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Standards

Irish Standard
I.S. EN 60745-2-19:2009

Hand-held motor-operated electric tools - Safety -- Part 2-19: Particular requirements for jointers (IEC 60745-2-19:2005 (MOD))

I.S. EN 60745-2-19:2009

Incorporating amendments/corrigenda issued since publication:

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EUROPEAN STANDARD

EN 60745-2-19/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2010

ICS 25.140.20

English version

**Hand-held motor-operated electric tools -
Safety -
Part 2-19: Particular requirements for jointers
(IEC 60745-2-19:2005/A1:2010)**

Outils électroportatifs à moteur -
Sécurité -
Partie 2-19: Règles particulières pour
les mortaiseuses
(CEI 60745-2-19:2005/A1:2010)

Handgeführte motorbetriebene
Elektrowerkzeuge -
Sicherheit -
Teil 2-19: Besondere Anforderungen
für Flachdübelfräsen
(IEC 60745-2-19:2005/A1:2010)

This amendment A1 modifies the European Standard EN 60745-2-19:2009; it was approved by CENELEC on 2010-06-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 amendment 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, Croatia, 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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 116/36/FDIS, future amendment 1 to IEC 60745-2-19:2005, prepared by TC 116, Safety of hand-held motor-operated electric tools, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A1 to EN 60745-2-19:2009 on 2010-06-01.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2011-03-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2013-06-01

This amendment has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and covers essential requirements of EC Directive 2006/42/EC. See Annex ZZ included in EN 60745-2-19:2009.

Endorsement notice

The text of amendment 1:2010 to the International Standard IEC 60745-2-19:2005 was approved by CENELEC as an amendment to the European Standard without any modification.

English version

**Hand-held motor-operated electric tools -
Safety -
Part 2-19: Particular requirements for jointers
(IEC 60745-2-19:2005, modified)**

Outils électroportatifs à moteur -
Sécurité -
Partie 2-19: Règles particulières
pour les mortaiseuses
(CEI 60745-2-19:2005, modifiée)

Handgeführte motorbetriebene
Elektrowerkzeuge -
Sicherheit -
Teil 2-19: Besondere Anforderungen
für Flachdübelfräsen
(IEC 60745-2-19:2005, modifiziert)

This European Standard was approved by CENELEC on 2009-06-01. 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 60745-2-19:2005, prepared by IEC SC 61F, (transformed into IEC TC 116, Safety of hand-held motor-operated electric tools), together with common modifications prepared by the Technical Committee CENELEC TC 61F (transformed into TC 116), Safety of hand-held motor-operated electric tools, was submitted to the formal vote and was approved by CENELEC as EN 60745-2-19 on 2005-06-01.

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 60745-2-19:2005 on 2007-07-01.

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 60745-2-19 on 2009-06-01.

This European Standard supersedes EN 60745-2-19:2005 + A11:2007.

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) 2009-12-29
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2009-12-29

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 2006/42/EC. See Annexes ZZA and ZZB.

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 2-19 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 60745-2-19 are prefixed "Z".

Annexes ZA, ZZA and ZZB have been added by CENELEC.

NOTE In this standard the following print types are used:

- requirements proper; in roman type
 - *test specifications: in italic type;*
 - explanatory matter: in smaller roman type.
-

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COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

**OUTILS ÉLECTROPORTATIFS À MOTEUR –
SÉCURITÉ –**
Partie 2-19: Règles particulières pour les mortaiseuses

AVANT-PROPOS

- 1) La Commission Electrotechnique Internationale (CEI) est une organisation mondiale de normalisation composée de l'ensemble des comités électrotechniques nationaux (Comités nationaux de la CEI). La CEI a pour objet de favoriser la coopération internationale pour toutes les questions de normalisation dans les domaines de l'électricité et de l'électronique. A cet effet, la CEI – entre autres activités – publie des Normes internationales, des Spécifications techniques, des Rapports techniques, des Spécifications accessibles au public (PAS) et des Guides (ci-après dénommés "Publication(s) de la CEI"). Leur élaboration est confiée à des comités d'études, aux travaux desquels tout Comité national intéressé par le sujet traité peut participer. Les organisations internationales, gouvernementales et non gouvernementales, en liaison avec la CEI, participent également aux travaux. La CEI collabore étroitement avec l'Organisation Internationale de Normalisation (ISO), selon des conditions fixées par accord entre les deux organisations.
- 2) Les décisions ou accords officiels de la CEI concernant les questions techniques représentent, dans la mesure du possible, un accord international sur les sujets étudiés, étant donné que les Comités nationaux de la CEI intéressés sont représentés dans chaque comité d'études.
- 3) Les Publications de la CEI se présentent sous la forme de recommandations internationales et sont agréées comme telles par les Comités nationaux de la CEI. Tous les efforts raisonnables sont entrepris afin que la CEI s'assure de l'exactitude du contenu technique de ses publications; la CEI ne peut pas être tenue responsable de l'éventuelle mauvaise utilisation ou interprétation qui en est faite par un quelconque utilisateur final.
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- 6) Tous les utilisateurs doivent s'assurer qu'ils sont en possession de la dernière édition de cette publication.
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- 8) L'attention est attirée sur les références normatives citées dans cette publication. L'utilisation de publications référencées est obligatoire pour une application correcte de la présente publication.
- 9) L'attention est attirée sur le fait que certains des éléments de la présente Publication de la CEI peuvent faire l'objet de droits de propriété intellectuelle ou de droits analogues. La CEI ne saurait être tenue pour responsable de ne pas avoir identifié de tels droits de propriété et de ne pas avoir signalé leur existence.

La Norme internationale CEI 60745-2-19 a été établie par le sous-comité 61F, Sécurité des outils électroportatifs à moteur, du comité d'études 61 de la CEI: Sécurité des appareils électrodomestiques et analogues.

Le texte de cette norme est issu des documents suivants:

FDIS	Rapport de vote
61F/582A/FDIS	61F/597/RVD

Le rapport de vote indiqué dans le tableau ci-dessus donne toute information sur le vote ayant abouti à l'approbation de cette norme.

Cette publication a été rédigée selon les Directives ISO/CEI, Partie 2.

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS –
SAFETY –****Part 2-19: Particular requirements for jointers**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
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- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60745-2-19 has been prepared by subcommittee 61F: Safety of hand-held motor-operated electric tools, of IEC technical committee 61: Safety of household and similar electrical appliances.

The text of this standard is based on the following documents:

FDIS	Report on voting
61F/582A/FDIS	61F/597/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

La présente Partie 2-19 doit être utilisée conjointement avec la dernière édition de la CEI 60745-1, *Outils électroportatifs à moteur – Sécurité – Partie 1: Règles générales* et ses amendements. Elle a été établie sur la base de la troisième édition (2001) de cette norme.

NOTE 1 L'expression «Partie 1» utilisée dans la présente norme fait référence à la CEI 60745-1.

La présente partie 2 complète ou modifie les articles correspondants de la CEI 60745-1 de façon à transformer cette publication en norme CEI: Règles de sécurité pour les **mortaiseuses**.

Lorsqu'un paragraphe particulier de la Partie 1 n'est pas mentionné dans cette partie 2, ce paragraphe s'applique pour autant qu'il est raisonnable. Lorsque cette partie indique «addition», «modification» ou «remplacement», le texte correspondant de la Partie 1 doit être adapté en conséquence.

NOTE 2 Le système de numérotation suivant est utilisé:

- paragraphes, tableaux et figures: ceux qui sont numérotés à partir de 101 sont supplémentaires à ceux de la Partie 1;
- les annexes supplémentaires sont appelées AA, BB, etc.

NOTE 3 Les caractères d'imprimerie suivants sont utilisés:

- prescriptions: caractères romains;
- *modalités d'essais: caractères italiques;*
- notes: petits caractères romains.

Les mots en **gras** dans le texte sont définis à l'article 3. Lorsqu'une définition concerne un adjectif, l'adjectif et le nom associé figurent également en gras.

Le comité a décidé que le contenu de cette publication ne sera pas modifié avant la date de maintenance indiquée sur le site web de la CEI sous «<http://webstore.iec.ch>» dans les données relatives à la publication recherchée. A cette date, la publication sera

- reconduite;
- supprimée;
- remplacée par une édition révisée, ou
- amendée.

I.S. EN 60745-2-19:2009

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This part 2 is to be used in conjunction with the latest edition of IEC 60745-1, *Hand-held motor-operated electric tools – Safety – Part 1: General requirements*, and its amendments. It was established on the basis of the third edition (2001) of that standard.

NOTE 1 When “Part 1” is mentioned in this standard, it refers to IEC 60745-1.

This part 2 supplements or modifies the corresponding clauses of IEC 60745-1, so as to convert that publication into the IEC standard: Safety requirements for electric strapping tools.

When a particular subclause of Part 1 is not mentioned in this part 2, that subclause applies as far as is reasonable. When this standard states “addition”, “modification” or “replacement”, the relevant text in Part 1 is to be adapted accordingly.

NOTE 2 The following numbering system is used:

- subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
- additional annexes are lettered AA, BB, etc.

NOTE 3 In this standard, the following print types are used:

- requirements: in roman type;
- *test specifications: in italic type;*
- notes: in smaller roman type.

Words in **bold** in the text are defined in Clause 3. When a definition concerns an adjective, the adjective and the associated noun are also in bold.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

OUTILS ÉLECTROPORTATIFS À MOTEUR – SÉCURITÉ –

Partie 2-19: Règles particulières pour les mortaiseuses

1 Domaine d'application

L'article de la Partie 1 est applicable avec l'exception suivante.

1.1 *Addition:*

La présente norme s'applique aux **mortaiseuses** destinées à couper du bois ou tout matériau similaire.

2 Références normatives

L'article de la Partie 1 est applicable.

3 Définitions

L'article de la Partie 1 est applicable avec l'exception suivante.

3.101

mortaiseuse

outil équipé d'une fraise (lame circulaire) destiné à creuser une mortaise ou une rainure

NOTE Des exemples de conception de **mortaiseuses** sont illustrés à la Figure 101.

3.102

fraise

accessoire de coupe rotatif dont le sens d'avance principal est perpendiculaire à son axe de rotation pour travailler le bois ou tout matériau similaire, retirant les copeaux, coupant simultanément sur la périphérie et les deux flancs. Le diamètre de l'accessoire est très supérieur à son épaisseur

4 Exigences générales

L'article de la Partie 1 est applicable.

5 Conditions générales d'essais

L'article de la Partie 1 est applicable.

6 Vacant

7 Classification

L'article de la Partie 1 est applicable.

HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS – SAFETY –

Part 2-19: Particular requirements for jointers

1 Scope

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

1.1 *Addition:*

This standard applies to **jointers** for cutting into wood or similar material.

2 Normative references

This clause of Part 1 is applicable.

3 Definitions

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

3.101

jointer

tool equipped with a disc cutter intended to cut a slot or groove.

NOTE Examples of **jointer** designs are shown in Figure 101

3.102

disc cutter

rotating cutting accessory having its main feed direction perpendicular to its axis of rotation, for working in wood or similar material through chip removing, cutting on its periphery and both flanks simultaneously. The diameter of the accessory is much larger than its thickness

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.

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