

Hand-held motor-operated electric tools — Safety —

Part 2-1: Particular requirements for drills and impact drills

ICS 25.140.20; 25.140.30

National foreword

This British Standard is the UK implementation of EN 60745-2-1:2003+A12:2009. It is derived from IEC 60745-2-1:2003, incorporating amendment 1:2008. It supersedes BS EN 60745-2-1:2003+A1:2009 which will be withdrawn on 1 May 2012.

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 1 is indicated by **A1** **A1**.

The CENELEC common modifications have been implemented at the appropriate places in the text. The start and finish of each common modification is indicated in the text by tags **C** **C**.

Where a common modification has been introduced by CENELEC amendment, the tags carry the number of the amendment. For example, the common modifications introduced by CENELEC amendment A11 are indicated by **C11** **C11**.

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.

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

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Amendments/corrigenda issued since publication

Amd. No.	Date	Comments
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	31 October 2009	Implementation of IEC amendment 1:2008 with CENELEC endorsement A1:2009
	30 November 2010	Implementation of CENELEC amendment A12:2009

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**Hand-held motor-operated electric tools -
Safety
Part 2-1: Particular requirements for drills and impact drills
(IEC 60745-2-1:2003, modified)**

Outils électroportatifs à moteurs -
Sécurité
Partie 2-1: Règles particulières
pour les perceuses
(CEI 60745-2-1:2003, modifiée)

Handgeführte motorbetriebene
Elektrowerkzeuge -
Sicherheit
Teil 2-1: Besondere Anforderungen
für Bohrmaschinen und
Schlagbohrmaschinen
(IEC 60745-2-1:2003, modifiziert)

This European Standard was approved by CENELEC on 2002-12-01. 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Lithuania, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

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Foreword

The text of the International Standard IEC 60745-2-1:2003, prepared by SC 61F, Safety of hand-held motor-operated electric tools, of IEC/TC 61, Safety of household and similar electrical appliances, together with the common modifications prepared by the Technical Committee CENELEC TC 61F, Safety of hand-held and transportable motor-operated electric tools, was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 60745-2-1 on 2002-12-01.

This European Standard supersedes EN 50144-2-1:1999 and EN 50260-2-1:2002.

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) 2004-03-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2005-12-01

Other standards referred to in this European standard are listed in Clause 2. Clause 2 lists the valid edition of those documents at the time of issue of this EN.

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. See Annex ZZ.

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.

CEN/TC 255 is producing standards for non-electric drills and tappers (EN 792-3) and for non-electric rotary percussive tools (EN 792-5).

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 2-1 is to be used in conjunction with EN 60745-1:2006. 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.

Subclauses, tables and figures which are additional to those in IEC 60745-2-1 are prefixed "Z".

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

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

Foreword to amendment A11

This amendment to the European Standard EN 60745-2-1:2003 was prepared by the Technical Committee CENELEC TC 61F, Safety of hand-held and transportable motor-operated electric tools. The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as amendment A11 to EN 607445-2-1:2003 on 2006-07-01.

This amendment was prepared to align Subclause 6.2 with the new Subclause 6.2 in EN 60745-1:2006. Moreover, vibration values determined with the new 6.2 are complying with the requirements of the Physical Agents Directive Vibration 2002/44/EC.

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) 2007-07-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2007-07-01

Foreword to amendment A1

The text of document 61F/731/FDIS future amendment 1 to IEC 60745-2-1:2003, prepared by SC 61F (transformed into 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 60745-2-1:2003 on 2009-04-22.

With this amendment, this Part 2 is established on the basis of EN 60745-1:2006.

Main changes include editorial modifications to match with EN 60745-1:2006 and the addition of a new safety warning to Clause 8: Marking and instructions.

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) 2010-02-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2012-05-01

Endorsement notice

The text of amendment 1:2008 to the International Standard IEC 60745-2-1:2003 was approved by CENELEC as an amendment to the European Standard without any modification.

Foreword to amendment A12

This amendment to the European Standard EN 60745-2-1:2003 was prepared by the Technical Committee CENELEC TC 116 (former TC 61F), Safety of hand-held motor-operated electric tools. It was drafted to extend Annex ZZ to include the new MD 2006/42/EC.

The text of the draft was submitted to the formal vote (as FprAD) and was approved by CENELEC as amendment A12 to EN 60745-2-1:2003 on 2009-11-17.

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) 2010-06-01
- latest date by which the national standards conflicting
with the amendment have to be withdrawn (dow) 2010-06-01

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 Annexes ZZA and ZZB.

This amendment A12:2009 enables Part 2-1 to be used in conjunction with EN 60745-1:2009.

Annexes ZZA and ZZB have been added by CENELEC.

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