

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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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

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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,
- replaced by a revised edition, or
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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°