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I.S. EN 61029-2-11:2012

Safety of transportable motor-operated electric tools -- Part 2-11: Particular requirements for combined mitre and bench saws (IEC 61029-2-11:2001 (MOD))

I.S. EN 61029-2-11:2012

Incorporating amendments/corrigenda issued since publication:

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I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

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**Safety of transportable motor-operated electric tools -
Part 2-11: Particular requirements for combined mitre and bench saws**

Sécurité des machines-outils électriques
semi-fixes -
Partie 2-11: Règles particulières pour les
scies d'établi-scies à mortaiser

Sicherheit transportabler motorbetriebener
Elektrowerkzeuge -
Teil 2-11: Besondere Anforderungen für
kombinierte Tisch- und Gehrungssägen

This amendment A11 modifies the European Standard EN 61029-2-11:2012; it was approved by CENELEC on 2013-08-12. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B - 1000 Brussels

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Foreword

This document (EN 61029-2-11:2012/A11:2013) has been prepared by CLC/TC 116 "Safety of motor-operated electric tools".

The following dates are fixed:

- latest date by which this document has to be implemented (dop) 2014-08-12
at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with (dow) 2016-08-12
this document have to be withdrawn

This amendment was developed to include a requirement about the operative condition of the saw unit after completing the test according to 18.Z106.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

Modification to 18.Z106 "Return device of the saw unit (mitre saw mode)"

Replace the 5th paragraph by the following:

After completing the test above, the time needed for the back stroke from the lowest position of the saw unit to its upper position shall not exceed 2 s and the whole mechanical system shall show no damage and work correctly.

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61029-2-11

October 2012

ICS 25.080.60; 25.140.20

Supersedes EN 61029-2-11:2009

English version

**Safety of transportable motor-operated electric tools -
Part 2-11: Particular requirements for combined mitre and bench saws
(IEC 61029-2-11:2001, modified)**

Sécurité des machines-outils
électriques semi-fixes -
Partie 2-11: Règles particulières pour
les scies d'établi-scies à mortaiser
(CEI 61029-2-11:2001, modifiée)

Sicherheit transportabler
motorbetriebener Elektrowerkzeuge -
Teil 2-11: Besondere Anforderungen für
kombinierte Tisch- und Gehrungssägen
(IEC 61029-2-11:2001, modifiziert)

This European Standard was approved by CENELEC on 2012-09-03. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Management Centre: Avenue Marnix 17, B - 1000 Brussels

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Foreword

This document (EN 61029-2-11:2012) consists of the text of IEC 61029-2-11:2001 prepared by IEC/SC 61F (transformed into IEC TC 116 "Safety of hand-held motor-operated electric tools"), together with the common modifications prepared by CLC/TC 116 "Safety of motor-operated electric tools".

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2013-09-03
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-09-03

This document supersedes EN 61029-2-11:2009.

EN 61029-2-11:2012 includes the following significant technical changes with respect to EN 61029-2-11:2009:

- introduction of 'linked action'
- rewording of some clauses;
- improvement and clarification of Clause 18.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This European Standard is divided into two parts:

Part 1 General requirements, which are common to most transportable motor, operated tools (for the purpose of this European Standard referred to simply as tools) which could come within the scope of this European Standard.

Part 2 Requirements for particular types of tool which either supplement or modify the requirements given in Part 1 to account for the particular hazards and characteristics of these specific tools.

Compliance with the relevant clauses of Part 1 together with a relevant Part 2 of this European Standard provides one means of conforming to the specified essential requirements of the Directive.

This European Standard follows the overall requirements of EN ISO 12100.

For noise and vibration, this European Standard covers the requirements for their measurement, the provisions of information arising from these measurements and the provision of information about the Personal Protective Equipment required. Specific requirements for the reduction of the risk arising from noise and vibration through the design of the tool are not given as this reflects the current state of art.

Warning: Other requirements arising from other EU Directives can be applicable to the products falling within the scope of this European Standard.

CEN has prepared standards for industrial machines, which may extend to transportable machines. Although CEN and CENELEC have where appropriate used common solutions to provide uniform levels of protection, persons using this European Standard should check the scope of both this and CEN standards to ensure that a correct standard is used.

This Part 2-11 is to be used in conjunction with EN 61029-1:2009. This Part 2-11 supplements or modifies the corresponding clauses of EN 61029-1, so as to convert it into the European Standard: "Particular requirements for combined mitre and bench saws".

Where a particular subclause of Part 1 is not mentioned in this Part 2-11, that subclause applies as far as reasonable. Where this Part 2-11 states "addition" "modification" or "replacement", the relevant text of Part 1 is to be adapted accordingly.

Clauses, subclauses, notes, tables and figures which are additional to those in Part 1 are numbered starting from 101.

Clauses, subclauses, notes, tables and figures which are additional to those in IEC 61029-2-11 are prefixed "Z".

NOTE In this European Standard, the following print types are used:

- requirements proper: in roman type;
- *test specifications: in italic type;*
- explanatory matter: in smaller roman type.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive.

For the relationship with EU Directive 2006/42/EC, see informative Annex ZZ, which is an integral part of this document.

Endorsement notice

The text of the International Standard IEC 61029-2-11:2001 was approved by CENELEC as a European Standard with agreed common modifications.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

SAFETY OF TRANSPORTABLE MOTOR-OPERATED ELECTRIC TOOLS –

Part 2-11: Particular requirements for mitre-bench saws

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The 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 the 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 National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61029-2-11 has been prepared by subcommittee 61F: Safety of hand-held motor-operated electric tools, of IEC technical committee 61: Safety of household and similar electric appliances.

The text of this standard is based on the following documents:

FDIS	Report on voting
61F/384/FDIS	61F/406/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 3.

The part 2-11 is to be used in conjunction with the first edition of IEC 61029-1 (1990).

This part 2-11 supplements or modifies the corresponding clauses in IEC 61029-1, so as to convert it into the IEC Standard: Safety requirements for mitre-bench saws.

Where a particular subclause of part 1 is not mentioned in this part 2-11, 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.

NOTE 1 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 2 are printed in **bold typeface**.

NOTE 2 Subclauses, notes and figures which are additional to those in part 1 are numbered starting from 101.

The committee has decided that the contents of this publication will remain unchanged until 2006. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

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

SAFETY OF TRANSPORTABLE MOTOR-OPERATED ELECTRIC TOOLS –

Part 2-11: Particular requirements for mitre-bench saws

1 Scope

This clause of part 1 is applicable except as follows:

1.1 *Replace the first paragraph by:*

This standard applies to **combined mitre-bench saws** intended for cutting non-ferrous metals such as aluminium, wood or similar materials with a blade diameter not exceeding 350 mm, as defined in 2.101.

2 Definitions

This clause of part 1 is applicable except as follows:

2.21 *Replacement:*

normal load

load obtained when the tool is operated continuously at a voltage equal to rated voltage or at the upper limit of the rated voltage range, the torque applied to the spindle being such that the input, in watts, is equal to the rated input

Addition:

2.101

combined mitre-bench saw

tool designed to cut non-ferrous metals such as aluminium, wood or similar materials by means of a rotating toothed blade. The combined saw is equipped with two tables: a lower table, which supports and positions the workpiece against a fence during the mitre action and an upper table provided with a slot through which the saw blade projects, supporting the workpiece which is fed by hand towards the saw blade

The saw blade is fitted on an arm suspended over the table; such arm is generally pivoted to the saw support frame or directly to the saw table. In some cases, the chop action of the saw blade is followed by a sliding movement (see figures 108, 109, 110)

2.102

lower table

table used to perform mitre operations

2.103

upper table

table used to perform bench operations

3 General requirement

This clause of part 1 is applicable.

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