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(Incorporating Amendments up to and including No. 2)



Australian/New Zealand Standard™

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

Part 3.1: Particular requirements for transportable table saws



AS/NZS 62841.3.1:2015

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 and Power Supplies. It was approved on behalf of the Council of Standards Australia on 27 April 2015 and by the Council of Standards New Zealand on 15 June 2015. This Standard was published on 30 June 2015.

The following are represented on Committee EL-002:

- Australian Industry Group
- Better Regulation Division (Fair Trading, Safework NSW, TestSafe)
- Business New Zealand
- Consumer Electronic Suppliers Association, Australia
- Consumers' Federation of Australia
- Electrical Regulatory Authorities Council, Australia
- Electrical consultants
- Engineers Australia
- JAS-ANZ
- Australian Retailers Association
- Testing Interests New Zealand
- WorkSafe, New Zealand
- New Zealand Electric Fence Energizer Manufacturers' Standards Group

This Standard was issued in draft form for comment as DR 11902.

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Australian/New Zealand Standard™

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

Part 3.1: Particular requirements for transportable table saws

Originated as AS/NZS 62841.3.1:2015.
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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

AS/NZS 62841.3.1:2015

**ELECTRIC MOTOR-OPERATED HAND-HELD TOOLS, TRANSPORTABLE TOOLS
AND LAWN AND GARDEN MACHINERY –
SAFETY –****Part 3.1: Particular requirements for transportable table saws****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 62841-3-1 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 incorporates Amendment No. 1 (December 2016) and applies to Clause 23 of the IEC text in the “including IEC text” version only. The change is not indicated by a marginal bar.

The text of IEC 62841-3-1 edition 1 amendment 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 as an amendment to the Standards Australia/Standards New Zealand joint standard AS/NZS 62841.3.1:2015.

This standard incorporates Amendment No. 1 (December 2016) and Amendment No. 2 (November 2021). The changes introduced by the amendments are indicated in the text by a marginal bar and amendment number against the part affected. Where an application date other than immediate is applicable to an amendment the date of application (DOA) and the date of withdrawal (DOW) if relevant, is indicated by the marginal bar against the part affected.

NOTE: Regulatory authorities that reference this Standard in regulation may apply these amendment requirements at a different time. Users of this Standard should consult with these authorities to confirm their requirements

This standard is an adoption with national modifications of the first edition of IEC 62841-3-1, *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3-1: Particular requirements for transportable table saws* including its amendment 1 (2021). It has been varied as indicated to take account of Australian and New Zealand conditions.

This Standard is an adoption with national modifications of the first edition of IEC 62841-3-1, *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3-1: Particular requirements for transportable table saws*. It has been varied as indicated to take account of Australian and New Zealand conditions.

A2
DOA
26/11/23

A2
DOW
26/11/23

This part of AS/NZS 62841 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.

A2 This part of AS/NZS 62841 supplements or modifies the corresponding clauses of Part 1 of AS/NZS 62841 so as to convert it into the Australian/New Zealand Standard: Safety requirements for appliances for transportable table saws.

When a particular subclause of Part 1 of AS/NZS 62841 is not mentioned in this part of AS/NZS 62841, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text of Part 1 of AS/NZS 62841 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 AS/NZS 62841;
- unless notes are in a new subclause or involve notes in AS/NZS 62841.1, 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 transportable table saws are covered by this standard.

A2 DOW 26/11/23 The national variations to IEC 62841-3-1 Ed 1 form the Australian and New Zealand national variations for purposes of the IECCE scheme for recognition of results of testing to standards for safety of electrical equipment (the CB scheme).

A2 DOA 26/11/23 The national variations to IEC 62841-3-1 Ed 1.1 form the Australian and New Zealand national variations for purposes of the IECCE scheme for recognition of results of testing to standards for safety of electrical equipment (the CB scheme).

A2 DOW 26/11/23 The text of the International Standard IEC 62841-3-1 Ed 1 was approved as a joint Australia/New Zealand Standard with the agreed national variations as given below.

A2 DOA 26/11/23 The text of the International Standard IEC 62841-3-1 Ed 1.1 was approved as a joint Australia/New Zealand Standard with the agreed national variations as given below

AUSTRALIAN NATIONAL VARIATIONS

A2 There are no national variations to this part of AS/NZS 62841 other than those listed in the national variations in AS/NZS 62841.1:2015.

NEW ZEALAND NATIONAL VARIATIONS

A2 There are no national variations to this part of AS/NZS 62841 other than those listed in the national variations in AS/NZS 62841.1:2015.

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

**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>
A2	ISO 180	2019	<i>Plastics – Determination of Izod impact strength</i>		

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

Part 3-1: Particular requirements for transportable table saws

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

IEC 62841-3-1 edition 1.1 contains the first edition (2014-06) [documents 116/168/FDIS and 116/182/RVD] and its corrigendum (2015-11), and its amendment 1 (2021-03) [documents 116/485/FDIS and 116/492/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.

International Standard IEC 62841-3-1 has been prepared by IEC technical committee 116: Safety of motor-operated electric tools.

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

This Part 3-1 is to be used in conjunction with the first edition of IEC 62841-1 (2014).

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

Where a particular subclause of Part 1 is not mentioned in this Part 3-1, that subclause applies as far as reasonable. 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 the base publication and its amendment 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.

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 3-1: Particular requirements for transportable table saws

1 Scope

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

Addition:

This part of IEC 62841 applies to transportable **table saws** with

- a toothed single blade; or
- stacked blades that cut a single groove or slot; or
- a moulding head cutter

intended for cutting wood and analogous materials, plastics and nonferrous metals except magnesium with a saw blade diameter between 105 mm and 315 mm, which hereinafter may simply be referred to as saw or tool.

This standard does not apply to **table saws** intended to cut other metals, such as magnesium, steel and iron. This standard does not apply to **table saws** with an automatic feeding device.

This standard does not apply to saws designed for use with abrasive wheels.

NOTE 101 Saws designed for use with abrasive wheels as cut-off machines are covered by IEC 62841-3-10.

This standard does not apply to **table saws** with more than one spindle such as for a scoring blade.

NOTE 102 In Europe (EN 62841-3-1), the following conditions apply:

This standard applies to **table saws** having a mass of:

- maximum 25 kg for tools capable of being lifted by hand by one person;
- maximum 50 kg for tools capable of being lifted by hand by two persons.

This standard does not apply to stationary **table saws**.

2 Normative references

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

Addition:

ISO 180:2019, *Plastics – Determination of Izod impact strength*

NOTE In Europe (EN 62841-3-1), the following normative reference applies:

EN 847-1, *Tools for woodworking – Safety requirements – Part 1: Milling tools, circular saw blade*

3 Terms and definitions

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

Addition:

3.101

anti-kickback device

device that allows the movement of the workpiece in the cutting direction but reduces the likelihood of the rapid movement of the workpiece in the direction opposite of feed

3.102

bevel angle

angular displacement of the saw blade plane with respect to the **table top** plane, the position of the saw blade plane that is perpendicular to the **table top** being the 0° bevel position

3.103

cross cutting

any cutting operation performed utilizing a **cross-cutting fence** to guide the workpiece.

Note 1 to entry: For natural wood, a cross cut is performed predominantly in a perpendicular direction with the grain of the wood; for engineered materials, a cross cut is performed perpendicular to the length of the workpiece.

3.104

cutting capacity

for any depth setting of the saw blade at 0° bevel position, the height of the highest saw blade tooth tip above the **table top**

Note 1 to entry: For any depth setting of the saw blade, at **bevel angles** other than 0°, the height of the highest saw blade tooth tip above the **table top**, but only the side of the tooth closest to the table is considered.

3.104.1

maximum cutting capacity

cutting capacity at the maximum depth setting of the saw blade and, unless otherwise specified, at 0° bevel

3.105

cutting edge zone

the outer 20 % of the radius of the saw blade

3.106

D

specified diameter of the saw blade

3.107

dadoing

non-through cutting operation performed with a stack of specially designed saw blades of a desired thickness to produce a rectangular sided slot in the workpiece

3.108

fence

device to guide or position the workpiece during the cutting process

3.108.1

cross-cutting fence

fence that is designed to move parallel with the plane of the saw blade during the cutting process or to position the workpiece for a **table saw with sliding function**

Note 1 to entry: The **fence** may have provisions to adjust the workpiece guiding face laterally and may have **mitre angle** capability.

Note 2 to entry: A **cross-cutting fence** with **mitre angle** capability is also known as a mitreing **fence** or mitre gauge.

3.108.2 rip fence

fence that has the workpiece guiding face parallel with the plane of the saw blade and can be set to a desired distance from the saw blade

3.109 grooving

series of repeated non-through cuts of same or different depth and spacing from each other, performed with an ordinary saw blade, to remove material for the purpose of creating a slot or for shaping or bending the workpiece

Note 1 to entry: **Grooving** is also known as slotting or kerfing.

3.110 kerf width

maximum distance between two parallel planes that are touching the opposing sides of at least three saw blade tooth tips

3.111 kickback

sudden reaction to a pinched, jammed or misaligned workpiece with respect to the saw blade, which causes the workpiece to be propelled by the saw blade

3.112 mitre angle

angular displacement of the plane of the **cross-cutting fence** with respect to the cutting line, the position of the saw blade plane that is perpendicular to the plane of the **cross-cutting fence** being the 0° mitre position

3.113 moulding head cutting

non-through cutting operation performed with a specially shaped cutting device which produces a corresponding shape of the cutter on the bottom surface of the workpiece, predominantly used for decoration

Note 1 to entry: **Moulding head cutting** is also known as shaping.

3.114 non-removable (device)

device that is welded, riveted or utilizing non-standard simple fasteners and cannot be removed with ordinary household tools, such as slotted or Philips-tip screwdrivers and/or simple wrenches

3.115 non-through cutting

any cutting operation where the cutting device does not protrude beyond the thickness of the workpiece

3.116 plowing

non-through cutting operation performed by moving a workpiece over an ordinary saw blade utilizing a special **fence** that is not parallel to the cutting line of the saw blade, and in very small increments increasing the depth of the cut after each pass to shave off large, arcing surface areas

Note 1 to entry: **Plowing** is also known as cove cutting.

3.117**plunge cutting**

non-through cutting operation starting at a location other than the edge of a workpiece

Note 1 to entry: The cut is typically performed by first securing the workpiece over the stationary saw blade lowered below the **table top** and then by slowly raising the rotating saw blade into the workpiece. The saw blade can be raised to fully cut through the thickness of the workpiece before the workpiece is advanced by guiding it with a rip or **cross-cutting fence**.

3.118**quadrant**

portion of the saw blade section above the plane of the **table top** with a perpendicular boundary line going through the centre of the saw blade

Note 1 to entry: The saw blade **quadrant** from the centre of the saw blade to the intersect point of the saw blade with the **table top** at the front of the **table saw** is called the “front **quadrant**”, the saw blade **quadrant** at the back of the **table saw** is called the “rear **quadrant**”. See Figure 107.

3.119**rabbeting**

non-through cutting operation creating a rectangular notch in the edge of a workpiece where the notch is either cut by dado blades or by two non-through cuts perpendicular to each other, performed with an ordinary saw blade on the side and the bottom edge of the workpiece

Note 1 to entry: **Rabbeting** is also known as rebating.

3.120**resawing**

combination of two non-through cuts performed with an ordinary saw blade in the same plane but on opposite sides of a workpiece that result in reducing the thickness of the workpiece

3.121**rip cutting**

any cutting operation performed utilizing a **rip fence** to guide the workpiece

Note 1 to entry: For natural wood, a rip cut is performed predominantly in a parallel direction with the grain of the wood; for engineered materials, a rip cut is performed parallel with the length of the workpiece.

3.122**riving knife**

device located behind and in the plane of the saw blade, within the **cutting capacity** of the saw blade and in a fixed proximity to the saw blade through an entire depth of cut and **bevel angle** operating range of the saw blade, with an intended function to reduce the risk of saw blade pinching and binding

3.123**extended riving knife**

device, in all aspects identical to a **riving knife** except it extends above the **maximum cutting capacity** of the saw blade to allow the mounting of a **saw blade guard** and/or an **anti-kickback device**

3.123.1**adjustable extended riving knife**

device designed to function at least in one position as an **extended riving knife** and in a second position as a **riving knife**

3.123.2**fixed extended riving knife**

extended riving knife that is fixed in position

3.124**saw blade guard**

device mounted above the table such that a workpiece will pass between the mounted device and the table, designed to minimize inadvertent blade contact by the user

3.124.1**over-arm saw blade guard**

saw blade guard suspended from a device above the table such that the mounting structure for the **saw blade guard** is not in the workable range of the **table top** plane

3.125**table saw**

tool with a rotating toothed saw blade that projects through a slot in a table which supports and positions the workpiece, where the workpiece is fed towards the saw blade and the motor and drive assembly for the saw blade are located below the **table top**

3.125.1**table saw with sliding function**

tool with a rotating toothed saw blade that projects through a slot in a table which supports and positions the workpiece, where the motor and drive assembly for the saw blade are located below the **table top** and mounted to a linear carriage system capable of advancing the saw blade drive assembly and where the workpiece is held stationary with the **cross-cutting fence** while the cutting saw blade is advanced through the workpiece

Note 1 to entry: The saw blade is either returned manually or automatically. These saws have a separate lockable rip-cutting position.

Note 2 to entry: These saws are also known as pull type saws.

3.126**table top**

surface of the saw table which is in contact with and supports the workpiece

3.127**tapered cut**

cut performed utilizing a fixture to hold the workpiece such that the straight edge of the workpiece is not parallel to the cutting line of the saw blade

Note 1 to entry: The fixture is guided by the **rip fence**.

3.128**through cutting**

any cutting operation where the saw blade protrudes beyond the thickness of the workpiece

3.129**zero clearance table insert**

table insert that is manufactured without any slot for the saw blade, with the intention that the slot in the table insert will be cut after installation in the **table saw** by the actual saw blade installed in the **table saw**

4 General requirements

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

4.101 Throughout the remaining part of this document, unless otherwise explicitly stated, whenever a requirement or a reference is made to

- “saw blade”:
this shall equally apply to any “saw blade” as specified in accordance with 8.14.2 a)

- “**riving knife**”:
this shall equally apply to “**extended riving knife**”, but not vice versa.
This terminology rule does not apply to “**riving knife position**” i.e. the “**riving knife position**” cannot be substituted with an “**extended riving knife position**”;
- “force” as multiple of **D**:
the force shall be measured in N and the saw blade diameter **D** shall be measured in mm.

5 General conditions for the tests

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

5.17 Addition:

*The mass of the tool shall include the **saw blade guard, anti-kickback device, if any, riving knife, rip fence, cross-cutting fence** and the push stick.*

Any additional parts such as leg sets or carrying means that are required in accordance with the user instructions shall be included in the mass.

6 Radiation, toxicity and similar hazards

This clause of Part 1 is applicable.

7 Classification

This clause of Part 1 is applicable.

8 Marking and instructions

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

8.1 Addition:

Table saws shall be marked with:

- rated no-load speed of the output spindle.

8.2 Addition:

NOTE 101 In the United States of America, the following additional requirements apply.

The following statements shall be verbatim:

- a) DANGER – Never place your hands in the vicinity or in line with the saw blade.
- b) WARNING – “Wear eye protection”.

NOTE 102 It is possible to replace the above verbatim text with symbol M004 of ISO 7010 (2011-05).

- c) WARNING – Always use a properly functioning saw-blade guard, riving knife and anti-kickback device for every operation for which it can be used, including all through sawing.

NOTE 103 If an **anti-kickback device** is not provided, the text is revised as follows:

WARNING – Always use a properly functioning saw-blade guard and riving knife for every operation for which it can be used, including all through sawing.

NOTE 104 It is possible to replace the term “**anti-kickback device**” with “**anti-kickback pawls**” or “**anti-kickback rollers**”.

- d) WARNING – Use a push-stick or push-block when required.

- e) **WARNING** – Do not perform any operation freehand.
- f) **WARNING** – Pay particular attention to instructions on reducing risk of kickback. (or “Know how to reduce risk of kickback.”)
- g) **WARNING** – Never reach around or over saw blade. (or “Never reach in back of or over saw blade.”)
- h) **WARNING** – Turn off tool and wait for saw blade to stop before moving workpiece or changing settings.
- i) **WARNING** – Never stand directly in line with the saw blade. Always position your body on the same side of the saw blade as the fence.

8.3 Addition:

Table saws shall be marked with:

- saw blade diameter.

8.3.101 Table saws shall be marked with the direction of rotation of the spindle, indicated in a visible location on the tool in the vicinity of the saw blade, such as on the **saw blade guard**, **ripping knife** or a table insert, by an arrow raised or recessed or by any other means no less visible and indelible.

Compliance is checked by inspection.

8.3.102 The **ripping knife** shall be permanently marked, e.g. by engraving, stamping or etching, with its thickness and, as specified in Figure 101, with the saw blade diameter **D**, saw blade body thicknesses, and **kerf widths** that can be used with this **ripping knife**.

Compliance is checked by inspection.

8.3.103 The saw blade(s) provided with the tool shall be marked with a maximum operating speed and with an arrow indicating the correct direction of rotation.

Compliance is checked by inspection.

8.3.104 Table inserts for cutting tools other than single saw blades, see 21.101.6, shall be marked as illustrated in Figure 102.

Compliance is checked by inspection.

8.14.1 Addition:

The additional safety instructions as specified in 8.14.1.101 shall be given. This part may be printed separately from the “General Power Tool Safety Warnings”.

8.14.1.101 Safety instructions for table saws

1) Guarding related warnings

- a) **Keep guards in place. Guards must be in working order and be properly mounted. A guard that is loose, damaged, or is not functioning correctly must be repaired or replaced.**
- b) **Always use saw blade guard, ripping knife and anti-kickback device for every through-cutting operation. For through-cutting operations where the saw blade cuts completely through the thickness of the workpiece, the guard and other safety devices help reduce the risk of injury.**

NOTE 1 If an **anti-kickback device** is not provided, the warning is revised as follows:

Always use saw blade guard and ripping knife for every through-cutting operation. For through-cutting operations where the saw blade cuts completely through the thickness of the workpiece, the guard and other safety devices help reduce the risk of injury.