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NSAI Standards

Irish Standard
I.S. EN 62841-2-1:2018

Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-1: Particular requirements for hand-held drills and impact drills

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I.S. EN 62841-2-1:2018

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This document is based on:	*Published:*
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National Foreword

I.S. EN 62841-2-1:2018 is the adopted Irish version of the European Document EN 62841-2-1:2018, Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-1: Particular requirements for hand-held drills and impact drills

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 62841-2-1

January 2018

ICS 25.140.20

Supersedes EN 60745-2-1:2010

English Version

Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-1: Particular requirements for hand-held drills and impact drills (IEC 62841-2-1:2017 , modified)

Outils électroportatifs à moteur, outils portables et machines pour jardins et pelouses - Sécurité - Partie 2-1: Exigences particulières pour les perceuses portatives et les perceuses à percussion
(IEC 62841-2-1:2017 , modifiée)

Elektrische Motorbetriebene handgeführte Werkzeuge, transportable Werkzeuge und Rasen- und Gartenmaschinen - Sicherheit - Teil 2-1: Besondere Anforderungen für handgeführte Bohrmaschinen und Schlagbohrmaschinen
(IEC 62841-2-1:2017 , modifiziert)

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European foreword

The text of document 116/321/FDIS, future edition 1 of IEC 62841-2-1, 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 62841-2-1:2018.

A draft amendment, which covers common modifications to IEC 62841-2-1 (116/321/FDIS), 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 at national level by publication of an identical national standard or by endorsement (dop) 2018-07-19
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2022-01-19

This document supersedes EN 60745-2-1:2010.

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 2-1 is to be used in conjunction with EN 62841-1:2015.

This Part 2-1 supplements or modifies the corresponding clauses in EN 62841-1:2015, so as to convert it into the European Standard: Particular requirements for hand-held drills and impact drills.

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

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 62841-2-1:2017 are prefixed “Z”.

This European Standard follows the overall requirements of EN ISO 12100.

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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.

Compliance with the clauses of Part 1 together with this Part 2-1 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.

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The text of the International Standard IEC 62841-2-1:2017 was approved by CENELEC as a European Standard with agreed common modifications.

COMMON MODIFICATIONS

Replace *the title of Annex I by the following:*

Annex I
(normative)

Measurement of noise and vibration emissions

And ***delete*** *the note.*

Add *the following annexes:*

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Annex ZA of EN 62841-1:2015 is applicable, except as follows:

Publication	Year	Title	EN/HD	Year
Addition:				
ISO 185	2005	Grey cast irons - Classification	-	-
ISO 630-2	2011	Structural steels - Part 2: Technical delivery conditions for structural steels for general purposes	-	-

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Annex ZZ
(informative)

Relationship between this European Standard and the essential requirements of Directive 2006/42/EC [2006 OJ L157] aimed to be covered

This European Standard has been prepared under a Commission's standardization request M/396 to provide one voluntary means of conforming to essential requirements of Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC.

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZZ.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive, and associated EFTA regulations.

Table ZZ.1 – Correspondence between this European Standard and Annex I of Directive 2006/42/EC

Essential Requirements of Directive 2006/42/EC	Clause(s) / sub-clause(s) of this EN	Remarks / Notes
Annex I	All clauses	All corresponding requirements are covered by complying with all clauses.

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IEC 62841-2-1

Edition 1.0 2017-06

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Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety –
Part 2-1: Particular requirements for hand-held drills and impact drills

Outils électroportatifs à moteur, outils portables et machines pour jardins et pelouses – Sécurité –
Partie 2-1: Exigences particulières pour les perceuses portatives et les perceuses à percussion

IEC 62841-2-1:2017-05(en-fr)

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IEC 62841-2-1

Edition 1.0 2017-06

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Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 2-1: Particular requirements for hand-held drills and impact drills

Outils électroportatifs à moteur, outils portables et machines pour jardins et pelouses – Sécurité – Partie 2-1: Exigences particulières pour les perceuses portatives et les perceuses à percussion

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CONTENTS

FOREWORD 4
1 Scope 6
2 Normative references 6
3 Terms and definitions 6
4 General requirements 7
5 General conditions for the tests 7
6 Radiation, toxicity and similar hazards 7
7 Classification 7
8 Marking and instructions 7
9 Protection against access to live parts 8
10 Starting 8
11 Input and current 8
12 Heating 8
13 Resistance to heat and fire 9
14 Moisture resistance 9
15 Resistance to rusting 9
16 Overload protection of transformers and associated circuits 9
17 Endurance 9
18 Abnormal operation 10
19 Mechanical hazards 11
20 Mechanical strength 13
21 Construction 13
22 Internal wiring 13
23 Components 13
24 Supply connection and external flexible cords 14
25 Terminals for external conductors 14
26 Provision for earthing 14
27 Screws and connections 14
28 Creepage distances, clearances and distances through insulation 14
Annexes 24
Annex I (informative) Measurement of noise and vibration emissions 24
Annex K (normative) Battery tools and battery packs 31
Annex L (normative) Battery tools and battery packs provided with mains connection or non-isolated sources 35
Bibliography 36

Figure 101 – Example of a testing apparatus 15
Figure 102 – Locating point “S” on different power switch and handle designs 16
Figure 103 – Locating point “F” on different flange designs 17
Figure 104 – Reaction torque measurement of single handle tools (1) 18
Figure 105 – Reaction torque measurement of single handle tools (2) 19
Figure 106 – Reaction torque measurement of multi handle tools (1) 20

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Figure 107 – Reaction torque measurement of multi handle tools (2) 21
Figure 108 – Example torque of a tool with a stable signal region 22
Figure 109 – Example torque of a tool without a stable signal region 22
Figure 110 – Example torque of a tool with an overload clutch 23
Figure I.101 – Application of load 29
Figure I.102 – Positions of transducers for drills and impact drills 30
Figure I.103 – Positions of transducers for diamond core drills 30

Table 4 – Required performance levels 10
Table I.101 – Concrete formulation for impact drills (per cubic metre) 25
Table I.102 – Noise test conditions for impact drills 25
Table I.103 – Vibration test conditions for drills 26
Table I.104 – Drill bit diameter and feed force for drills 26
Table I.105 – Vibration test conditions for impact drills 26
Table I.106 – Vibration test conditions for diamond core drills 27
Table I.107 – Concrete formulation for diamond core drills (per cubic metre) 28
Table 4 – Required performance levels 32

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

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

FOREWORD

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International Standard IEC 62841-2-1 has been prepared by IEC technical committee 116: Safety of motor-operated electric tools.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
116/321/FDIS	116/330/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

This Part 2-1 is to be used in conjunction with the first edition of IEC 62841-1 (2014).

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This Part 2-1 supplements or modifies the corresponding clauses in IEC 62841-1, so as to convert it into the IEC Standard: Particular requirements for hand-held drills and impact drills.

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

The following print types are used:

– requirements: in roman type;
– *test specifications: in italic type;*
– notes: in small roman type.

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

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

A list of all parts of the IEC 62841 series, under the general title: *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific document. At this date, the document will be

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- withdrawn,
- replaced by a revised edition, or
- amended.

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

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

1 Scope

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

Addition:

This part of IEC 62841 applies to hand-held **drills** and **impact drills**, including **diamond core drills**. This standard also applies to **drills** that can be used for driving screws by attaching screwdriver bits.

This standard does not apply to rotary hammers, even if they can be used as a **drill**.

NOTE 101 Rotary hammers are covered by IEC 62841-2-6.

2 Normative references

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

Addition:

ISO 185:2005, *Grey cast irons – Classification*

ISO 630-2:2011, *Structural steels – Part 2: Technical delivery conditions for structural steels for general purposes*

3 Terms and definitions

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

Additional definitions:

3.101
drill
tool equipped with either a typical three jaw chuck or a machine taper, specifically designed to bore holes in various materials such as metal, plastics, wood, etc.

Note 1 to entry: Besides drill bits, it is possible that other **accessories** such as bits for deburring and screwdriving are used with **drills**.

3.102
impact drill
tool equipped with a chuck specifically designed to bore holes in concrete, stone and other materials, being similar in appearance and construction, to a **drill**, but which has a built-in percussion system which gives an axial percussion movement to rotating output spindle

Note 1 to entry: Some **impact drills** have a device for rendering the percussion system inoperative, so that they can be used as a conventional **drill**.

Note 2 to entry: Besides drill bits, it is possible that other **accessories** such as bits for deburring and screwdriving are used with **impact drills**.

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