

Edition 1.1 2025-02 CONSOLIDATED VERSION

INTERNATIONAL STANDARD

Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 2-17: Particular requirements for hand-held routers

INTERNATIONAL ELECTROTECHNICAL COMMISSION

ICS 25.140.20 ISBN 978-2-8327-0290-1

Warning! Make sure that you obtained this publication from an authorized distributor.

CONTENTS

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 8 14 Moisture resistance 8 15 Resistance to rusting 8 16 Overload protection of transformers and associated circuits 9 17 Endurance 9 18 Abnormal operation 9 19 Mechanical strength 11 21 Construction 11 22 Internal wiring 12 23 Components 12 24 Supply connection and external flexible cords 12 25 Terminals for external conductors 12 26 Provision for earthing 12 27 Screws and connections 12 28 Creepa	FOREWORD4				
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 8 14 Moisture resistance 8 15 Resistance to rusting 8 16 Overload protection of transformers and associated circuits 9 17 Endurance 9 18 Abnormal operation 9 19 Mechanical hazards 9 20 Mechanical strength 11 21 Construction 11 22 Internal wiring 12 23 Components 12	1	Scope	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 8 14 Moisture resistance 8 15 Resistance to rusting 8 16 Overload protection of transformers and associated circuits 9 17 Endurance 9 18 Abnormal operation 9 19 Mechanical hazards 9 19 Mechanical strength 11 20 Mechanical strength 11 21 Components 12 22 Internal wiring 12 23 Components 12 <	2	Normative references	6		
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 8 14 Moisture resistance 8 15 Resistance to rusting 8 16 Overload protection of transformers and associated circuits 9 16 Overload protection of transformers and associated circuits 9 18 Abnormal operation 9 19 Mechanical hazards 9 20 Mechanical strength 11 21 Construction 11 22 Internal wiring 12 23 Components 12 24 Supply connection and external flexible cords 12 2	3	Terms and definitions	6		
6 Radiation, toxicity and similar hazards. 7 7 Classification	4	General requirements	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 8 14 Moisture resistance 8 15 Resistance to rusting 8 16 Overload protection of transformers and associated circuits 9 17 Endurance 9 18 Abnormal operation 9 19 Mechanical strength 11 20 Mechanical strength 11 21 Construction 11 22 Internal wiring 12 23 Components 12 24 Supply connection and external flexible cords 12 25 Terminals for external conductors 12 26 Provision for earthing 12 27 Screws and connections 12 28 Creepage distances, clearances and distances through insulatio	5	General conditions for the tests	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 8 14 Moisture resistance 8 15 Resistance to rusting 8 16 Overload protection of transformers and associated circuits 9 17 Endurance 9 18 Abnormal operation 9 19 Mechanical hazards 9 20 Mechanical strength 11 21 Construction 11 22 Internal wiring 12 23 Components 12 24 Supply connection and external flexible cords 12 25 Terminals for external conductors 12 26 Provision for earthing 12 27 Screws and connections 12 28 Creepage distances, clearances and distances through insulation 12 Annexes 16	6	Radiation, toxicity and similar hazards	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 8 14 Moisture resistance 8 15 Resistance to rusting 8 16 Overload protection of transformers and associated circuits 9 17 Endurance 9 18 Abnormal operation 9 19 Mechanical hazards 9 20 Mechanical strength 11 21 Construction 11 21 Internal wiring 12 23 Components 12 24 Supply connection and external flexible cords 12 25 Terminals for external conductors 12 26 Provision for earthing 12 27 Screws and connections 12 28 Creepage distances, clearances and distances through insulation 12 Annexes	7	Classification	7		
10 Starting 8 11 Input and current 8 12 Heating 8 13 Resistance to heat and fire 8 14 Moisture resistance 8 15 Resistance to rusting 8 16 Overload protection of transformers and associated circuits 9 17 Endurance 9 18 Abnormal operation 9 19 Mechanical hazards 9 20 Mechanical strength 11 21 Construction 11 22 Internal wiring 12 23 Components 12 24 Supply connection and external flexible cords 12 25 Terminals for external conductors 12 26 Provision for earthing 12 27 Screws and connections 12 28 Creepage distances, clearances and distances through insulation 12 29 Annexes 16 Annex I (informative) Measurement of noise and vibration emissions 16 Annex K (normative) Battery tools a	8	Marking and instructions	7		
11 Input and current 8 12 Heating 8 13 Resistance to heat and fire 8 14 Moisture resistance 8 15 Resistance to rusting 8 16 Overload protection of transformers and associated circuits 9 17 Endurance 9 18 Abnormal operation 9 19 Mechanical hazards 9 20 Mechanical strength 11 21 Construction 11 22 Internal wiring 12 23 Components 12 24 Supply connection and external flexible cords 12 25 Terminals for external conductors 12 26 Provision for earthing 12 27 Screws and connections 12 28 Creepage distances, clearances and distances through insulation 12 Annex I (informative) Measurement of noise and vibration emissions 16 Annex K (normative) Battery tools and battery packs provided with mains connection or non-isolated sources 19 Annex L (normative) Battery tool	9	Protection against access to live parts	8		
12 Heating 8 13 Resistance to heat and fire 8 14 Moisture resistance 8 15 Resistance to rusting 8 16 Overload protection of transformers and associated circuits 9 17 Endurance 9 18 Abnormal operation 9 19 Mechanical hazards 9 20 Mechanical strength 11 21 Construction 11 22 Internal wiring 12 23 Components 12 24 Supply connection and external flexible cords 12 25 Terminals for external conductors 12 26 Provision for earthing 12 27 Screws and connections 12 28 Creepage distances, clearances and distances through insulation 12 Annex I (informative) Measurement of noise and vibration emissions 16 Annex I (informative) Battery tools and battery packs 19 Annex L (normative) Battery tools and battery packs provided with mains connection or non-isolated sources 20 Bibliography<	10	Starting	8		
13 Resistance to heat and fire 8 14 Moisture resistance 8 15 Resistance to rusting 8 16 Overload protection of transformers and associated circuits 9 17 Endurance 9 18 Abnormal operation 9 19 Mechanical hazards 9 20 Mechanical strength 11 21 Construction 11 22 Internal wiring 12 23 Components 12 24 Supply connection and external flexible cords 12 25 Terminals for external conductors 12 26 Provision for earthing 12 27 Screws and connections 12 28 Creepage distances, clearances and distances through insulation 12 Annex I (informative) Measurement of noise and vibration emissions 16 Annex K (normative) Battery tools and battery packs 19 Annex L (normative) Battery tools and battery packs provided with mains connection or non-isolated sources 20 Bibliography 21 Figure 101 – Measurement of	11	Input and current	8		
14 Moisture resistance 8 15 Resistance to rusting 8 16 Overload protection of transformers and associated circuits 9 17 Endurance 9 18 Abnormal operation 9 19 Mechanical hazards 9 20 Mechanical strength 11 21 Construction 11 22 Internal wiring 12 23 Components 12 24 Supply connection and external flexible cords 12 25 Terminals for external conductors 12 26 Provision for earthing 12 27 Screws and connections 12 28 Creepage distances, clearances and distances through insulation 12 28 Creepage distances, clearances and battery packs 16 Annex I (informative) Measurement of noise and vibration emissions 16 Annex K (normative) Battery tools and battery packs 19 Annex L (normative) Battery tools and battery packs provided with mains connection or non-isolated sources 20 Bibliography 21 Figur	12	Heating	8		
15 Resistance to rusting 8 16 Overload protection of transformers and associated circuits 9 17 Endurance 9 18 Abnormal operation 9 19 Mechanical hazards 9 20 Mechanical strength 11 21 Construction 11 22 Internal wiring 12 23 Components 12 24 Supply connection and external flexible cords 12 25 Terminals for external conductors 12 26 Provision for earthing 12 27 Screws and connections 12 28 Creepage distances, clearances and distances through insulation 12 Annexes 16 Annex I (informative) Measurement of noise and vibration emissions 16 Annex K (normative) Battery tools and battery packs provided with mains connection or non-isolated sources 20 Bibliography 21 Figure 101 – Measurement of distance between handle and rotary cutting bit 13 Figure 102 – Various designs with barrier 14 Figure 103 – Design with minimum dis	13	Resistance to heat and fire	8		
16 Overload protection of transformers and associated circuits 9 17 Endurance 9 18 Abnormal operation 9 19 Mechanical hazards 9 20 Mechanical strength 11 21 Construction 11 22 Internal wiring 12 23 Components 12 24 Supply connection and external flexible cords 12 25 Terminals for external conductors 12 26 Provision for earthing 12 27 Screws and connections 12 28 Creepage distances, clearances and distances through insulation 12 Annexes 16 Annex I (informative) Measurement of noise and vibration emissions 16 Annex K (normative) Battery tools and battery packs 19 Annex L (normative) Battery tools and battery packs provided with mains connection or non-isolated sources 20 Bibliography 21 Figure 101 – Measurement of distance between handle and rotary cutting bit 13 Figure 102 – Various designs with barrier 14 Figure 103 – Design wit	14	Moisture resistance	8		
17 Endurance 9 18 Abnormal operation 9 19 Mechanical hazards 9 20 Mechanical strength 11 21 Construction 11 22 Internal wiring 12 23 Components 12 24 Supply connection and external flexible cords 12 25 Terminals for external conductors 12 26 Provision for earthing 12 27 Screws and connections 12 28 Creepage distances, clearances and distances through insulation 12 Annexes 16 Annex I (informative) Measurement of noise and vibration emissions 16 Annex K (normative) Battery tools and battery packs 19 Annex L (normative) Battery tools and battery packs provided with mains connection or non-isolated sources 20 Bibliography 21 Figure 101 – Measurement of distance between handle and rotary cutting bit 13 Figure 102 – Various designs with barrier 14 Figure 103 – Design with minimum distance from grasping surface 15 Figure 1.101 – Positions of transducers for type 2 routers 17	15	Resistance to rusting	8		
18 Abnormal operation	16	Overload protection of transformers and associated circuits	9		
19 Mechanical hazards 9 20 Mechanical strength 11 21 Construction 11 22 Internal wiring 12 23 Components 12 24 Supply connection and external flexible cords 12 25 Terminals for external conductors 12 26 Provision for earthing 12 27 Screws and connections 12 28 Creepage distances, clearances and distances through insulation 12 Annexes 16 Annex I (informative) Measurement of noise and vibration emissions 16 Annex K (normative) Battery tools and battery packs 19 Annex L (normative) Battery tools and battery packs provided with mains connection or non-isolated sources 20 Bibliography 21 Figure 101 – Measurement of distance between handle and rotary cutting bit 13 Figure 102 – Various designs with barrier 14 Figure 103 – Design with minimum distance from grasping surface 15 Figure I.101 – Positions of transducers for type 2 routers 17	17	Endurance	9		
20 Mechanical strength	18	Abnormal operation	9		
21 Construction	19	Mechanical hazards	9		
22Internal wiring	20	Mechanical strength	11		
23 Components	21	Construction	11		
24Supply connection and external flexible cords1225Terminals for external conductors1226Provision for earthing1227Screws and connections1228Creepage distances, clearances and distances through insulation12Annexes16Annex I (informative) Measurement of noise and vibration emissions16Annex K (normative) Battery tools and battery packs19Annex L (normative) Battery tools and battery packs provided with mains connection or non-isolated sources20Bibliography21Figure 101 – Measurement of distance between handle and rotary cutting bit13Figure 102 – Various designs with barrier14Figure 103 – Design with minimum distance from grasping surface15Figure I.101 – Positions of transducers for type 2 routers17	22	Internal wiring	12		
25 Terminals for external conductors	23	Components	12		
26Provision for earthing1227Screws and connections1228Creepage distances, clearances and distances through insulation12Annexes16Annex I (informative) Measurement of noise and vibration emissions16Annex K (normative) Battery tools and battery packs19Annex L (normative) Battery tools and battery packs provided with mains connection or non-isolated sources20Bibliography21Figure 101 – Measurement of distance between handle and rotary cutting bit13Figure 102 – Various designs with barrier14Figure 103 – Design with minimum distance from grasping surface15Figure I.101 – Positions of transducers for type 2 routers17	24	Supply connection and external flexible cords	12		
27 Screws and connections	25				
28 Creepage distances, clearances and distances through insulation	26	Provision for earthing	12		
Annexes	27	Screws and connections	12		
Annex I (informative) Measurement of noise and vibration emissions	28	Creepage distances, clearances and distances through insulation	12		
Annex K (normative) Battery tools and battery packs	Ann	exes	16		
Annex L (normative) Battery tools and battery packs provided with mains connection or non-isolated sources		·			
or non-isolated sources	Annex K (normative) Battery tools and battery packs				
Figure 101 – Measurement of distance between handle and rotary cutting bit					
Figure 102 – Various designs with barrier	Bibli	ography	21		
Figure 102 – Various designs with barrier	Fiau	re 101 – Measurement of distance between handle and rotary cutting bit	13		
Figure 103 – Design with minimum distance from grasping surface					
Figure I.101 – Positions of transducers for type 2 routers					
rigule 1.102 - Fositions of transducers for type 1 fouters					

IEC 62841-2-17:2017+AMD1:2025 CSV © IEC 2025	- 3 <i>-</i>	REDLINE VERSION
Table 4 – Required performance levels		9
Table I.101 – Test conditions for type 2 ro	uters	16

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

Part 2-17: Particular requirements for hand-held routers

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.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) IEC draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). IEC takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, IEC had not received notice of (a) patent(s), which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at https://patents.iec.ch. IEC shall not be held responsible for identifying any or all such patent rights.

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

IEC 62841-2-17 edition 1.1 contains the first edition (2017-08) [documents 116/335/FDIS and 116/342/RVD] and its amendment 1 (2025-02) [documents 116/858/FDIS and 116/881/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.

IEC 62841-2-17:2017+AMD1:2025 CSV - 5 - © IEC 2025

International Standard IEC 62841-2-17 has been prepared by IEC technical committee 116: Safety of motor-operated electric tools.

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

This Part 2-17 is to be used in conjunction with the first edition of IEC 62841-1 (2014).

This Part 2-17 supplements or modifies the corresponding clauses in IEC 62841-1, so as to convert it into the IEC standard: Particular requirements for hand-held routers.

Where a particular subclause of Part 1 is not mentioned in this Part 2-17, 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 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.

The National Committees are requested to note that for this document the stability date is 2019.

THIS TEXT IS INCLUDED FOR THE INFORMATION OF THE NATIONAL COMMITTEES AND WILL BE DELETED AT THE PUBLICATION STAGE.

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 –

- 6 -

Part 2-17: Particular requirements for hand-held routers

1 Scope

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

Addition:

This part of IEC 62841 applies to hand-held **routers** intended for cutting slots into or shaping the edge of wood and analogous materials, plastics and non-ferrous metals except magnesium.

NOTE 101 Routers that are primarily used for trimming the edge of materials are also known as trimmers.

NOTE 102 **Routers** that are used to cut various materials through the rotary action are also known as rotary cutters.

This part of IEC 62841 does not apply to jointers.

NOTE 103 Jointers are covered by IEC 62841-2-19.

This part of IEC 62841 does not apply to small rotary tools.

NOTE 104 Small rotary tools are covered by IEC 62841-2-23.

2 Normative references

This clause of Part 1 is applicable.

CONTENTS

FOREWORD4				
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	8		
14	Moisture resistance	8		
15	Resistance to rusting	8		
16	Overload protection of transformers and associated circuits	9		
17	Endurance	9		
18	Abnormal operation	9		
19	Mechanical hazards	9		
20	Mechanical strength	11		
21	Construction	11		
22	Internal wiring	12		
23	Components	12		
24	Supply connection and external flexible cords	12		
25	Terminals for external conductors	12		
26	Provision for earthing	12		
27	Screws and connections	12		
28	Creepage distances, clearances and distances through insulation	12		
Annexes				
Ann	ex I (informative) Measurement of noise and vibration emissions	16		
Annex K (normative) Battery tools and battery packs19				
Annex L (normative) Battery tools and battery packs provided with mains connection				
	on-isolated sources			
ווטום	ography	∠ ۱		
Figu	re 101 – Measurement of distance between handle and rotary cutting bit	13		
Figure 102 – Various designs with barrier14				
Figure 103 – Design with minimum distance from grasping surface15				
Figure I.101 – Positions of transducers for type 2 routers				
Figure I.102 – Positions of transducers for type 1 routers				
•	•••			

IEC 62841-2-17:2017+AMD1:2025 CSV © IEC 2025	- 3 <i>-</i>	FINAL VERSION
Table 4 – Required performance levels		9
Table I.101 – Test conditions for type 2 rou	uters	16

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

Part 2-17: Particular requirements for hand-held routers

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.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) IEC draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). IEC takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, IEC had not received notice of (a) patent(s), which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at https://patents.iec.ch. IEC shall not be held responsible for identifying any or all such patent rights.

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

IEC 62841-2-17 edition 1.1 contains the first edition (2017-08) [documents 116/335/FDIS and 116/342/RVD] and its amendment 1 (2025-02) [documents 116/858/FDIS and 116/881/RVD].

This Final version does not show where the technical content is modified by amendment 1. A separate Redline version with all changes highlighted is available in this publication.

IEC 62841-2-17:2017+AMD1:2025 CSV - 5 - © IEC 2025

International Standard IEC 62841-2-17 has been prepared by IEC technical committee 116: Safety of motor-operated electric tools.

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

This Part 2-17 is to be used in conjunction with the first edition of IEC 62841-1 (2014).

This Part 2-17 supplements or modifies the corresponding clauses in IEC 62841-1, so as to convert it into the IEC standard: Particular requirements for hand-held routers.

Where a particular subclause of Part 1 is not mentioned in this Part 2-17, 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 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.

The National Committees are requested to note that for this document the stability date is 2019.

THIS TEXT IS INCLUDED FOR THE INFORMATION OF THE NATIONAL COMMITTEES AND WILL BE DELETED AT THE PUBLICATION STAGE.

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 2-17: Particular requirements for hand-held routers

Scope

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

Addition:

This part of IEC 62841 applies to hand-held routers intended for cutting slots into or shaping the edge of wood and analogous materials, plastics and non-ferrous metals except magnesium.

NOTE 101 Routers that are primarily used for trimming the edge of materials are also known as trimmers.

NOTE 102 Routers that are used to cut various materials through the rotary action are also known as rotary cutters.

This part of IEC 62841 does not apply to jointers.

NOTE 103 Jointers are covered by IEC 62841-2-19.

This part of IEC 62841 does not apply to small rotary tools.

NOTE 104 Small rotary tools are covered by IEC 62841-2-23.

Normative references

This clause of Part 1 is applicable.