

**BS EN 62841-2-2:2014**

*Incorporating corrigenda October 2015*



**BSI Standards Publication**

# **Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery — Safety**

Part 2-2: Particular requirements for  
hand-held screwdrivers and impact  
wrenches

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### National foreword

This British Standard is the UK implementation of EN 62841-2-2:2014. It is identical to IEC 62841-2-2:2014, incorporating corrigendum October 2015. It supersedes BS EN 60745-2-2:2010 which will be withdrawn on 21 August 2019.

NOTE: The BS EN 62841 series supersedes the BS EN 60745 series, the BS EN 61029 series and parts of the BS EN 60335 series (for lawn and garden machinery). BS EN 62841-1:2015 supersedes BS EN 60745-1:2009 and BS EN 61029-1:2009. A withdrawal date for BS EN 60745-1:2009 and BS EN 61029-1:2009 will be fixed upon publication of all standards in the BS EN 62841-2 and BS EN 62841-3 series.

The UK participation in its preparation was entrusted to Technical Committee CPL/116, Safety of motor-operated electric 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.

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### Amendments/corrigenda issued since publication

Date	Text affected
31 October 2015	Correction to supersession details in national foreword
29 February 2016	Implementation of IEC corrigendum October 2015: Table 4 corrected

EUROPEAN STANDARD

**EN 62841-2-2**

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2014

ICS 25.140.20

Supersedes EN 60745-2-2:2010

English Version

**Electric motor-operated hand-held tools, transportable tools and  
lawn and garden machinery - Safety - Part 2-2: Particular  
requirements for hand-held screwdrivers and impact wrenches  
(IEC 62841-2-2:2014)**

Outils électroportatifs à moteur, outils portables et machines  
pour jardins et pelouses - Sécurité - Partie 2-2: Règles  
particulières pour les visseuses et les clés à chocs  
portatives  
(CEI 62841-2-2:2014)

Elektrische motorbetriebene handgeführte Werkzeuge,  
transportable Werkzeuge und Rasen- und  
Gartenmaschinen - Sicherheit - Teil 2-2: Besondere  
Anforderungen für handgeführte Schrauber und  
Schlagschrauber  
(IEC 62841-2-2:2014)

This European Standard was approved by CENELEC on 2014-06-26. 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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

## Foreword

The text of document 116/162/FDIS, future edition 1 of IEC 62841-2-2, prepared by IEC/TC 116 "Safety of motor-operated electric tools" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62841-2-2:2014.

A draft amendment, which covers common modifications to IEC 62841-2-2:2014, was prepared by CLC/TC 116 "Safety of motor-operated electric tools" and approved by CENELEC.

The following dates are fixed:

- latest date by which this document has to be implemented (dop) 2015-06-26  
at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting (dow) 2018-06-26  
with this document have to be withdrawn

This document supersedes EN 60745-2-2:2010.

This European Standard is divided into four 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, 3 or 4: 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 Part 2 is to be used in conjunction with EN 62841-1:201X.

This Part 2 supplements or modifies the corresponding clauses in EN 62841-1:201X, so as to convert it into the European Standard: Particular requirements for hand-held screwdrivers and impact wrenches.

Where a particular subclause of Part 1 is not mentioned in this Part 2, that subclause applies as far as reasonable. When this standard states "addition", "modification" or "replacement", the relevant text in Part 1 is to be adapted accordingly.

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 EU 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.

The following print types are used:

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

The terms defined in Clause 3 are printed in **bold typeface**.

Subclauses, notes, tables and figures which are additional to those in Part 1 are numbered starting from 101.

Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62841-2-2:2014 are prefixed "Z".

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

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(s).

For the relationship with EU Directive(s), see informative Annex ZZ, which is an integral part of this document.

## **Annex ZA** (normative)

### **Normative references to international publications with their corresponding European publications**

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

This annex from Part 1 is applicable with the following addition:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO 28927-2	2009	Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 2: Wrenches, nutrunners and screwdrivers	EN ISO 28927-2	2009

## **Annex ZZ** (informative)

### **Coverage of Essential Requirements of Directive 2006/42/EC**

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and within its scope the standard covers all relevant Essential Requirements as given in EU Directive 2006/42/EC (Machinery Directive).

Compliance with this standard provides one means of conformity with the specified essential requirements of the Directives concerned.

**WARNING:** Other requirements and other EU Directives may be applicable to the products falling within the scope of this standard.

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# ELECTRIC MOTOR-OPERATED HAND-HELD TOOLS, TRANSPORTABLE TOOLS AND LAWN AND GARDEN MACHINERY – SAFETY –

## Part 2-2: Particular requirements for hand-held screwdrivers and impact wrenches

### 1 Scope

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

*Addition:*

This part of IEC 62841 applies to **screwdrivers** and **impact wrenches**.

This standard does not apply to drills that can be used for driving screws by attaching **screwdriver** bits.

### 2 Normative references

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

*Addition:*

ISO 28927-2:2009, *Hand-held portable power tools – Test methods for evaluation of vibration emission – Part 2: Wrenches, nutrunners and screwdrivers*

### 3 Terms and definitions

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

Additional definitions:

#### 3.101

##### **screwdriver**

tool equipped with a non-circular tool holder, such as hexagonal or square, intended for tightening and loosening screws, nuts, and the like and not equipped with an impact mechanism but which may have a device for depth setting or setting the torque or means for switching off the rotation

#### 3.102

##### **impact wrench**

tool equipped with a non-circular tool holder, such as hexagonal or square, intended for tightening and loosening screws, nuts, and the like and equipped with a rotary impact mechanism

Note 1 to entry: Some **impact wrenches** are equipped with a means for depth setting and may have a means for setting the torque or switching off the rotation.