

Australian/New Zealand Standard™

**Hand-held motor-operated electric
tools—Safety**

**Part 2.22: Particular requirements for
cut-off machines
(IEC 60745-2-22 Ed 1, MOD)**



AS/NZS 60745.2.22:2011

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 15 September 2011 and on behalf of the Council of Standards New Zealand on 19 September 2011.

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The following are represented on Committee EL-002:

Australian Industry Group
Australian Retailers Association
Business New Zealand
Consumer Electronic Suppliers Association, Australia
Consumers' Federation of Australia
Electrical Regulatory Authorities, Australia
Electrical Compliance Testing Association
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This Standard was issued in draft form for comment as DR 11901.

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

AS/NZS 60745.2.22:2011**Hand-held motor-operated electric tools – Safety –****Part 2.22: Particular requirements for cut-off machines****Foreword**

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

The objective of this Standard is to provide manufacturers, designers, regulatory authorities, testing laboratories and similar organizations with safety requirements for the design, manufacture and testing of cut-off machines which can form the basis for approval by regulatory authorities.

The text IEC 60745-2-22 Ed 1, prepared by IEC Technical Committee 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 60745-2-22, *Hand-held motor-operated electric tools – Safety – Part 2-22: Particular requirements for cut-off machines*. It has been varied as indicated to take account of Australian and New Zealand conditions.

This part 2 has to be used in conjunction with the latest edition of AS/NZS 60745.1 *Hand-held motor-operated electric tools – Safety – Part 1: General requirements* and its amendments. It was established on the basis of the 2009 edition of that standard. Amendments and revisions of Part 1 have also to be taken into account and the dates when such changes become applicable will be stated in the relevant amendment or revision of Part 1.

This part 2 supplements or modifies the corresponding clauses of AS/NZS 60745.1 so as to convert it into the Australian/New Zealand Standard: Safety requirements for cut-off machines.

When a particular subclause of Part 1 is not mentioned in this part 2, 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 3820¹ that could be applicable to requirements for cut-off machines are covered by this standard.

The national variations to the IEC 60745-2-22 Ed 1 form the 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).

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

The text of the International Standard IEC 60745-2-22 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 2 other than those listed in Annex ZZ to AS/NZS 60745.1.

8 Marking and instructions

8.1 *Add the following*

- p Tools fitted with an electronic speed or load regulator that interrupts the operation of the tool and that allows automatic resumption of the operation of the tool within 2 s shall be fitted with a label permanently attached to the supply cord. The label shall contain the substance of the following warning:

WARNING: This tool will restart automatically if stalled. Do not remove this label.

- p **8.13** *Addition:*

The size of the label for tools fitted with an electronic speed or load regulator that interrupts the operation of the tool and that allows automatic resumption of the operation of the tool within 2 s shall be approximately 50 mm x 70 mm.

The lettering of the word "WARNING" shall be upper case and be not less than 5 mm high. Other lettering shall be at least 2 mm high.

23 Components

Replace the text by the following.

- p This clause of Part 1 is applicable except as follows

23.3 *Addition:*

Electronic speed and load regulators that interrupt the operation of the tool and that allow automatic resumption of the operation of the tool within 2 s are not considered to be overload protection devices.

NEW ZEALAND NATIONAL VARIATIONS

There are no national variations to this Part 2 other than those listed in Annex ZZ to AS/NZS 60745.1.

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23.3 Addition:

Electronic speed and load regulators that interrupt the operation of the tool and that allow automatic resumption of the operation of the tool within 2 s are not considered to be overload protection devices.

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>
ISO 603-15	1999	<i>Bonded abrasive products – Dimensions – Part 15: Grinding wheels for cutting-off on stationary or mobile cutting-off machines</i>		
ISO 603-16	1999	<i>Bonded abrasive products – Dimensions – Part 16: Grinding wheels for cutting-off on hand-held power to</i>		

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS –
SAFETY –****Part 2-22: Particular requirements for 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.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

This part of International Standard IEC 60745 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
116/57/FDIS	116/62/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 2 is to be used in conjunction with the fourth edition of IEC 60745-1 (2006): *Hand-held motor-operated electric tools – Safety – Part 1: General requirements*, and its amendments.

NOTE 1 When "Part 1" is mentioned in this standard, it refers to IEC 60745-1.

This part 2 supplements or modifies the corresponding clauses of IEC 60745-1, so as to convert that publication into the IEC standard: Safety requirements for electric cut-off machines.

When a particular subclause of Part 1 is not mentioned in this part 2, that subclause applies as far as is reasonable. When this standard states “addition”, “modification” or “replacement”, the relevant text in Part 1 is to be adapted accordingly.

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- *test specifications: in italic type;*
- notes: in smaller 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, tables and figures which are additional to those in Part 1 are numbered starting from 101; additional annexes are lettered AA, BB, etc.

A list of all the parts in the IEC 60745 series, published under the general title *Hand-held motor-operated electric tools – 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
- amended.