

BS EN 60745-2-21:2009+A1:2010



BSI Standards Publication

Hand-held motor-operated electric tools — Safety

Part 2-21: Particular requirements for drain cleaners

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National foreword

This British Standard is the UK implementation of EN 60745-2-21:2009+A1:2010. It was derived by CENELEC from IEC 60745-2-21:2002, incorporating amendment 1:2008. It supersedes BS EN 60745-2-21:2009, which will be withdrawn on 1 December 2013.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to IEC text carry the number of the IEC amendment. For example, text altered by IEC amendment A1 is indicated by A1 A1.

The CENELEC common modifications have been implemented at the appropriate places in the text and are indicated by tags (e.g. C C).

The UK participation in its preparation was entrusted to Technical Committee CPL/116, Portable motor-operated tools.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 28 February 2010.

Amendments/corrigenda issued since publication

Date	Text affected
31 July 2011	Implementation of IEC amendment 1:2008, with CENELEC endorsement A1:2010.

English version

**Hand-held motor-operated electric tools -
Safety -
Part 2-21: Particular requirements for drain cleaners
(IEC 60745-2-21:2002, modified)**

Outils électroportatifs à moteur -
Sécurité -
Partie 2-21: Règles particulières
pour les curettes
(CEI 60745-2-21:2002, modifiée)

Handgeführte motorbetriebene
Elektrowerkzeuge -
Sicherheit -
Teil 2-21: Besondere Anforderungen
für Rohrreinigungsgeräte
(IEC 60745-2-21:2002, modifiziert)

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 60745-2-21:2002, 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 as EN 60745-2-21 on 2007-05-01.

A draft amendment (prAA), 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 60745-2-21 on 2009-07-01.

This European Standard supersedes EN 60745-2-21:2007.

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) 2010-05-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2010-05-01

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 covers essential requirements of EC Directive 98/37/EC (Machinery Directive), amended by Directive 98/79/EC, and of EC Directive 2006/42/EC. See Annex ZZA and Annex 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 Directives 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 2-21 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, 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 60745-2-21 are prefixed "Z".

Annexes 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.

Endorsement notice

The text of the International Standard IEC 60745-2-21:2002 was approved by CENELEC as a European Standard with agreed common modifications.

Foreword to Amendment A1

The text of amendment 1:2008 to the International Standard IEC 60745-2-21:2002, prepared by TC 116, Safety of hand-held motor-operated electric tools, was submitted to the Unique Acceptance Procedure and was approved by CENELEC as amendment A1 to EN 60745-2-21:2009 on 2010-12-01 without any modification.

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) 2011-12-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2013-12-01

Endorsement notice

The text of amendment 1:2008 to the International Standard IEC 60745-2-21:2002 was approved by CENELEC as an amendment to the European Standard without any modification.
