



BSI Standards Publication

Woodworking machines – Safety

Part 10: Building site saws (contractor saws) (ISO 19085-10:2018)

National foreword

This British Standard is the UK implementation of EN ISO 19085-10:2019. It is identical to ISO 19085-10:2018. It supersedes BS EN 1870-19:2013, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee MTE/23, Woodworking machines.

A list of organizations represented on this committee can be obtained on request to its secretary.

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(ISO 19085-10:2018)Holzbearbeitungsmaschinen - Sicherheit - Teil 10:
Baustellenkreissägemaschinen (ISO 19085-10:2018)

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European foreword

This document (EN ISO 19085-10:2019) has been prepared by Technical Committee ISO/TC 39 "Machine tools" in collaboration with Technical Committee CEN/TC 142 "Woodworking machines - Safety" the secretariat of which is held by UNI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2019, and conflicting national standards shall be withdrawn at the latest by December 2019.

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

This document supersedes EN 1870-19:2013.

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

For the relationship with EU Directive(s) see informative Annex ZA, which is an integral part of this document.

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Endorsement notice

The text of ISO 19085-10:2018 has been approved by CEN as EN ISO 19085-10:2019 without any modification.

Annex ZA (informative)

Relationship between this European Standard and the essential requirements of EU Directive 2006/42/EC/ aimed to be covered

This European Standard has been prepared under a Commission's standardization request "M/396" to provide one voluntary means of conforming to essential requirements of the new approach Machinery Directive 2006/42.

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive, and associated EFTA regulations.

Table ZA.1 — Correspondence between this European Standard and Directive 2006/42/EC

| Essential Requirements (ERs) of Directive 2006/42/EC | Clause(s)/subclause(s) of this EN | Remarks/Notes |
|---|-----------------------------------|---------------|
| 1.1.2 Principles of safety integration | | |
| a) fitted for its function | Clause 5, 6, 7, 8 | |
| b) eliminate or reduce the risks, give measures, inform | Clause 5, 6, 7, 8 | |
| c) intended use and reasonably foreseeable misuse | Clause 5, 6, 7, 8 | |
| d) constraints in use | 7.5, 8.3 | |
| e) equipment | 6.1 | |
| 1.1.3 Materials and products | 6.2 | |
| 1.1.4 Lighting | 8.3 | |
| 1.1.5 Design of machinery to facilitate its handling | 8.3 | |
| 1.1.6 Ergonomics | 7.5 | |
| 1.1.7 Operating position | 5.2 | |
| 1.2.1 Safety and reliability of control systems | 5.1, 5.8, 5.12, 7.11 | |
| 1.2.2 Control devices | 5.2, 5.3, 5.4 | |
| 1.2.3 Starting | 5.3 | |
| 1.2.4 Stopping | 5.4, 5.5, 6.4 | |
| 1.2.4.1 Normal stop | 5.4.2 | |
| 1.2.6 Failure of the power supply | 5.8 | |
| 1.2.8 Software | 5.1 | |
| 1.3.1 Risk of loss of stability | 6.1, 8.3 | |
| 1.3.2 Risk of break-up during operation | 6.2, 8.3 | |
| 1.3.3 Risks due to falling or ejected objects | 6.2, 6.3, 6.5, 6.9, 8.3 | |

| | | |
|--|------------------------------|--|
| 1.3.4 Risk due to surfaces, edges or angles | | |
| 1.3.7 Risks related to moving parts | 6.5, 6.6, 8.3 | |
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| d) accidental tool contact | 6.6.2 | |

WARNING 1 — Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this document should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 — Other Union legislation may be applicable to the product(s) falling within the scope of this document.

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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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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.

This document was prepared by Technical Committee ISO/TC 39, *Machine tools*, Subcommittee SC 4, *Woodworking machines*.

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.

This corrected version of ISO 19085-10:2018 incorporates the following corrections:

- the sentence about list item o) has been moved from [8.2.1](#) to [8.3.1](#);
- additional information has been added in [8.3.2 g](#));
- minor editorial corrections have been made.

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 document, 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 or annex right after the title by one of the following statements:

- “This subclause of ISO 19085-1:2017 applies.”;
- “This subclause of ISO 19085-1:2017 applies with the following additions.”, or “This subclause of ISO 19085-1:2017 applies with the following additions, subdivided into further specific subclauses.”;
- “This subclause of ISO 19085-1:2017 does not apply.”;
- “This subclause of ISO 19085-1:2017 is replaced by the following text.”, or “This subclause of ISO 19085-1:2017 is replaced by the following text, subdivided into further specific subclauses.”.

Specific subclauses and annexes in this part of ISO 19085 without correspondent in ISO 19085-1:2017 are indicated by the introductory sentence: “Subclause (or annex) specific to this part of ISO 19085.”

Clauses 1, 2, 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 847-1:2013.

Woodworking machines — Safety —

Part 10: Building site saws (contractor saws)

1 Scope

This document gives the safety requirements and measures for displaceable building site saws, designed to cut wood and materials with similar physical characteristics to wood, hereinafter referred to as “machines”.

NOTE 1 For the definition of *displaceable machine*, see ISO 19085-1:2017, 3.5.

It deals with all significant hazards, hazardous situations and events as listed in [Clause 4](#), relevant to the 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 have been taken into account.

NOTE 2 For relevant but not significant hazards, e.g. sharp edges of the machine frame, see ISO 12100:2010.

The machine can also be fitted with a device for the saw blade to be manually raised and lowered through the table, whose hazards have been dealt with.

This document does not apply to the following:

- a) machines with a maximum saw blade diameter smaller than 350 mm or greater than 500 mm;
- b) hand-held woodworking machines, including any adaptation permitting their use in a different mode, i.e. bench mounting;
- c) machines with a device to tilt the saw blade for angle cutting, machines with more than one saw blade rotational speed and machines equipped with a sliding table;

NOTE 3 Hand-held motor-operated electric tools are covered by IEC 62841-1 together with IEC 62841-2-5.

NOTE 4 Machines with the device to tilt the saw blade for angle cutting, machines with more than one saw blade rotational speed and machines equipped with a sliding table are considered as table saws, covered by ISO 19085-9.

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

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 4871:1996, *Acoustics — Declaration and verification of noise emission values of machinery and equipment*

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*