CSA/ANSI C22.2 No. 19085-13:23
(ISO 19085-13:2020, MOD)
National Standard of Canada
American National Standard

CSA/ANSI C22.2 No. 19085-13:23
Woodworking machines — Safety — Part 13: Multi-blade rip sawing machines with manual loading and/or unloading
(ISO 19085-13:2020, MOD)

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CSA Preface

This is the first edition of CSA/ANSI C22.2 No. 19085-13, *Woodworking machines — Safety — Part 13: Multi-blade rip sawing machines with manual loading and/or unloading*, which is an adoption, with North American deviations, of the identically titled ISO (International Organization for Standardization) Standard 19085-13 (first edition, 2020-05). 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. 19085-13" throughout.

This Standard covers the safety requirements and measures for multi-blade rip sawing machines with manual loading and/or unloading.

The North American deviations are intended to meet product requirements and to align with the *Canadian Electrical Code, Part I* (Canada) and the *National Electrical Code* (United States).

This Standard is intended to be used in conjunction with CSA/ANSI C22.2 No. 19085-1:19, *Woodworking machines — Safety — Part 1: Common requirements* (adopted ISO 19085-1:2017, with North American deviations).

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

This Standard was reviewed for North American adoption 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.

Interpretations: The Strategic Steering Committee on Requirements for Electrical Safety has provided the following direction for the interpretation 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

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INTERNATIONAL STANDARD

ISO 19085-13

First edition
2020-05

Woodworking machines — Safety —

Part 13: Multi-blade rip sawing machines with manual loading and/or unloading

Machines à bois — Sécurité —

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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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This document was prepared by Technical Committee ISO/TC 39, *Machine tools*, Subcommittee SC 4, *Woodworking machines,* in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 142, *Woodworking machines - Safety,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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This document is intended to be used in conjunction with ISO 19085-1:2017, which gives requirements common to different machine types.

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 ISO 19085-1:2017, to the extent specified in the Scope of the applicable part of ISO 19085.

As far as possible, in parts of ISO 19085 other than ISO 19085-1:2017, safety requirements are referenced to the relevant sections of ISO 19085-1:2017, to avoid repetition and reduce their length. The other parts contain replacements and additions to the common requirements given in ISO 19085-1:2017.

Thus, Clauses 5, 6, 7 and 8 with their subclauses and the annexes of this part can either

— confirm as a whole,

— confirm with additions,

— exclude in total, or

— replace with specific text

the corresponding subclauses or annexes of ISO 19085-1:2017.

This interrelation is indicated in the first paragraph of each subclause right after the title by one of the following statements:

— “ISO 19085-1:2017, [subclause/Annex], applies.”;

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— “ISO 19085-1:2017, [subclause/Annex], does not apply.”;

— “ISO 19085-1:2017, [subclause/Annex], is replaced by the following text.” or “ISO 19085-1:2017, [subclause/Annex], is replaced by the following text, subdivided into further specific subclauses.”.

Specific subclauses and annexes in this document without correspondent in ISO 19085-1:2017 are indicated by the introductory sentence: “Subclause/Annex specific to this document.”.

Clauses 1, 2 and 4 replace the correspondent clauses of ISO 19085-1:2017, with no need for indication since they are specific to each part of the series.

NOTE Requirements for tools are given in EN 847-1:2017.

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

DV.2 ***Replace all references to "ISO 19085-1" and "ISO 19085-1:2017" with "CSA/ANSI C22.2 No. 19085-1" throughout this Standard.***

DV.3 ***In Canada, replace all references to "ISO 13857:2008" with "CSA ISO 13857" throughout this Standard.***

Woodworking machines — Safety — Part 13: Multi-blade rip sawing machines with manual loading and/or unloading

1 Scope

This document gives the safety requirements and measures for stationary multi-blade rip sawing machines manually loaded and/or unloaded, hereinafter referred to as "machines", designed to cut solid wood and material with similar physical characteristics to wood.

It deals with all significant hazards, hazardous situations and events as listed in Clause 4 relevant to machines, when operated, adjusted and maintained as intended and under the conditions foreseen by the manufacturer including reasonably foreseeable misuse. Also, transport, assembly, dismantling, disabling and scrapping phases are taken into account.

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

This document does not deal with specific hazards related to the combination of single machines with any other machine as part of a line.

It is not applicable to machines:

— with all saw blades spindles mounted below the workpiece support/level only;

— intended for use in potentially explosive atmosphere;

— manufactured prior to its publication.

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

This Standard applies to multi-blade rip sawing machines 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 CSA C22.2 No. 0.

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

ISO 12100:2010, *Safety of machinery — General principles for design — Risk assessment and risk reduction*

ISO 13849-1:2015, *Safety of machinery — Safety-related parts of control systems — Part 1: General principles for design*