



ISO 19085-4

**Woodworking machines — Safety —
Part 4:
Vertical panel circular sawing
machines**

Machines à bois — Sécurité —

Partie 4: Scies circulaires à panneaux verticales

**Second edition
2024-07**

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Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	2
3 Terms and definitions	2
4 Safety requirements and measures for controls	6
4.1 Safety and reliability of control systems.....	6
4.2 Control devices.....	6
4.3 Start.....	6
4.3.1 Direct start.....	6
4.3.2 Start via control power-on.....	7
4.4 Safe stops.....	7
4.4.1 General.....	7
4.4.2 Normal stop.....	7
4.4.3 Operational stop.....	7
4.4.4 Emergency stop.....	7
4.5 Braking function of tools.....	7
4.6 Mode selection.....	8
4.7 Tool speed changing.....	8
4.7.1 Speed changing by shifting the belts on the pulleys.....	8
4.7.2 Speed changing by incremental speed change motor.....	8
4.7.3 Infinitely variable speed by frequency inverter.....	8
4.8 Failure of any power supply.....	8
4.9 Manual reset control.....	8
4.10 Standstill detection and monitoring.....	8
4.11 Machine moving parts speed monitoring.....	8
4.12 Time delay.....	8
4.13 Teleservice.....	8
5 Safety requirements and measures for protection against mechanical hazards	9
5.1 Stability.....	9
5.2 Risk of break-up during operation.....	9
5.3 Tool holder and tool design.....	9
5.3.1 General.....	9
5.3.2 Spindle locking.....	9
5.3.3 Circular saw blade fixing device.....	9
5.3.4 Flange dimension for circular saw blades.....	9
5.4 Braking.....	9
5.4.1 Braking of tools.....	9
5.4.2 Maximum run-down time.....	9
5.4.3 Brake release.....	9
5.5 Safeguards.....	10
5.5.1 Fixed guards.....	10
5.5.2 Interlocking movable guards.....	10
5.5.3 Hold-to-run control.....	10
5.5.4 Two-hand control.....	10
5.5.5 Electro-sensitive protective equipment (ESPE).....	10
5.5.6 Pressure-sensitive protective equipment (PSPE).....	10
5.5.7 Enabling control.....	11
5.6 Prevention of access to hazardous moving parts.....	11
5.6.1 Guarding of tools.....	11
5.6.2 Safeguarding of shearing and crushing zones.....	13
5.6.3 Guarding of the rear side.....	13
5.6.4 Guarding of drives.....	13

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5.9	Measures against ejection.....	14
5.9.1	General.....	14
5.9.2	Guards materials and characteristics.....	14
5.9.3	Anti-kickback devices.....	14
5.10	Workpiece supports and guides.....	16
5.10.1	Workpiece support.....	16
5.10.2	Middle support device.....	16
5.10.3	Angle cutting device.....	16
6	Safety requirements and measures for protection against other hazards.....	17
6.1	Fire.....	17
6.2	Noise.....	17
6.2.1	Noise reduction at the design stage.....	17
6.2.2	Noise emission measurement.....	17
6.3	Emission of chips and dust.....	17
6.4	Electricity.....	17
6.5	Ergonomics and handling.....	17
6.6	Lighting.....	18
6.7	Pneumatics.....	18
6.8	Hydraulics.....	18
6.9	Electromagnetic compatibility.....	18
6.10	Laser.....	19
6.11	Static electricity.....	19
6.12	Errors of fitting.....	19
6.13	Isolation.....	19
6.14	Maintenance.....	19
6.15	Relevant but not significant hazards.....	19
7	Information for use.....	19
7.1	Warning devices.....	19
7.2	Marking.....	19
7.2.1	General.....	19
7.2.2	Additional markings.....	19
7.3	Instruction handbook.....	20
7.3.1	General.....	20
7.3.2	Additional information.....	20
Annex A	(informative) List of significant hazards.....	21
Annex B	(informative) Performance level required.....	23
Annex C	(informative) Stability test.....	25
Annex D	(normative) Test for braking function.....	26
Annex E	(normative) Impact test for guards.....	27
Annex F	(normative) Noise test code.....	28
Annex G	(normative) Riving knife rigidity tests.....	31

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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).

This second edition cancels and replaces the first edition (ISO 19085-4:2018), which has been technically revised.

The main changes are as follows:

- the Scope now specifies that machines are intended for continuous production use;
- the main definitions have been improved (machine and cutting cycle) with the addition of defined intermediate terms;
- the list of significant hazards has been moved to a new [Annex A](#);
- the structure has been simplified and modified, in particular in [5.6](#);
- the panel lowering device and relevant requirements have been added;
- [subclause 6.2](#) has been updated and a new full noise test code has been added in [Annex F](#).

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

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The ISO 19085 series provides technical safety requirements for the design and construction of woodworking machinery, as well as for the content of the relevant instruction handbook. It concerns designers, manufacturers, suppliers and importers of the machines specified in the Scope.

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

This document is of relevance, in particular, for the following stakeholder groups representing the market players with regard to machinery safety:

- machine manufacturers (small, medium and large enterprises);
- health and safety bodies (e.g. regulators, accident prevention organisations, market surveillance).

Others can be affected by the level of machinery safety achieved with the means of the document by the above-mentioned stakeholder groups:

- machine users/employers (small, medium and large enterprises);
- machine users/employees (e.g. trade unions, organizations for people with special needs);
- service providers, for example, for maintenance (small, medium and large enterprises);
- consumers (in case of machinery intended for use by consumers).

The above-mentioned stakeholder groups have been given the possibility to participate in the drafting process of this document.

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 (as defined in ISO 12100), 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 the ISO 19085 series applicable to that type, together with the relevant requirements from ISO 19085-1, to the extent specified in the Scope of the applicable part of the ISO 19085 series.

As far as possible, the safety requirements of parts of the ISO 19085 series refer to the relevant subclauses of ISO 19085-1. Each part includes replacements and additions to the common requirements given in ISO 19085-1.

All parts of the ISO 19085 series have the same structure, so that reference to ISO 19085-1 is made always and only from and to the same subclause number at the last indent level.

[Clauses 1](#) to [3](#) are specific to each part and, therefore are distinct from ISO 19085-1:2021, Clauses 1 to 3.

For [Clauses 4](#) to [7](#) and the annexes, each subclause in ISO 19085-1:2021 is cited as either:

- confirmed as a whole;
- confirmed with additions;
- excluded entirely; or
- replaced with specific text.

This is indicated by one of the following possible statements:

- “ISO 19085-1:2021, [subclause/Annex], applies”;

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- “ISO 19085-1:2021, [subclause/Annex], does not apply.”;
- “ISO 19085-1:2021, [subclause/Annex], is replaced by the following text.” or “ISO 19085-1:2021, [subclause/Annex], is replaced by the following text, subdivided into further specific subclauses.”.

Other subclauses and annexes specific to this document are indicated by the introductory sentence: “Subclause/Annex specific to this document.”.