

**Käeshoitavad mootorajamiga elektritööriistad. Ohutus.  
Osa 2-18: Erinõuded sidumistööriistadele**

Hand-held motor-operated electric tools - Safety - Part 2-18:  
Particular requirements for strapping tools

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 60745-2-18:2009 sisaldab Euroopa standardi EN 60745-2-18:2009 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 30.11.2009 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 30.09.2009.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 60745-2-18:2009 consists of the English text of the European standard EN 60745-2-18:2009.

This standard is ratified with the order of Estonian Centre for Standardisation dated 30.11.2009 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 30.09.2009.

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ICS 25.140.20

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English version

**Hand-held motor-operated electric tools -  
Safety -  
Part 2-18: Particular requirements for strapping tools  
(IEC 60745-2-18:2003, modified + A1:2008)**

Outils électroportatifs à moteur -  
Sécurité -  
Partie 2-18: Règles particulières  
pour les outils de cerclage  
(CEI 60745-2-18:2003, modifiée +  
A1:2008)

Handgeführte motorbetriebene  
Elektrowerkzeuge -  
Sicherheit -  
Teil 2-18: Besondere Anforderungen  
für Umreifungswerkzeuge  
(IEC 60745-2-18:2003, modifiziert +  
A1:2008)

This European Standard was approved by CENELEC on 2009-07-01. CENELEC 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 CENELEC 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 CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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

**CENELEC**

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**Central Secretariat: Avenue Marnix 17, B - 1000 Brussels**

## Foreword

The text of the International Standard IEC 60745-2-18:2003, prepared by SC 61F (transformed into IEC TC 116, Safety of hand-held motor-operated electric tools), together with the common modifications prepared by the Technical Committee CENELEC TC 61F (transformed into TC 116) was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 60745-2-18 on 2004-03-01.

A draft amendment (prAA) was prepared to align Subclause 6.2 with the new Subclause 6.2 in EN 60745-1. Moreover, vibration values determined with the new 6.2 are complying with the requirements of the Physical Agents Directive Vibration 2002/44/EC. The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as amendment A11 to EN 60745-2-18:2004 on 2007-06-01.

The text of document 61F/677/CDV, future amendment 1 to IEC 60745-2-18:2003 was submitted to the IEC-CENELEC parallel Unique Acceptance Procedure and was approved by CENELEC as amendment A1 to EN 60745-2-18:2004 on 2008-04-01.

A further draft amendment (prAB), extending Annex ZZ to include the new MD 2006/42/EC, was submitted to the formal vote.

The combined texts were approved by CENELEC as a new edition of EN 60745-2-18 on 2009-07-01.

This European Standard supersedes EN 60745-2-18:2004 + corrigendum December 2005 + A11:2007 + A1:2008.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2010-07-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2011-04-01

This standard is divided into two parts:

- Part 1: General requirements which are common to most hand-held electric motor operated tools (for the purpose of this standard referred to simply as tools) which could come within the scope of this standard;
- Part 2: Requirements for particular types of tools which either supplement or modify the requirements given in Part 1 to account for the particular hazards and characteristics of these specific tools.

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and supports the essential requirements of EC Directive 98/37/EC (Machinery Directive), amended by EC Directive 98/79/EC, and of EC Directive 2006/42/EC. See Annexes ZZA and ZZB.

Compliance with the clauses of Part 1 together with this Part 2 provides one means of conforming with the essential health and safety requirements of the Directive concerned.

**Warning:** Other requirements and other EC Directives can be applicable to the products falling within the scope of this standard.

This standard follows the overall requirements of EN ISO 12100-1 and EN ISO 12100-2.

This Part 2-18 is to be used in conjunction with EN 60745-1:2009. When this standard states "addition", "modification" or "replacement", the relevant text of Part 1 is to be adapted accordingly.

Subclauses, tables and figures which are additional to those in Part 1 are numbered starting from 101.

Subclauses, tables and figures which are additional to those in IEC 60745-2-18 are prefixed "Z".

NOTE In this standard the following print types are used:

- Requirements proper;
- *Test specifications*;
- Explanatory matter.

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## Endorsement notice

The text of the International Standard IEC 60745-2-18:2003 + A1:2008 was approved by CENELEC as a European Standard with agreed common modifications as given below.

### COMMON MODIFICATIONS

## 6 Void

*Replace by:*

## 6 Environmental requirements

This clause of Part 1 is applicable except as follows:

### 6.1.2.4 Modification:

**Strapping tools** are suspended with the motor axis horizontal.

### 6.1.2.5 Modification:

**Strapping tools** are tested at no-load.

## 6.2 Vibration

### 6.2.6.3 Operating conditions

*Modification:*

**Table Z101 – Operating conditions for strapping tools**

Orientation	Clinching straps around a test package. The test package is a wooden box 1 m cubic with an internal bracing to prevent collapsing
Tool bit	Strapping material of medium width
Grip force	Hold the machine with normal gripping force, avoiding excessive gripping force
Test cycle	One test cycle is given by clinching one strap. Three series of five consecutive tests shall be carried out using a different operator for each series.

### 6.2.7.2 Declaration of the vibration total value

*Addition:*

The vibration total value  $a_h$  of the handle with the highest emission and the uncertainty  $K$  shall be declared.

## 21 Construction

*Add:*

**21.Z1** This clause of Part 1 is not applicable.

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*Add the following annex:*

**Annex ZZ**  
(informative)

**Coverage of Essential Requirements of EC Directives**

**Annex ZZA**  
(informative)

**Coverage of Essential Requirements of Directive 98/37/EC**

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and within its scope the standard covers all relevant Essential Requirements as given in EC Directive 98/37/EC (Machinery Directive), amended by Directive 98/79/EC.

Compliance with this standard provides one means of conformity with the specified essential requirements of the Directives concerned.

WARNING: Other requirements and other EC Directives may be applicable to the products falling within the scope of this standard.

**Annex ZZB**  
(informative)

**Coverage of Essential Requirements of Directive 2006/42/EC**

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and within its scope the standard covers all relevant Essential Requirements as given in EC Directive 2006/42/EC (Machinery Directive).

Compliance with this standard provides one means of conformity with the specified essential requirements of the Directive concerned.

WARNING: Other requirements and other EC Directives may be applicable to the products falling within the scope of this standard.

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## CONTENTS

FOREWORD.....	3
1 Scope.....	5
2 Normative references.....	5
3 Terms and definitions.....	5
4 General requirements.....	5
5 General conditions for the tests.....	5
6 Void.....	5
7 Classification.....	5
8 Marking and instructions.....	5
9 Protection against access to live parts.....	5
10 Starting.....	6
11 Input and current.....	6
12 Heating.....	6
13 Leakage current.....	6
14 Moisture resistance.....	6
15 Electric strength.....	6
16 Overload protection of transformers and associated circuits.....	6
17 Endurance.....	6
18 Abnormal operation.....	7
19 Mechanical hazards.....	7
20 Mechanical strength.....	7
21 Construction.....	7
22 Internal wiring.....	7
23 Components.....	7
24 Supply connection and external flexible cords.....	7
25 Terminals for external conductors.....	7
26 Provision for earthing.....	7
27 Screws and connections.....	7
28 Creepage distances, clearances and distances through insulation.....	7
29 Resistance to heat, fire and tracking.....	8
30 Resistance to rusting.....	8
31 Radiation, toxicity and similar hazards.....	8
Annexes.....	9
Annex K (normative) Battery tools and battery packs.....	9
Annex L (normative) Battery tools and battery packs provided with mains connection or non-isolated sources.....	9
Bibliography.....	9

## HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS – SAFETY –

### Part 2-18: Particular requirements for strapping tools

#### 1 Scope

This clause of Part 1 is applicable, except as follows:

*Addition:*

This standard applies to strapping tools.

#### 2 Normative references

This clause of Part 1 is applicable.

#### 3 Terms and definitions

This clause of Part 1 is applicable, except as follows:

##### 3.101

##### **strapping tool**

tool for clinching straps on boxes

#### 4 General requirements

This clause of Part 1 is applicable.

#### 5 General conditions for the tests

This clause of Part 1 is applicable.

#### 6 Void

#### 7 Classification

This clause of Part 1 is applicable.

#### 8 Marking and instructions

This clause of Part 1 is applicable.

#### 9 Protection against access to live parts

This clause of Part 1 is applicable.