This is a free page sample. Access the full version online.

AS/NZS 60745.2.5:2003
(IEC 60745-2-5:2003, IDT)

Australian/New Zealand Standard™

HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS – SAFETY –

Part 2.5: Particular requirements for circular saws
(IEC 60745-2-5:2003, IDT)

Standards Australia

STANDARDS NEW ZEALAND
Paerewa Aotearoa

This is a free page sample. Access the full version online.

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL/2 - Safety of household and similar electrical appliances and small power transformers. It was approved on behalf of the Council of Standards Australia on 1 September 2003 and by the Council of Standards New Zealand on 9 September 2003. It was published on 14 November 2003.

The following interests are represented on Committee EL/2

Association of Certification Bodies

Australian Chamber of Commerce and Industry

Australian Electrical and Electronic Manufacturers Association

Canterbury Manufacturers Association New Zealand

Consumer Electronic Suppliers Association, Australia

Electrical regulatory authorities, Australia

Electrical test laboratories

Electrical consultants

Electricity Supply Association of Australia

Institution of Engineers Australia

Metal Trades Industries Association of 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 Standards may also be withdrawn.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 Australia web site 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 comment to the Chief Executive of either Standards Australia International or Standards New Zealand at the address shown on the back cover.

This standard was issued in draft form for comment as DR 03912

This is a free page sample. Access the full version online.

AS/NZS 60745.2.5:2003
(IEC 60745-2-5:2003, IDT)

Australian/New Zealand Standard™

HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS – SAFETY –

Part 2.5: Particular requirements for circular saws (IEC 60745-2-5:2003, IDT)

Originated as AS/NZS 60745.2.5:2003

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

Published jointly by Standards Australia International Ltd
GPO Box 5420,Sydney, NSW 2001 Australia, and
Standards New Zealand
Private Bag 2439,Wellington 6020, New Zealand
ISBN 0 7337 5691 3

This is a free page sample. Access the full version online.

CONTENTS

FOREWORD 4

1 Scope 6
2 Normative references 6
3 Definitions 6
4 General requirements 7
5 General conditions for the tests 7
6 Void 7
7 Classification 7
8 Marking and instructions 7
9 Protection against access to live parts 10
10 Starting 10
11 Input and current 10
12 Heating 10
13 Leakage current 10
14 Moisture resistance 10
15 Electric strength 11
16 Overload protection of transformers and associated circuits 11
17 Endurance 11
18 Abnormal operation 11
19 Mechanical hazards 11
20 Mechanical strength 15
21 Construction 15
22 Internal wiring 16
23 Components 16
24 Supply connection and external flexible cords 16
25 Terminals for external conductors 16
26 Provision for earthing 16
27 Screws and connections 16
28 Creepage distances, clearances and distances through insulation 16
29 Resistance to heat, fire and tracking 16
30 Resistance to rusting 16
31 Radiation, toxicity and similar hazards 16

This is a free page sample. Access the full version online.

Annexes 39
Annex K (normative) Battery tools and battery packs 39
Annex L (normative) Battery tools and battery packs provided with mains connection or non-isolated sources 39
Annex AA (normative) Additional requirements for saws with a riving knife 39
Annex BB (normative) Additional requirements for lower guards for saws without a riving knife 43
Annex ZZ (informative) Variations to IEC 60745-2-5:2003 for application in Australia and New Zealand 45

Bibliography 44

Figure 101 – Circular saw with outer pendulum guard 17
Figure 102 – Circular saw with inner pendulum guard 17
Figure 103 – Circular saw with tow guard 17
Figure 104 – Plunge type saw 17
Figure 105 – Test probe 'a' 18
Figure 106 – Aperture for blade and/or riving knife in the lower guard and aperture of the upper guard 18
Figure 107 – Distance from the gripping surface to the blade's cutting zone 19
Figure 108 – Height restriction of the viewing aperture (see 19.101.2.1) 33
Figure 110 – Test probe 'b' 34
Figure 112 – Blade exposure angle of the lower guard 36
Figure 113 – Principal dimensions of the guide plate 37
Figure 114 – Flange characteristics 38
Figure AA.101 – Riving knife stability test 42
Figure AA.102 – Riving knife adjustment 42

SAI GLOBAL

This is a free preview. Purchase the entire publication at the link below:

Product Page

Looking for additional Standards? Visit Intertek Inform Infostore

Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation