch - Grade 4

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 1677-5:2001 sisaldab Euroopa standardi EN 1677-5:2001 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 19.12.2001 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 1677-5:2001 consists of the English text of the European standard EN 1677-5:2001.</p> <p>This document is endorsed on 19.12.2001 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This part of EN 1677 specifies requirements for forged steel lifting hooks of grade 4 having latch and eye up to 31,5 t WLL, mainly for use in: -chain slings according to EN 818-5 -steel wire rope slings according to prEN 13414:1998 - textile slings according to EN 1492-1, EN 1492-2 intended for lifting objects, materials or goods.</p>	<p>Scope: This part of EN 1677 specifies requirements for forged steel lifting hooks of grade 4 having latch and eye up to 31,5 t WLL, mainly for use in: -chain slings according to EN 818-5 -steel wire rope slings according to prEN 13414:1998 - textile slings according to EN 1492-1, EN 1492-2 intended for lifting objects, materials or goods.</p>
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Võtmesõnad: fork ends, grades, grades (quality), hoisting slings, hooks, lifting slings, load capacity, marking, mechanical properties, quality, round steel chains, safety, safety catch, safety requirements, specification (approval), specifications, testing, wire rope slings

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English version

Components for slings - Safety - Part 5: Forged steel lifting hooks with latch - Grade 4

Accessoires pour élingues - Sécurité - Partie 5: Crochets de levage en acier forgé à linguet - Classe 4

Einzelteile für Anschlagmittel - Sicherheit - Teil 5: Geschmiedete Haken mit Sicherungsklappe - Güteklasse 4

This European Standard was approved by CEN on 18 February 2001.

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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 Management Centre has the same status as the official versions.

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 168, "Chains, ropes, webbing, slings and accessories - 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 October 2001, and conflicting national standards shall be withdrawn at the latest by October 2001.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EC Directive(s).

For relationship with EC Directives, see informative Annex ZA, which is an integral part of this standard.

The other Parts of EN 1677 for components for slings are:

- Part 1: Forged steel components - Grade 8
- Part 2: Forged steel lifting hooks with latch - Grade 8
- Part 3: Forged steel self-locking hooks - Grade 8
- Part 4: Links - Grade 8
- Part 6: Links - Grade 4

Annexes A and B of this European Standard are informative.

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

Introduction

This European Standard has been prepared to be a harmonized standard providing one means of complying with the essential safety requirements of the Machinery Directive and associated EFTA regulations.

The hooks covered by this Part of EN 1677 are normally supplied to be part of a sling, but they may also be used for other applications. In such instances it is important that the hook design is checked to ensure its fitness for the intended use.

The extent to which hazards are covered is indicated in the scope. In addition, lifting equipment shall conform as appropriate to EN 292 for hazards that are not covered by this standard.

1 Scope

This Part of EN 1677 specifies requirements for forged steel lifting hooks of grade 4 having latch and eye up to 31,5 t WLL, mainly for use in:

- chain slings according to EN 818-5
- steel wire rope slings according to prEN 13414-1:1998
- textile slings according to EN 1492-1, EN 1492-2 .

intended for lifting objects, materials or goods.

This Part of EN 1677 does not apply to hand forged hooks.

The hazards covered by this Part of EN 1677 are identified in clause 4.

Annex A gives the bases for calculation of hook dimensions.

Annex B gives an example of a designation system for hooks of grade 4.

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 (including amendments).

EN 292-1	Safety of machinery - Basic Concepts - General principles for design Part 1 : Basic Terminology, methodology
EN 292-2:1991/ A.1 :1995	Safety of machinery - Basic concepts - General principles for design Part 2 : Technical principles and specifications (Amendment A.1 : 1995)
EN 818-5	Short-link chain for lifting purposes - Safety Part 5: Chain slings - Grade 4
EN 818-6	Short link chain for lifting purposes - Safety Part 6 : Chain slings - Specification for information for use and maintenance to be provided by the manufacturer
EN 1050:1996	Safety of machinery - Principles for risk assessment
EN 1492-1	Textile slings - Safety Part 1: Flat woven webbing slings made of man-made fibres
EN 1492-2	Textile slings - Safety Part 2: Round slings made of man-made fibres
EN 10002-2:1991	Metallic materials - Tensile testing Part 2: Verification of the force measuring system of the tensile testing machines
EN 10025:1990 +A1:1993	Hot rolled products of non-alloy structural steels - Technical delivery conditions
prEN 13414-1:1998	Steel wire ropes for slings – Safety Part 1: Wire rope slings
EN 45012	General requirements for bodies operating assessment and certification/registration of quality systems (ISO/IEC Guide 62:1996)
EN ISO 9002:1994	Quality systems - Model for quality assurance in production, installation and servicing
ISO 643:1983	Steels - Micrographic determination of the ferritic or austenitic grain size