

Australian/New Zealand Standard™

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

**Part 2.19: Particular requirements for
Jointers
(IEC 60745-2-19 Ed 1.0, IDT)**



AS/NZS 60745.2.19:2005

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 16 September 2005 and on behalf of the Council of Standards New Zealand on 16 September 2005.

This Standard was published on 25 November 2005.

The following are represented on Committee EL-002:

Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Australian Retailers Association
Business New Zealand
Consumer Electronic Suppliers Association, Australia
Electrical Consultants
Electrical Compliance Testing Association, Australia
Electrical Regulatory Authorities, Australia
Electrical Test Laboratories
Electricity Supply Association of Australia
Institution of Engineers Australia
Ministry of Consumer Affairs, New Zealand

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Web Shop at www.standards.com.au or Standards New Zealand web site at www.standards.co.nz and looking up the relevant Standard in the on-line catalogue.

Alternatively, both organizations publish an annual printed Catalogue with full details of all current Standards. For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

This Standard was issued in draft form for comment as DR 05918.

Australian/New Zealand Standard™

Hand-held motor-operated electric tools—Safety

Part 2.19: Particular requirements for Jointers (IEC 60745-2-19 Ed 1.0, IDT)

Originated in Australia as AS C160—1959.
Previous Australian edition AS 3160—1989.
Originated in New Zealand as NZS/AS 3160:1989.
Jointly revised and redesignated AS/NZS 3160:1993.
Sixth edition 1996.
Seventh edition 2001.
Revised and redesignated in part as AS/NZS 60745.2.19:2005.

COPYRIGHT

© Standards Australia/Standards New Zealand

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Jointly published by Standards Australia, GPO Box 476, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

CONTENTS

FOREWORD.....4

1 Scope6

2 Normative references6

3 Definitions6

4 General requirements6

5 General conditions for the tests6

6 Void6

7 Classification.....6

8 Marking and instructions7

9 Protection against access to live parts7

10 Starting7

11 Input and current7

12 Heating7

13 Leakage current8

14 Moisture resistance8

15 Electric strength8

16 Overload protection of transformers and associated circuits8

17 Endurance.....8

18 Abnormal operation8

19 Mechanical hazards.....8

20 Mechanical strength9

21 Construction.....10

22 Internal wiring.....10

23 Components.....10

24 Supply connection and external flexible cords10

25 Terminals for external conductors10

26 Provision for earthing.....10

27 Screws and connections10

28 Creepage distances, clearances and distances through insulation10

29 Resistance to heat, fire and tracking10

30 Resistance to rusting10

31 Radiation, toxicity and similar hazards10

Annexes	12
Annex K (normative) Battery tools and battery packs	12
Annex L (normative) Battery tools and battery packs provided with mains connection or non-isolated sources.....	12
Annex ZZ (informative) Variations to IEC 60745-2-19 Ed 1.0 for application in Australia and New Zealand	13
Bibliography	13
Figure 101 – Examples of jointers designs.....	11

AUSTRALIA/NEW ZEALAND STANDARD

HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS – SAFETY –

Part 2.19: Particular requirements for jointers

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 to supersede in part AS/NZS 3160:2001, *Approval and test specification – Hand-held portable tools*, 3 years from publication. During this period it is anticipated that regulatory authorities will approve jointers to either standard.

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 tool 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

This Standard is an adoption with national modifications and contains the full text of the first edition of IEC 60745-2-19:2005, *Hand-held motor-operated electric tools – Safety – Part 2-19: Particular requirements for jointers*, and has been varied as indicated to take account of Australian and New Zealand conditions.

This part is to be used in conjunction with AS/NZS 60745.1:2003 and its amendments. The Parts 2 contain clauses to supplement or modify the corresponding clauses in this part to provide the relevant requirements for each type of tool.

NOTE 1 The following print types are used:

- requirements: in roman type;
- *test specifications: in italic type;*
- notes: in small roman type.

The numbering of clauses, subclauses, notes, tables, figures and annexes follows that of IEC 60745-2-19 Ed 1.0. To allow for the introduction of additional material by the IEC, the numbers 101 to 200 have been reserved. To allow for additional material to be introduced by Australia and New Zealand, the numbers 201 to 300 are used to number further clauses, subclauses, notes, tables and figures in part 1. Additional annexes are lettered ZA, ZB and so on.

This scheme has been introduced to reduce the likelihood of the IEC and Australia and New Zealand using the same identifier for different purposes.

The use of the word VOID indicates that the IEC text is not used in Australia or New Zealand. The use of this word also avoids the need to renumber, clauses, notes, tables and figure if an earlier clause, note, table or figure is not used.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number does not appear on each page of text and its identity is shown on the cover and title page only.

- (b) In the source text "this International Standard" should read "this Australian/New Zealand Standard".
- (c) A full point substitutes for a comma when referring to a decimal marker.

Variations to IEC 60745-2-19 Ed 1.0 are indicated at the appropriate places throughout this standard. Strikethrough (~~example~~) identifies IEC tables, figures and passages of text which, for the purposes of this Australian/New Zealand standard are deleted. Where Australian/New Zealand tables, figures or passages of text are added, each is set in its proper place and identified by shading (example). Added figures are not themselves shaded, but are identified by a shaded border.

Variations made to IEC 60745-2-19 Ed 1.0 form the Australian variations for the purposes of the IECEE scheme for recognition of testing to standards for safety of electrical equipment (the CB scheme). These variations have been incorporated in the body of the standard. They are listed in Annex ZZ for easy reference.

The essential safety requirements in AS/NZS 3820 that could be applicable to jointers are covered by this standard.

HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS – SAFETY –

Part 2.19: Particular requirements for jointers

1 Scope

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

1.1 *Addition:*

This standard applies to **jointers** for cutting into wood or similar material.

2 Normative references

This clause of Part 1 is applicable.

3 Definitions

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

3.101

jointer

tool equipped with a disc cutter intended to cut a slot or groove.

NOTE Examples of **jointer** designs are shown in Figure 101

3.102

disc cutter

rotating cutting accessory having its main feed direction perpendicular to its axis of rotation, for working in wood or similar material through chip removing, cutting on its periphery and both flanks simultaneously. The diameter of the accessory is much larger than its thickness

4 General requirements

This clause of Part 1 is applicable.

5 General conditions for the tests

This clause of Part 1 is applicable.

6 Void

7 Classification

This clause of Part 1 is applicable.