



CSA/ANSI C22.2 No. 19085-1:19
(ISO 19085-1:2017, MOD)
National Standard of Canada
American National Standard



CSA/ANSI C22.2 No. 19085-1:19
Woodworking machines — Safety — Part 1:
Common requirements
(ISO 19085-1:2017, MOD)



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Woodworking machines — Safety — Part 1: Common requirements

(ISO 19085-1:2017, MOD)

CSA Preface

This is the first edition of CSA/ANSI C22.2 No. 19085-1, *Woodworking machines — Safety — Part 1: Common requirements*, which is an adoption, with North American deviations, of the identically titled ISO (International Organization for Standardization) Standard 19085-1 (first edition, 2017-07). It is one in a series of Standards issued by CSA Group under Part II of the *Canadian Electrical Code*.

For brevity, this Standard will be referred to as “CSA/ANSI C22.2 No. 19085-1” throughout.

This Standard covers the safety issues presented by newly emerging woodworking machines.

This Standard is intended to be used in conjunction with other parts of the CSA/ANSI C22.2 No. 19085 series of Standards, applicable to specific machine types.

Note: When “Part 1” is mentioned in this Standard, it refers to CSA/ANSI C22.2 No. 19085-1 (first edition).

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

This Standard was prepared by the CSA Subcommittee on Electrical Equipment for Woodworking Machinery, under the jurisdiction of the CSA Technical Committee on Industrial Products and the CSA Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the Technical Committee.

This Standard has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

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

Interpretation: The Strategic Steering Committee on Requirements for Electrical Safety has provided the following direction for the interpretations of standards under its jurisdiction: “The literal text shall be used in judging compliance of products with the safety requirements of this Standard. When the literal text cannot be applied to the product, such as for new materials or construction, and when a relevant CSA committee interpretation has not already been published, CSA Group’s procedures for interpretation shall be followed to determine the intended safety principle.”

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- a) Standard designation (number);
- b) relevant clause, table, and/or figure number;
- c) wording of the proposed change; and
- d) rationale for the change.

Woodworking machines — Safety —
Part 1:
Common requirements

Machines à bois — Sécurité —
Partie 1: Exigences communes





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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is ISO/TC 39, *Machine tools*, Subcommittee SC 4, *Woodworking machines*.

A list of all parts in the ISO 19085 series can be found on the ISO website.

Introduction

The ISO 19085 series of International Standards provides technical safety requirements for the design and construction of woodworking machinery. It concerns designers, manufacturers, suppliers and importers of the machines specified in the Scope. It also includes a list of informative items that the manufacturer will need to give to the user.

This document is a type-C standard as stated in ISO 12100.

The machinery concerned and the extent to which hazards, hazardous situations or hazardous events are covered are indicated in the Scope of this document.

When requirements of this type-C standard are different from those which are stated in type-A or type-B standards, the requirements of this type-C standard take precedence over the requirements of the other standards for machines that have been designed and built according to the requirements of this type-C standard.

The full set of requirements for a particular type of woodworking machine are those given in the part of ISO 19085 applicable to that type, together with the relevant requirements from this document, to the extent specified in the Scope of the applicable part of ISO 19085.

For woodworking machines not covered by an applicable part, this document can be used as a guide. However, the designer will then need to perform a full risk assessment according to ISO 12100 and design the means for reducing the risks arising from relevant hazards.

As far as possible, in parts of ISO 19085 other than this document, safety requirements have been treated by way of reference to the relevant sections of this document, to avoid repetition and reduce their length. The other parts contain replacements and additions to the common requirements given in this document.

NOTE Requirements for tools are given in EN 847-1:2013 and EN 847-2:2013.

DV.1 Replace all references to “ISO 12100” and “ISO 12100:2010” with “ANSI/ISO 12100” throughout this Standard.

Woodworking machines — Safety — Part 1: Common requirements

1 Scope

This document gives the safety requirements and measures to reduce risks related to woodworking machines arising during operation, adjustment, maintenance, transport, assembly, dismantling, disabling and scrapping and which are common to machines used in the woodworking industry. It is applicable to woodworking, stationary and displaceable machines when they are used as intended and under the conditions foreseen by the manufacturer.

NOTE 1 For relevant but not significant hazards, e.g. sharp edges of the machine frame, see ISO 12100:2010.

It is intended to be used in conjunction with the other parts of ISO 19085, applicable to specific machine types.

It is not applicable to machines intended for use in potential explosive atmospheres or to machines manufactured prior to the date of its publication.

NOTE 2 Machines for capturing and extracting dust are covered by EN 12779 and EN 16770.

1DV.1 Modify Clause 1 by adding the following to the first paragraph:

This Standard applies to electrical woodworking machines rated 600 V or less that are intended to be installed and used in accordance with the *National Electrical Code* (NFPA 70) in the United States and the *Canadian Electrical Code, Part I* (CSA C22.1) in Canada.

In Canada, general requirements applicable to these machines are provided in CAN/CSA-C22.2 No. 0.

1DV.2 Modify Clause 1 by replacing Note 2 with the following:

NOTE 2 Machines for capturing and extracting dust are not within the scope of this Standard.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

ISO 3746:2010, *Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Survey method using an enveloping measurement surface over a reflecting plane*

ISO 4413:2010, *Hydraulic fluid power — General rules and safety requirements for systems and their components*

ISO 4414:2010, *Pneumatic fluid power — General rules and safety requirements for systems and their components*

ISO 7960:1995, *Airborne noise emitted by machine tools — Operating conditions for woodworking machines*