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Standards

Irish Standard  
I.S. EN 60745-1:2006

# Hand-held motor-operated electric tools - Safety -- Part 1: General requirements (IEC 60745-1:2006 (MOD))

## I.S. EN 60745-1:2006

*Incorporating amendments/corrigenda issued since publication:*

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Údarás um Chaighdeáin Náisiúnta na hÉireann

EUROPEAN STANDARD

**EN 60745-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2006

ICS 25.140.20

Supersedes EN 60745-1:2003 + A1:2003

English version

**Hand-held motor-operated electric tools -  
Safety**

**Part 1: General requirements**  
(IEC 60745-1:2006, modified)

Outils électroportatifs à moteur -  
Sécurité  
Partie 1: Règles générales  
(CEI 60745-1:2006, modifiée)

Handgeführte motorbetriebene  
Elektrowerkzeuge -  
Sicherheit  
Teil 1: Allgemeine Anforderungen  
(IEC 60745-1:2006, modifiziert)

This European Standard was approved by CENELEC on 2006-06-01. 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, 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: rue de Stassart 35, B - 1050 Brussels**

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### Foreword

The text of document 61F/632/FDIS, future edition 4 of IEC 60745-1, prepared by SC 61F, Safety of hand-held motor-operated electric tools, of IEC TC 61, Safety of household and similar electrical appliances, was submitted to the IEC-CENELEC parallel vote.

A draft amendment, prepared by the Technical Committee CENELEC TC 61F, Safety of hand-held and transportable motor-operated electric tools, was submitted to the formal vote.

The combined texts were approved by CENELEC as EN 60745-1 on 2006-06-01.

This European Standard supersedes EN 60745-1:2003 + A1:2003.

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) 2007-06-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2009-06-01

This European Standard has been prepared under a mandate given to CEN and CENELEC by the European Commission and the European Free Trade Association and covers essential health and safety requirements of the Machinery Directive.

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

A relevant Part 2 is one in which the type of the tool or an accessory which is to be used with the tool is within the scope of that Part 2.

When a relevant Part 2 does not exist, Part 1 can help to establish the requirements for the tool, but will not by itself provide a means of conforming to the relevant essential health and safety requirements of the Machinery Directive.

Other standards referred to in this European Standard are also listed in Clause 2, which gives the valid edition of those documents at the time of issue of this EN.

CEN Technical Committees have produced a range of standards dealing with a similar range of non-electrically powered tools. Where necessary normative references are made to these standards in the relevant Part 2.

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

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.

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

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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### Endorsement notice

The text of the International Standard IEC 60745-1:2006 was approved by CENELEC as a European Standard with agreed common modifications as given below.

#### COMMON MODIFICATIONS

## 2 Normative references

*Add the following normative references:*

CR 1030-1:1995, *Hand-arm vibration – Guidelines for vibration hazards reduction – Part 1: Engineering methods by design of machinery*

EN 12096:1997, *Mechanical vibration - Declaration and verification of vibration emission values*

EN 27574-4:1988, *Acoustics - Statistical methods for determining and verifying stated noise emission values of machinery and equipment - Part 4: Methods for stated values for batches of machines* (ISO 7574-4:1985)

EN ISO 8041:2005, *Human response to vibration - Measuring instrumentation* (ISO 8041:2005)

EN ISO 3744:1995, *Acoustics - Determination of sound power levels of noise sources using sound pressure - Engineering method in an essentially free field over a reflecting plane* (ISO 3744:1994)

EN ISO 4871:1996, *Acoustics - Declaration and verification of noise emission values of machinery and equipment* (ISO 4871:1996)

EN ISO 5349 (all parts), *Mechanical vibration -- Measurement and evaluation of human exposure to hand-transmitted vibration* (ISO 5349 all parts)

EN ISO 11203:1995, *Acoustics - Noise emitted by machinery and equipment - Determination of emission sound pressure levels at a work station and at other specified positions from the sound power level* (ISO 11203:1995)

EN ISO 11688-1:1998, *Acoustics - Recommended practice for the design of low noise machinery and equipment - Part 1: Planning* (ISO/IR 11688-1:1995)

EN ISO 11690-3:1998, *Acoustics - Recommended practice for the design of low-noise workplaces containing machinery - Part 3: Sound propagation and noise prediction in workrooms* (ISO/TR 11690-3:1997)

EN ISO 20643:2005, *Mechanical vibration - Hand-held and hand-guided machinery - Principles for evaluation of vibration emission* (ISO 20643:2005)

ISO 5347 (all parts), *Methods for the calibration of vibration and shock pick-ups*

ISO 16063-1:1998, *Methods for the calibration of vibration and shock transducers - Part 1: Basic concepts*

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