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Standards

Irish Standard
I.S. EN 62841-2-5:2014

Electric motor-operated hand-held tools,
transportable tools and lawn and garden
machinery - Safety - Part 2-5: Particular
requirements for hand-held circular saws

I.S. EN 62841-2-5:2014

Incorporating amendments/corrigenda/National Annexes issued since publication:

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This document is based on:

EN 62841-2-5:2014

Published:

2014-08-22

This document was published under the authority of the NSAI and comes into effect on:

2014-09-09

ICS number:

25.140.20

NOTE: If blank see CEN/CENELEC cover page

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EUROPEAN STANDARD

EN 62841-2-5

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2014

ICS 25.140.20

Supersedes EN 60745-2-5:2010

English Version

**Electric motor-operated hand-held tools, transportable tools and
lawn and garden machinery - Safety - Part 2-5: Particular
requirements for hand-held circular saws
(IEC 62841-2-5:2014, modified)**

Outils électroportatifs à moteur, outils transportables et
machines pour jardins et pelouses - Sécurité - Partie 2-5:
Exigences particulières pour les scies circulaires portatives
(CEI 62841-2-5:2014, modifiée)

Elektrische motorbetriebene handgeführte Werkzeuge,
transportable Werkzeuge und Rasen- und
Gartenmaschinen - Sicherheit - Teil 2-5: Besondere
Anforderungen für handgeführte Kreissägen
(IEC 62841-2-5:2014, modifiziert)

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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 116/166/FDIS, future edition 1 of IEC 62841-2-5, 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 62841-2-5:2014.

A draft amendment, which covers common modifications to IEC 62841-2-5:2014, 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 (dop) 2015-05-05 has to be implemented at national level by publication of an identical national standard or by endorsement
- latest date by which the national (dow) 2018-05-05 standards conflicting with this document have to be withdrawn

EN 62841-2-5:2014 supersedes EN 60745-2-5:2010.

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.

Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62841-2-5 are prefixed "Z".

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

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 2-5 is to be used in conjunction with EN 62841-1:201X¹⁾. 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 2-5 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.

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.

Words in **bold** in the text are defined in Clause 3. When a definition concerns an adjective, the adjective and the associated noun are also in bold.

1) At draft stage.

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.

COMMON MODIFICATIONS

2 Normative references

Add the following normative reference:

EN 847-1, *Tools for woodworking - Safety requirements - Part 1: Milling tools, circular saw blade*

8 Marking and instructions

8.14.2 a):

Add the following new item:

Z101) Instruction to use only saw blades recommended by the manufacturer, which conform to EN 847-1, if intended for wood and analogous materials;

21 Construction

Add the following new subclause:

21.Z101 If a saw blade intended for cutting wood and analogous materials is provided with the tool, it shall comply with EN 847-1.

Replace the title of Annex I by the following:

Annex I
(normative)

Measurement of noise and vibration emissions

Add the following annex:

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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IEC 62841-2-5

Edition 1.0 2014-06

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety –
Part 2-5: Particular requirements for hand-held circular saws**

**Outils électroportatifs à moteur, outils transportables et machines pour jardins et pelouses – Sécurité –
Partie 2-5: Exigences particulières pour les scies circulaires portatives**





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IEC 62841-2-5

Edition 1.0 2014-06

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety –
Part 2-5: Particular requirements for hand-held circular saws**

**Outils électroportatifs à moteur, outils transportables et machines pour jardins et pelouses – Sécurité –
Partie 2-5: Exigences particulières pour les scies circulaires portatives**

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PRICE CODE
CODE PRIX



ICS 25.140.20

ISBN 978-2-8322-1634-7

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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	8
6 Radiation, toxicity and similar hazards.....	8
7 Classification.....	8
8 Marking and instructions.....	8
9 Protection against access to live parts.....	11
10 Starting	11
11 Input and current	11
12 Heating.....	11
13 Resistance to heat and fire.....	12
14 Moisture resistance	12
15 Resistance to rusting.....	12
16 Overload protection of transformers and associated circuits	12
17 Endurance.....	12
18 Abnormal operation	14
19 Mechanical hazards.....	15
20 Mechanical strength	20
21 Construction	21
22 Internal wiring.....	22
23 Components	22
24 Supply connection and external flexible cords	22
25 Terminals for external conductors.....	22
26 Provision for earthing	22
27 Screws and connections	22
28 Creepage distances, clearances and distances through insulation.....	22
Annexes	33
Annex I (informative) Measurement of noise and vibration emissions.....	33
Annex K (normative) Battery tools and battery packs	36
Annex AA (normative) Additional requirements for saws with a riving knife	37
Annex BB (normative) Additional requirements for lower guards for saws without a riving knife.....	40
Bibliography.....	41
Figure 101 – Circular saw with outer pendulum guard.....	23
Figure 102 – Circular saw with inner pendulum guard	23
Figure 103 – Circular saw with tow guard.....	23
Figure 104 – Plunge type saw.....	23

Figure 105 – Test probe 'a'	24
Figure 106 – Use of test probe 'a' on circular saw guards	25
Figure 107 – Distance from the gripping surface to the blade's cutting edge zone	27
Figure 108 – Height restriction of the viewing aperture (see 19.101.2.2)	28
Figure 109 – Distance from the edge of the lateral side of the upper guard to the base plate	29
Figure 110 – Test probe 'b'	29
Figure 111 – Accessibility to the front cutting edge zone	30
Figure 112 – Blade exposure angle of the lower guard	31
Figure 113 – Principal dimensions of the base plate	31
Figure 114 – Flange characteristics	32
Figure I.101 – Position of transducers for circular saws	35
Figure AA.101 – Riving knife stability test	39
Figure AA.102 – Riving knife adjustment	39
Table 4 – Required performance levels	14
Table 101 – Lower guard exposure angle	18
Table I.101 – Operating conditions for circular saws cutting wood	33
Table I.102 – Operating conditions for circular saws cutting metal	34

INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTRIC MOTOR-OPERATED HAND-HELD TOOLS, TRANSPORTABLE TOOLS AND LAWN AND GARDEN MACHINERY – SAFETY –
Part 2-5: Particular requirements for hand-held circular saws

FOREWORD

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International Standard IEC 62841-2-5 has been prepared by IEC technical committee 116: Safety of motor-operated electric tools.

The text of this standard is based on the following documents:

FDIS	Report on voting
116/166/FDIS	116/180/RVD

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

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

This Part 2-5 is to be used in conjunction with the first edition of IEC 62841-1 (2014).

This Part 2-5 supplements or modifies the corresponding clauses in IEC 62841-1, so as to convert it into the IEC Standard: Particular requirements for hand-held circular saws.

Where a particular subclause of Part 1 is not mentioned in this Part 2-5, that subclause applies as far as reasonable. 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 publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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

NOTE The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations may need a transitional period following publication of a new, amended or revised IEC publication in which to make products in accordance with the new requirements and to equip themselves for conducting new or revised tests.

It is the recommendation of the committee that the content of this publication be adopted for implementation nationally not earlier than 36 months from the date of publication.

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

Part 2-5: Particular requirements for hand-held circular saws

1 Scope

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

Addition:

This part of IEC 62841 applies to hand-held **circular saws**, which hereinafter will be referred to as saws.

This standard does not apply to saws designed for use with abrasive wheels.

NOTE Saws designed for use with abrasive wheels as cut-off machines are covered by IEC 62841-2-22.

2 Normative references

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

Addition:

NOTE In Europe (EN 62841-2-5), the following normative reference applies:

EN 847-1, *Tools for woodworking - Safety requirements - Part 1: Milling tools, circular saw blade*

3 Terms and definitions

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

Addition:

3.101

base plate

part supporting the saw on the material being cut (see Figure 113)

3.102

bevel angle

angular displacement of the saw blade plane with respect to the **base plate** plane, the position of the saw blade plane that is perpendicular to the **base plate** being the 0° bevel position

3.103

circular saw

tool intended for cutting various materials with a rotating toothed blade

3.104

cutting edge zone

outer 20 % of the blade's radius

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