

**CAN/CSA-C22.2 No. 60745-2-13-11**  
(IEC 60745-2-13:2006+A1:2009, MOD)  
**National Standard of Canada**

**Hand-held motor operated electric tools — Safety —  
Part 2-13: Particular requirements for chain saws**



Standards Council of Canada  
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# ***Update No. 3***

## ***CAN/CSA-C22.2 No. 60745-2-13-11***

### ***February 2017***

**Note:** For information about the **Standards Update Service** or if you are missing any updates, go to **shop.csa.ca** or e-mail **techsupport@csagroup.org**.

**Title:** *Hand-held motor operated electric tools — Safety — Part 2-13: Particular requirements for chain saws* — originally published December 2011

**Revisions issued:** Update No. 1 — December 2014  
Update No. 2 — May 2015

The following revisions have been formally approved and are marked by a vertical line in the margin on the attached replacement pages:

<b>Revised</b>	Title page, copyright page, Preface, and Clause 8.1DV
<b>New</b>	None
<b>Deleted</b>	Clauses 1DV and 2DV

**Note:** *Pages 6A and 6B have been deleted. Users should remove these pages from the Standard.*

- Update your copy by inserting these revised pages.
- Keep the pages you remove for reference.

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CSA Group  
CAN/CSA-C22.2 No. 60745-2-13-11  
First Edition  
(IEC 60745-2-13:2006+A1:2009, MOD)



Underwriters Laboratories Inc.  
UL 60745-2-13  
First Edition

## Hand-Held Motor-Operated Electric Tools – Safety – Part 2-13: Particular Requirements for Chain Saws

December 8, 2011

(Title Page Reprinted: February 17, 2017)

This national standard is based on publication IEC 60745-2-13, Edition 2.1 (2011).



ANSI/UL 60745-2-13-2017

*Approved by*



Standards Council of Canada  
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## Preface

This is the harmonized CSA Group and UL standard for Hand-Held Motor-Operated Electric Tools – Safety – Part 2-13: Particular Requirements for Chain Saws. It is the first edition of CAN/CSA C22.2 No. 60745-2-13, and the first edition of UL 60745-2-13. This harmonized standard has been jointly revised on February 17, 2017. For this purpose, CSA Group and UL are issuing revision pages dated February 17, 2017.

This harmonized standard is based on IEC Publication IEC 60745-2-13, edition 2.1 (edition 2:2006 consolidated with amendment 1:2009).

This harmonized standard was prepared by the CSA Group and Underwriters Laboratories Inc. (UL). The efforts and support of the Harmonization Working Group for the Adoption of the IEC Series of Hand-Held, Motor-Operated Tool Standards, are gratefully acknowledged.

This standard is considered suitable for use for conformity assessment within the stated scope of the standard.

This standard was reviewed by the CSA Subcommittee on Safety of Hand-Held Motor-Operated Electric Tools, under the jurisdiction of the CSA Technical Committee on Consumer and Commercial Products and the CSA Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the CSA Technical Committee.

This standard has been approved as a National Standard of Canada by the Standards Council of Canada (SCC).

This standard has been approved by the American National Standards Institute (ANSI) as an American National Standard.

### Application of Standard

Where reference is made to a specific number of samples to be tested, the specified number is considered a minimum quantity.

**Note:** Although the intended primary application of this standard is stated in its scope, it is important to note that it remains the responsibility of the users of the standard to judge its suitability for their particular purpose.

This CAN/CSA-C22.2 No. 60745-2-13, Standard for Safety for Hand-Held Motor-Operated Electric Tools – Safety – Part 2-13: Particular Requirements For Chain Saws, is to be used in conjunction with the third edition of CAN/CSA-C22.2 No. 60745-1. The requirements for chain saws are contained in this Part 2 Standard and CAN/CSA-C22.2 No. 60745-1. Requirements of this Part 2 Standard, where stated, amend the requirements of CAN/CSA-C22.2 No. 60745-1. Where a particular subclause of CAN/CSA-C22.2 No. 60745-1 is not mentioned in CAN/CSA-C22.2 No. 60745-2-13, the CAN/CSA-C22.2 No. 60745-1 subclause applies.

This UL Standard 60745-2-13 Standard for Safety for Hand-Held Motor-Operated Electric Tools – Safety – Part 2-13: Particular Requirements For Chain Saws, is to be used in conjunction with the fourth edition of UL 60745-1. The requirements for chain saws are contained in this Part 2 Standard and UL 60745-1.

Requirements of this Part 2 Standard, where stated, amend the requirements of UL 60745-1. Where a particular subclause of UL 60745-1 is not mentioned in UL 60745-2-13, the UL 60745-1 subclause applies.

### **Level of Harmonization**

This standard adopts the IEC text with national differences.

This standard is published as an equivalent standard for CSA and UL.

An equivalent standard is a standard that is substantially the same in technical content, except as follows: Technical national differences are allowed for codes and governmental regulations as well as those recognized as being in accordance with NAFTA Article 905, for example because of fundamental climatic, geographical, technological, or infrastructural factors, scientific justification, or the level of protection that the country considers appropriate. Presentation is word for word except for editorial changes.

All national differences from the IEC text are included in the CSA and UL versions of the standard. While the technical content is the same in each organization's version, the format and presentation may differ.

### **Reasons for Differences from IEC**

Differences from the IEC are being added in order to address regulatory and safety situations present in the US and Canada.

### **Interpretations**

The interpretation by the standards development organization of an identical or equivalent standard is based on the literal text to determine compliance with the standard in accordance with the procedural rules of the standards development organization. If more than one literal interpretation has been identified, a revision is to be proposed as soon as possible to each of the standards development organizations to more accurately reflect the intent.

### **IEC Copyright**

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**DV.101 DE *Addition to the part 2:***

The numbering system in the standard uses a space instead of a comma to indicate thousands and uses a comma instead of a period to indicate a decimal point. For example, 1 000 means 1,000 and 1,01 means 1.01.

# HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS – SAFETY –

## PART 2-13: PARTICULAR REQUIREMENTS FOR CHAIN SAWS

### 1 Scope

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

*Addition:*

This standard applies to chain saws for cutting wood and designed for use by one person. This standard does not cover chain saws designed for use in conjunction with a guide-plate and riving knife or in any other way such as with a support or as a stationary or transportable machine.

This standard does not apply to chain saws for tree service as defined in ISO 11681-2, pole cutters and pruners.

**1DV D1 Deleted February 17, 2017**

### 2 Normative references

This clause of Part 1 is applicable except as follows:

*Addition:*

ISO 3864-3<sup>1)</sup>

*Graphical symbols – Safety colours and safety signs – Part 3: Design criteria for graphical symbols used in safety signs*

ISO 6533:2001

*Forestry machinery – Portable chain-saw front hand-guard – Dimensions and clearances*

ISO 6534:1992

*Portable chain-saws – Hand-guards – Mechanical strength*

ISO 7914:2002

*Forestry machinery – Portable chain-saws – Minimum handle clearance and sizes*

ISO 7915:1991

*Forestry machinery – Portable chain-saws – Determination of handle strength*

ISO 8334:1985

*Forestry machinery – Portable chain-saws – Determination of balance*

ISO 9518:1998

*Forestry machinery – Portable chain-saws – Kickback test*

ISO 10726:1992

*Portable chain-saws – Chain catcher – Dimensions and mechanical strength*

ISO 11681-2:1998

*Machinery for forestry – Portable chain-saws – Safety requirements and testing – Part 2: Chain-saws for tree service*

1) ISO 3864-3 is currently at the DIS stage.

**2DV D1 Deleted February 17, 2017**

### 3 Terms and definitions

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

3.101 **chain saw:** tool designed to cut wood with a saw chain and consisting of an integrated unit of handles, motor and cutting attachment, designed to be supported with two hands (see Figure 101)

3.102 **chain brake:** device for stopping or locking the saw chain activated manually or non-manually when kickback occurs

3.103 **bar tip guard:** shield that prevents contact with the saw chain at the tip of the guide bar, for reducing the incidence of kickbacks

3.104 **chain brake lever:** device, usually the front hand guard, used to activate the chain brake

3.105 **chain catcher:** device for restraining the saw chain if it breaks or degrooves (see Figure 101)

3.106 **drive sprocket:** chain drive wheel with teeth

3.107 **front handle:** support handle located at or towards the front of the motor housing (see Figure 101)

3.108 **front hand guard:** guard between the front handle and the saw chain for protecting the hand from injuries if the hand slips off the handle (see Figure 101)

3.109 **guide bar:** part that supports and guides the saw chain (see Figure 101)

3.110 **kickback:** rapid upward and/or backward motion of the chain saw which can occur when the moving saw chain near the tip of the guide bar contacts an object such as a log or branch

3.111 **rear hand guard:** extension on the lower part of the rear handle for protecting the hand from the saw chain if it breaks or degrooves (see Figure 101)

3.112 **rear handle:** support handle located on the housing or towards the rear of the motor housing (see Figure 101)

3.113 **saw chain:** chain, serving as a cutting tool, consisting of drive links, cutters and side links, held together by rivets (see Figure 101)

3.114 **spiked bumper:** device, fitted in front of the guide bar mounting point, acting as a pivot when in contact with a tree or log (see Figure 101 and Figure 102)