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Standards

Irish Standard

I.S. EN IEC 62841-3-9:2020&A11:2020

Electric motor-operated hand-held tools,
transportable tools and lawn and garden
machinery - Safety - Part 3-9: Particular
requirements for transportable mitre saws

I.S. EN IEC 62841-3-9:2020&A11:2020

Incorporating amendments/corrigenda/National Annexes issued since publication:

EN IEC 62841-3-9:2020/A11:2020

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EN IEC 62841-3-9:2020

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National Foreword

I.S. EN IEC 62841-3-9:2020&A11:2020 is the adopted Irish version of the European Document EN IEC 62841-3-9:2020, Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-9: Particular requirements for transportable mitre saws

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EUROPEAN STANDARD
NORME EUROPÉENNE
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EN IEC 62841-3-9:2020/A11

June 2020

ICS 25.140.20

English Version

**Electric motor-operated hand-held tools, transportable tools and
lawn and garden machinery - Safety - Part 3-9: Particular
requirements for transportable mitre saws**

Outils électroportatifs à moteur, outils portables et machines
pour jardins et pelouses - Sécurité - Partie 3-9: Exigences
particulières pour les scies à onglets transportables

Elektrische motorbetriebene handgeführte Werkzeuge,
transportable Werkzeuge und Rasen- und
Gartenmaschinen - Sicherheit - Teil 3-9: Besondere
Anforderungen für transportable Gehrungskappsägen

This amendment A11 modifies the European Standard EN IEC 62841-3-9:2020; it was approved by CENELEC on 2020-04-20. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 amendment 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 62841-3-9:2020/A11:2020 (E)

European foreword

This document (EN IEC 62841-3-9:2020/A11:2020) was prepared by CLC/TC 116 "Safety of motor-operated electric tools".

The following dates are fixed:

- latest date by which this document has (dop) 2021-04-20
to be implemented at national level by
publication of an identical national
standard or by endorsement
- latest date by which the national (dow) 2024-04-20
standards conflicting with this document
have to be withdrawn

This document modifies by common modifications EN IEC 62841-3-9:2020, which consists of the text of IEC 62841-3-9, Ed.2.0 prepared by IEC/TC 116 "Safety of motor-operated electric tools".

This series 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 3-9 is to be used in conjunction with EN 62841-1:2015.

This Part 3-9 supplements or modifies the corresponding clauses in EN 62841-1:2015, so as to convert it into the European Standard: Particular requirements for transportable mitre saws.

Where a particular subclause of Part 1 is not mentioned in this Part 3-9, 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 62841-3-9:2020 are prefixed "Z".

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

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 3-9 provides one means of conforming with the essential health and safety requirements of the Directive concerned.

1 Modification to Clause 1, “Scope”

Add after the first paragraph:

“This document applies to transportable **mitre saws** having a mass of:

- maximum 25 kg for tools capable of being lifted by hand by one person;
- maximum 50 kg for tools capable of being lifted by hand by two persons.

This document does not apply to stationary **mitre saws**.

NOTE Z101 EN 1870-3 gives requirements for stationary **mitre saws** and **mitre saws** with a mass greater than indicated above.”

Add after the last paragraph:

“This document covers all significant hazards, hazardous situations or hazardous events relevant for machines covered by this document.

NOTE Z102 Essential requirements not mentioned in Table ZZ.1 are deemed to be not applicable, because the corresponding hazards are either not relevant for machines covered by this standard or do not require specific action by the designer.”

2 Modification to Clause 2, “Normative references”

Add the following normative reference:

EN 847-1:2017, *Tools for woodworking - Safety requirements - Part 1: Milling tools, circular saw blades*

3 Modification to Clause 8, “Marking and instructions”

Replace the last sentence in 8.3 with the following:

“This symbol needs not be in accordance with the colour requirements of ISO 3864-2:2016.”

Add the following new item to 8.14.2 a):

“Z101) Instruction to use only saw blades recommended by the manufacturer, which conform to EN 847-1:2017, if intended for wood and analogous materials.”

Add the following after 8.14.2 c):

“**8.14.2 Za)** *Replacement of items 3, 4 and 5 with the following:*

3) The following information:

- that the declared noise emission value(s) have been measured in accordance with a standard test method and may be used for comparing one tool with another;
- that the declared noise emission value(s) may also be used in a preliminary assessment of exposure.

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 62841-3-9

June 2020

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Supersedes EN 62841-3-9:2015 and all of its
amendments and corrigenda (if any)

English Version

**Electric motor-operated hand-held tools, transportable tools and
lawn and garden machinery - Safety - Part 3-9: Particular
requirements for transportable mitre saws
(IEC 62841-3-9:2020)**

Outils électroportatifs à moteur, outils portables et machines
pour jardins et pelouses - Sécurité - Partie 3-9: Exigences
particulières pour les scies à onglets transportables
(IEC 62841-3-9:2020)

Elektrische motorbetriebene handgeführte Werkzeuge,
transportable Werkzeuge und Rasen- und
Gartenmaschinen - Sicherheit - Teil 3-9: Besondere
Anforderungen für transportable Gehrungskappsägen
(IEC 62841-3-9:2020)

This European Standard was approved by CENELEC on 2020-03-20. 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.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 62841-3-9:2020 (E)

European foreword

The text of document 116/430/FDIS, future edition 2 of IEC 62841-3-9, 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 IEC 62841-3-9:2020.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2021-04-20
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024-04-20

This document supersedes EN 62841-3-9:2015 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC 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 EN IEC 62841-3-9:2020/A11:2020.

Endorsement notice

The text of the International Standard IEC 62841-3-9:2020 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 62841-3-10 NOTE Harmonized as EN 62841-3-10



IEC 62841-3-9

Edition 2.0 2020-02

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Electric motor-operated hand-held tools, transportable tools and lawn
and garden machinery – Safety –
Part 3-9: Particular requirements for transportable mitre saws**

**Outils électroportatifs à moteur, outils portables et machines pour jardins
et pelouses – Sécurité –
Partie 3-9: Exigences particulières pour les scies à onglets transportables**



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IEC 62841-3-9

Edition 2.0 2020-02

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Electric motor-operated hand-held tools, transportable tools and lawn
and garden machinery – Safety –
Part 3-9: Particular requirements for transportable mitre saws**

**Outils électroportatifs à moteur, outils portables et machines pour jardins
et pelouses – Sécurité –
Partie 3-9: Exigences particulières pour les scies à onglets transportables**

INTERNATIONAL
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

Part 3-9: Particular requirements for transportable mitre saws

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 62841-3-9 has been prepared by IEC technical committee 116: Safety of motor-operated electric tools.

This second edition cancels and replaces the first edition published in 2014. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) Clause 1: Scope: increase of the maximum saw blade diameter to 410 mm;
- b) Corrigendum 1 and Corrigendum 2 of the first edition have been incorporated in this second edition.

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

FDIS	Report on voting
116/430/FDIS	116/442/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 publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

This Part 3-9 is to be used in conjunction with the IEC 62841-1:2014.

This Part 3-9 supplements or modifies the corresponding clauses in IEC 62841-1, so as to convert it into the IEC Standard: Particular requirements for transportable mitre saws.

Where a particular subclause of Part 1 is not mentioned in this Part 3-9, 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,
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- 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.

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

Part 3-9: Particular requirements for transportable mitre saws

1 Scope

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

Addition:

This part of IEC 62841 applies to transportable **mitre saws** intended to be used with a toothed saw blade for cutting wood and analogous materials, plastics and nonferrous metals except magnesium with a saw blade diameter not exceeding 410 mm, which hereinafter might simply be referred to as saw or tool.

This International Standard does not apply to **mitre saws** intended to cut other metals, such as magnesium, steel and iron. This document does not apply to **mitre saws** with an automatic feeding device.

NOTE 101 Transportable saws intended to cut ferrous metals will be covered by a future part of IEC 62841-3.

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

NOTE 102 **Transportable tools** designed for use with abrasive wheels are covered by IEC 62841-3-10.

This document does not apply to tools combining the function of a **mitre saw** with the function of a table saw.

NOTE 103 **Transportable tools** combining the function of a **mitre saw** with the function of a table saw are covered by a future part of IEC 62841-3.

2 Normative references

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

Addition:

ISO 180, *Plastics – Determination of Izod impact strength*

3 Terms and definitions

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

3.101

bevel angle

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

3.102

compound angle

angular displacement of the saw blade plane having a **bevel** and **mitre angle** other than 0°

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