

BS EN 60745-2-16:2010



BSI Standards Publication

Hand-held motor-operated electric tools — Safety

Part 2-16: Particular requirements for tackers

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National foreword

This British Standard is the UK implementation of EN 60745-2-16:2010. It was derived from IEC 60745-2-16:2008. It supersedes BS EN 50144-2-16:2003, which will be withdrawn on 1 October 2013.

The CENELEC common modifications have been implemented at the appropriate places in the text and are indicated by tags (e.g. **C** **C1**).

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

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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 31 May 2011.

Amendments issued since publication

Amd. No.	Date	Text affected
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English version

**Hand-held motor-operated electric tools -
Safety -
Part 2-16: Particular requirements for tackers**
(IEC 60745-2-16:2008, modified)

Outils électroportatifs à moteur -
Sécurité -
Partie 2-16: Règles particulières pour les
agrafeuses
(CEI 60745-2-16:2008, modifiée)

Handgeführte motorbetriebene
Elektrowerkzeuge -
Sicherheit -
Teil 2-16: Besondere Anforderungen für
Tacker
(IEC 60745-2-16:2008, modifiziert)

This European Standard was approved by CENELEC on 2010-10-01. 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.

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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 60745-2-16:2008, prepared by TC 116, Safety of hand-held motor-operated electric tools, together with common modifications prepared by the Technical Committee CENELEC TC 116, Safety of motor-operated electric tools, was submitted to the formal vote and was approved by CENELEC as EN 60745-2-16 on 2010-10-01.

These common modifications are proposed to bring the European Standard in line with the essential health and safety requirements of the Machinery Directive.

This European Standard supersedes EN 50144-2-16:2003.

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 EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2011-10-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2013-10-01

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 Mandate M/396 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 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 standard follows the overall requirements of EN ISO 12100-1 and EN ISO 12100-2.

This Part 2-16 is to be used in conjunction with EN 60745-1. 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 60745-2-16 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.

Endorsement notice

The text of the International Standard IEC 60745-2-16:2008 was approved by CENELEC as a European Standard with agreed common modifications.

HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS – SAFETY –

Part 2-16: Particular requirements for tackers

1 Scope

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

Addition:

This standard applies to tackers intended for general use. This standard does not apply to tackers intended for industrial production applications.

2 Normative references

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

Additional normative references:

EN 28662-1:1992, Hand-held portable power tools – Measurement of vibrations at the handle – Part 1: General (ISO 8662-1:1988)

EN 61672-1:2003, Electroacoustics - Sound level meters - Part 1: Specifications (IEC 61672-1:2002)

EN ISO 11201:1995 ¹⁾, Acoustics - Noise emitted by machinery and equipment – Measurement of emission sound pressure levels at a work station and at other specified positions – Engineering method in an essentially free field over a reflecting plane (ISO 11201:1995)

CEN ISO/TS 15694:2004, Mechanical vibration and shock - Measurement and evaluation of single shocks transmitted from hand-held and hand-guided machines to the hand-arm system (ISO/TS 15694:2004) ☐

3 Terms and definitions

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

3.101

tacker

tool in which energy is applied to loaded fasteners, e.g. metal pins, nails or staples, for the purpose of driving the latter into wood, plastic, fabric or similar material

3.102

actuation system

use of a trigger, workpiece contact and/or other operating control, separately or in some combination or sequence, to actuate the tool

3.103

single sequential actuation

actuation system in which there is more than one operating control to be activated in a specific sequence to actuate the tool. Additional actuation is possible, when a specific operating control, other than a workpiece contact, is released and re-activated

3.104

full sequential actuation

actuation system in which there is more than one operating control to be activated in a specific sequence to actuate the tool. Additional actuation is only possible, when all operating controls are released and re-activated in the same sequence

¹⁾ Superseded by EN ISO 11201:2009 “Acoustics - Noise emitted by machinery and equipment - Measurement of emission sound pressure levels at a work station and at other specified positions - Engineering method in an essentially free field over a reflecting plane” (ISO 11201:2005 + corr.1:1997).

3.105

contact actuation

actuation system in which there is more than one operating control and the operating controls can be activated in any sequence to actuate the tool. Additional actuation is possible, when any operating control is released and re-activated

3.106

selective actuation

actuation system that allows discrete selection of two or more of the following actuation systems: single sequential actuation, full sequential actuation or contact actuation. One or more of the selections is single sequential actuation or full sequential actuation

3.107

automatic reversion actuation

actuation system with more than one operating control that can be activated in any sequence to actuate the tool. Regardless of the initial sequence, the actuation system is designed to automatically revert to single sequential actuation, full sequential actuation, neutral or off

3.108

actuate

to cause movement of the tool component(s) intended to drive a fastener

3.109

operating control

control that separately, or as part of an actuation system, is able to cause the actuation of a tool

3.110

workpiece contact

operating control element or assembly on the tool intended to be activated by the material to be fastened

4 General requirements

This clause of Part 1 is applicable.

5 General conditions for the tests

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

5.101 *Tests that are to be conducted by operating the tool without fasteners may subject the tool to abnormal stresses. In order to avoid this, a suitable test fixture may be supplied or a different method of operation suggested.*

6 Environmental requirements

This clause of Part 1 is applicable except as follows:

6.1 Noise

Modification:

All sound pressure levels and sound power levels in 6.1 shall be regarded and measured as single event sound pressure levels and single event sound power levels, normalized to 1 s. 