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Irish Standard I.S. EN 60745-2-22:2011

Hand-held motor-operated electric tools - Safety -- Part 2-22: Particular requirements for cut-off machines (IEC 60745-2-22:2011 (MOD))

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EUROPEAN STANDARD

EN 60745-2-22/A11

NORME EUROPÉENNE EUROPÄISCHE NORM

January 2013

ICS 25.140.20

English version

Hand-held motor-operated electric tools -Safety -Part 2-22: Particular requirements for cut-off machines

Outils électroportatifs à moteur -Sécurité -Partie 2-22: Règles particulières pour les tronçonneuses à disques Handgeführte motorbetriebene Elektrowerkzeuge -Sicherheit -Teil 2-22: Besondere Anforderungen für Trennschleifmaschinen

This amendment A11 modifies the European Standard EN 60745-2-22:2011; it was approved by CENELEC on 2012-12-17. 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.

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

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I.S. EN 60745-2-22:2011 - 2 -

EN 60745-2-22:2011/A11:2013

Foreword

This document (EN 60745-2-22:2011/A11:2013) has been prepared by CLC/TC 116 "Safety of motor-operated electric tools".

The following dates are fixed:

- latest date by which this document has to be implemented (dop) 2013-12-17 at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with (dow) 2015-12-17 this document have to be withdrawn

Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 60745-2-22:2011 are prefixed "Z".

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and supports Essential Requirements of EU Directive 2006/42/EC.

EUROPEAN STANDARD

EN 60745-2-22

NORME EUROPÉENNE EUROPÄISCHE NORM

June 2011

ICS 25.140.20

English version

Hand-held motor-operated electric tools -Safety -Part 2-22: Particular requirements for cut-off machines (IEC 60745-2-22:2011, modified)

Outils électroportatifs à moteur -Sécurité -Partie 2-22: Règles particulières pour les tronçonneuses à disques (CEI 60745-2-22:2011, modifiée) Handgeführte motorbetriebene Elektrowerkzeuge -Sicherheit -Teil 2-22: Besondere Anforderungen für Trennschleifmaschinen (IEC 60745-2-22:2011, modifiziert)

This European Standard was approved by CENELEC on 2011-04-18. 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, 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

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EN 60745-2-22:2011

Foreword

The text of document 116/57/FDIS, future edition 1 of IEC 60745-2-22, prepared by IEC TC 116, Safety of hand-held motor-operated electric tools, was submitted to the IEC-CENELEC parallel vote.

A draft amendment, prepared by the Technical Committee CENELEC TC 116, Safety of motor-operated electric tools, was submitted to the formal vote.

The combined texts were approved by CENELEC as EN 60745-2-22 on 2011-04-18.

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)	2012-04-18
_	latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2014-04-18

This European 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 draft European Standard 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.

Compliance with the clauses of Part 1 together with this Part 2-22 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 European Standard follows the overall requirements of EN ISO 12100-1 and EN ISO 12100-2.

This Part 2-22 is to be used in conjunction with EN 60745-1:2009. When this standard states "addition", "modification" or "replacement", the relevant text in Part 1 is to be adapted accordingly.

Subclauses and figures which are additional to those in Part 1 are numbered starting from 101; additional annexes are lettered AA, BB, etc.

Subclauses, tables and figures which are additional to those in IEC 60745-2-22 are prefixed "Z".

Annexes ZA and ZZ have been added by CENELEC.

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

- Requirements: in roman type;
- Test specification: in italic type;
- Notes: in smaller roman type.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS – SAFETY –

Part 2-22: Particular requirements for cut-off machines

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.
- 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.

This part of International Standard IEC 60745 has been prepared by IEC technical committee 116: Safety of motor-operated electric tools.

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

FDIS	Report on voting
116/57/FDIS	116/62/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.

This Part 2 is to be used in conjunction with the fourth edition of IEC 60745-1 (2006): *Handheld motor-operated electric tools – Safety – Part 1: General requirements,* and its amendments.

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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 cut-off machines.

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.

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

A list of all the parts in the IEC 60745 series, published under the general title *Hand-held motor-operated electric tools – Safety*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability 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.

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HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS – SAFETY –

Part 2-22: Particular requirements for cut-off machines

1 Scope

This clause of Part 1 is applicable as follows:

Addition:

This standard applies to cut-off machines fitted with

- one **bonded reinforced wheel** of Type 41 or Type 42, or
- one or more diamond cut-off wheels with the peripheral gaps, if any, not exceeding 10 mm

and with

- a rated speed not exceeding a peripheral speed of the wheel of 100 m/s at rated capacity and
- a rated wheel capacity range of 55 mm to 410 mm.

These machines are intended to cut materials such as metals, concrete, masonry, glass and tile.

This standard does not apply to:

- grinders, sanders, or polishers, even if they can be converted to a cut-off machine, which are covered by IEC 60745-2-3;
- circular saws which are covered by IEC 60745-2-5.

2 Normative references

This clause of Part 1 is applicable except as follows:

Addition:

ISO 603-15:1999, Bonded abrasive products – Dimensions – Part 15: Grinding wheels for cutting-off on stationary or mobile cutting-off machines

ISO 603-16:1999, Bonded abrasive products – Dimensions – Part 16: Grinding wheels for cutting-off on hand-held power tools

3 Terms and definitions

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

3.101

blotter

thin piece of an easily compressible material, between the abrasive product and flange



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