

Australian/New Zealand Standard™

**Electric motor-operated hand-held tools,  
transportable tools and lawn and garden  
machinery—Safety**

**Part 3.10: Particular requirements for  
transportable cut-off machines**



### **AS/NZS 62841.3.10:2017**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-002, Safety of Household and Similar Electrical Appliances and Small Power Transformers. It was approved on behalf of the Council of Standards Australia on 2 December 2016 and by the New Zealand Standards Approval Board on 9 December 2016.

This Standard was published on 13 January 2017.

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The following are represented on Committee EL-002:

Australian Industry Group  
National Retailers Association (Australia)  
Business New Zealand  
Consumer Electronic Suppliers Association, Australia  
Consumers' Federation of Australia  
Electrical Regulatory Authorities, Australia  
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## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

**AS/NZS 62841.3.10:2017****ELECTRIC MOTOR-OPERATED HAND-HELD TOOLS, TRANSPORTABLE TOOLS  
AND LAWN AND GARDEN MACHINERY –  
SAFETY –****Part 3.10: Particular requirements for transportable cut-off machines****Foreword**

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers.

The objective of this Standard is to provide manufacturers, designers, regulatory authorities, testing laboratories and similar organizations with safety requirements designed to give the user protection against hazards that might occur during normal operation and abnormal operation of the appliance and which may be used as the basis for approval for sale or for connection to the electricity supply mains in Australia and New Zealand.

The text of IEC 62841-3-10 Ed 1, prepared by IEC Technical Committee TC 116, was submitted to the Standards Australia/Standards New Zealand Combined Procedure (dual public comment and committee vote) for adoption of the IEC standard as a Standards Australia/Standards New Zealand joint standard.

This Standard is an adoption with national modifications of the first edition of IEC 62841-3-10, *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3-10 Particular requirements for transportable cut-off machines*. It has been varied as indicated to take account of Australian and New Zealand conditions.

This part 3 has to be used in conjunction with the latest edition of AS/NZS 62841.1 Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements and its amendments. It was established on the basis of AS/NZS 62841.1:2015.

This part 3 supplements or modifies the corresponding clauses of AS/NZS 62841.1 so as to convert it into the Australia/New Zealand Standard: Safety requirements for appliances for transportable cut-off machines.

When a particular subclause of Part 1 is not mentioned in this part 3, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text of Part 1 is to be adapted accordingly.

NOTE 1 The following numbering system is used:

- subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
- unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
- additional annexes are lettered AA, BB, etc.;
- subclauses, notes and annexes that are additional to those in the IEC standard are prefixed with the letters AZ.

NOTE 2 The following print types are used:

- requirements: in roman type;
- test specifications: in italic type;
- notes: in small roman type.
- Words in bold in the text are defined in Clause 3.

p NOTE 3 In this document, p is used in the margin to indicate instructions for preparing a consolidated version.

The essential safety requirements in AS/NZS 3820<sup>1</sup> that could be applicable to requirements for transportable cut-off machines are covered by this standard.

The national variations to IEC 62841-3-10 Ed 1 form the Australian and New Zealand national variations for purposes of the IECEE scheme for recognition of results of testing to standards for safety of electrical equipment (the CB scheme).

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<sup>1</sup> AS/NZS 3820 *Essential safety requirements for electrical equipment*

The text of the International Standard IEC 62841-3-10 Ed 1 was approved as a joint Australia/New Zealand Standard with the agreed national variations as given below.

#### **AUSTRALIAN NATIONAL VARIATIONS**

There are no national variations to this Part 3 other than those listed in the national variations in AS/NZS 62841.1:2015.

#### **NEW ZEALAND NATIONAL VARIATIONS**

There are no national variations to this Part 3 other than those listed in the national variations in AS/NZS 62841.1:2015.

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**Annex ANZ  
(normative)**

**Normative references to international publications with their corresponding joint  
Australia/New Zealand publications**

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by national variations the relevant joint Australia/New Zealand publications applies if the national variations are needed to ensure the safety of the appliance for Australia/New Zealand conditions. These international publications are indicated by (mod). If an international publication is not so indicated, then either it or the listed Australia/New Zealand publication may be used.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>AS/NZS</u>	<u>Year</u>
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

**Part 3-10: Particular requirements for transportable cut-off machines**

**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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- 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.
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International Standard IEC 62841-3-10 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
116/240/FDIS	116/253/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 3-10 is to be used in conjunction with the first edition of IEC 62841-1 (2014).

This Part 3-10 supplements or modifies the corresponding clauses in IEC 62841-1, so as to convert it into the IEC Standard: Particular requirements for transportable cut-off machines.

Where a particular subclause of Part 1 is not mentioned in this Part 3-10, 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.

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.

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 website 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.

A bilingual version of this publication may be issued at a later date.

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.

The contents of the corrigendum of July 2016 have been included in this copy.

**IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.**

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

## Part 3-10: Particular requirements for transportable cut-off machines

### 1 Scope

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

*Addition:*

This part of IEC 62841 applies to transportable **cut-off machines** intended to cut materials such as metals, concrete and masonry and to be fitted with one abrasive

- **bonded reinforced wheel** of Type 41, or
- **diamond cut-off wheel** with the peripheral gaps, if any, not exceeding 10 mm

and with

- a **rated no-load speed** not exceeding a peripheral speed of the wheel of 100 m/s with the maximum wheel diameter and
- a wheel diameter range of 250 mm to 410 mm.

This standard does not apply to:

- transportable mitre saws;
- transportable tile saws;
- transportable metal saws.

NOTE 101 Transportable mitre saws are covered by IEC 62841-3-9. Transportable tile saws will be covered by a future part of IEC 62841-3. Transportable metal saws will be covered by a future part of IEC 62841-3.

### 2 Normative references

This clause of Part 1 is applicable except as follows:

*Addition:*

ISO 603-15, *Bonded abrasive products – Dimensions – Part 15: Grinding wheels for cutting-off on stationary or mobile cutting-off machines*

ISO 630 (all parts), *Structural steels*

### 3 Terms and definitions

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

#### 3.101

##### **inner flange**

part that contacts and provides support to the back side of the wheel and is located on the spindle between wheel and tool