

INTERNATIONAL STANDARD

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



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IEC 62841-2-5

Edition 1.1 2025-02
CONSOLIDATED VERSION

INTERNATIONAL STANDARD

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

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

ICS 25.140.20

ISBN 978-2-8327-0247-5

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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	12
10 Starting	12
11 Input and current	12
12 Heating	12
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	15
19 Mechanical hazards	15
20 Mechanical strength	23
21 Construction	24
22 Internal wiring	24
23 Components	25
24 Supply connection and external flexible cords	25
25 Terminals for external conductors	25
26 Provision for earthing	25
27 Screws and connections	25
28 Creepage distances, clearances and distances through insulation	25
Annexes	36
Annex I (informative) Measurement of noise and vibration emissions	36
Annex K (normative) Battery tools and battery packs	40
Annex AA (normative) Additional requirements for saws with a riving knife	41
Annex BB (normative) Additional requirements for lower guards for saws without a riving knife	44
Bibliography	45
Figure 101 – Circular saw with outer pendulum guard	26
Figure 102 – Circular saw with inner pendulum guard	26
Figure 103 – Circular saw with tow guard	26
Figure 104 – Plunge type saw	26
Figure 105 – Test probe 'a'	27

Figure 106 – Use of test probe 'a' on circular saw guards	28
Figure 107 – Distance from the gripping surface to the blade's cutting edge zone	30
Figure 108 – Height restriction of the viewing aperture (see 19.101.2.2)	31
Figure 109 – Distance from the edge of the lateral side of the upper guard to the base plate	32
Figure 110 – Test probe 'b'	32
Figure 111 – Accessibility to the front cutting edge zone	33
Figure 112 – Blade exposure angle of the lower guard	34
Figure 113 – Principal dimensions of the base plate	34
Figure 114 – Flange characteristics	35
Figure I.101 – Position of transducers for circular saws	39
Figure AA.101 – Riving knife stability test	43
Figure AA.102 – Riving knife adjustment	43
Table 4 – Required performance levels	15
Table 101 – Lower guard exposure angle	19
Table I.101 – Operating conditions for circular saws cutting wood	36
Table I.102 – Operating conditions for circular saws cutting metal	37

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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This consolidated version of the official IEC Standard and its amendment has been prepared for user convenience.

IEC 62841-2-5 edition 1.1 contains the first edition (2014-06) [documents 116/166/FDIS and 116/180/RVD] and its amendment 1 (2025-02) [documents 116/860/FDIS and 116/878/RVD].

In this Redline version, a vertical line in the margin shows where the technical content is modified by amendment 1. Additions are in green text, deletions are in strikethrough red text. A separate Final version with all changes accepted is available in this publication.

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

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 document and its amendment will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

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