
Lesnoobdelovalni stroji - Varnost - 11. del: Kombinirani stroji (ISO/DIS 19085-11:2026)

Woodworking machines - Safety - Part 11: Combined machines (ISO/DIS 19085-11:2026)

Holzbearbeitungsmaschinen - Sicherheit - Teil 11: Kombinierte Maschinen (ISO/DIS 19085-11:2026)

Machines à bois - Sécurité - Partie 11: Machines combinées (ISO/DIS 19085-11:2026)

Ta slovenski standard je istoveten z: prEN ISO 19085-11

ICS:

13.110	Varnost strojev	Safety of machinery
79.120.10	Lesnoobdelovalni stroji	Woodworking machines

oSIST prEN ISO 19085-11:2026 **en,fr,de**

Sample Document

get full document from standards.iteh.ai



DRAFT International Standard

ISO/DIS 19085-11

Woodworking machines — Safety — Part 11: Combined machines

*Machines à bois — Sécurité —
Partie 11: Machines combinées*

ICS: 79.120.10; 13.110

ISO/TC 39/SC 4

Secretariat: **UNI**

Voting begins on:
2026-07-08

Voting terminates on:
2026-09-30

This document has not been edited by the ISO Central Secretariat.

ISO/CEN PARALLEL PROCESSING

Reference number
ISO/DIS 19085-11:2026(en)

THIS DOCUMENT IS A DRAFT CIRCULATED FOR COMMENTS AND APPROVAL. IT IS THEREFORE SUBJECT TO CHANGE AND MAY NOT BE REFERRED TO AS AN INTERNATIONAL STANDARD UNTIL PUBLISHED AS SUCH.

IN ADDITION TO THEIR EVALUATION AS BEING ACCEPTABLE FOR INDUSTRIAL, TECHNOLOGICAL, COMMERCIAL AND USER PURPOSES, DRAFT INTERNATIONAL STANDARDS MAY ON OCCASION HAVE TO BE CONSIDERED IN THE LIGHT OF THEIR POTENTIAL TO BECOME STANDARDS TO WHICH REFERENCE MAY BE MADE IN NATIONAL REGULATIONS.

RECIPIENTS OF THIS DRAFT ARE INVITED TO SUBMIT, WITH THEIR COMMENTS, NOTIFICATION OF ANY RELEVANT PATENT RIGHTS OF WHICH THEY ARE AWARE AND TO PROVIDE SUPPORTING DOCUMENTATION.

© ISO 2026

Sample Document

get full document from standards.iteh.ai



COPYRIGHT PROTECTED DOCUMENT

© ISO 2026

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

ISO/DIS 19085-11:2026(en)

Contents

Page

Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Safety requirements and measures for controls	5
4.1 Safety and reliability of control systems	5
4.2 Control devices	6
4.2.1 General	6
4.2.2 Hand-held control set	6
4.2.3 Reset device	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 Stop function	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 Operating modes	7
4.7 Tool speed	7
4.7.1 Speed change by shifting the belts on the pulleys	7
4.7.2 Speed change by incremental speed change motor	7
4.7.3 Speed control by frequency inverter	8
4.7.4 Spindle speed limiting device for tenoning	8
4.7.5 Changing of the direction of spindle rotation	8
4.8 Failure of any energy supply	8
4.9 Manual reset control	8
4.10 Standstill detection	8
4.11 Machine moving parts speed monitoring	8
4.12 Time delay	8
4.13 Teleservice	8
4.14 Protection against corruption	8
4.15 Power-driven adjustments	8
5 Safety requirements and protective measures against mechanical hazards	9
5.1 Stability	9
5.2 Risk of break-up during operation	9
5.3 Tool and tool fixing 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 dimensions for circular saw blades	9
5.3.5 Arbor rings/fixing device for milling tools	10
5.3.6 Quick tool/arbor change system	10
5.3.7 Manual adjustment of arbor height	10
5.3.8 Manual adjustment of arbor inclination	10
5.4 Tool brake	10
5.5 Safeguards	10
5.5.1 Fixed guards	10
5.5.2 Interlocking movable guards	10
5.5.3 Hold-to-run control	11
5.5.4 Two hand control	11

ISO/DIS 19085-11:2026(en)

5.5.5	Electro-sensitive protection equipment (ESPE).....	11
5.5.6	Pressure sensitive protection equipment (PSPE)	11
5.5.7	Enabling control device.....	11
5.6	Prevention of access to hazardous moving parts.....	11
5.7	Impact hazard	11
5.8	Clamping devices.....	12
5.9	Measures against ejection.....	12
5.9.1	General	12
5.9.2	Guards of class A, materials and thickness.....	12
5.9.3	Guards of class B, materials and thickness.....	12
5.9.4	Anti-kickback devices.....	12
5.10	Workpiece supports and guides.....	12
5.11	Safety appliances.....	14
5.12	Elements not in use.....	14
5.13	Adjustments in tenoning-sawing mode.....	14
6	Safety requirements and protective measures against other hazards.....	14
6.1	Fire	14
6.2	Noise	15
6.2.1	Noise reduction at the design stage	15
6.2.2	Noise emission measurement and declaration	15
6.3	Emission of chips and dust.....	15
6.4	Electricity.....	15
6.5	Ergonomics and handling.....	15
6.6	Lighting.....	15
6.7	Pneumatics.....	15
6.8	Hydraulics.....	15
6.9	Electromagnetic compatibility.....	15
6.10	Laser	16
6.11	Static electricity.....	16
6.12	Errors of fitting.....	16
6.13	Isolation.....	16
6.14	Maintenance.....	16
6.15	Relevant but not significant hazards.....	16
7	Information	16
7.1	Warning devices.....	16
7.2	Marking.....	16
7.2.1	Marking principles and methods.....	16
7.2.2	Marking content.....	16
7.3	Instructions for use.....	17
7.3.1	Instructions principles and drafting.....	17
7.3.2	Instructions content.....	17
7.4	Sales literature	17
	Annex A (informative) List of significant hazards.....	18
	Annex B (informative) Performance level required.....	20
	Annex C (normative) Brake test.....	21
	Annex D (normative) Impact test for guards.....	22
	Annex E (normative) Noise test code	23
	Annex F (normative) Stability test.....	26
	Annex ZA (informative) ZA Relationship between this European Standard and the essential requirements of Regulation (EU) 2023/1230 aimed to be covered	27
	Bibliography.....	29

ISO/DIS 19085-11:2026(en)

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 document 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).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

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

For an explanation of 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 www.iso.org/iso/foreword.html.

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 document is intended to be used in conjunction with ISO DIS 19085-1:2025.

This third edition cancels and replaces the second edition (ISO 19085-11:2024), which has been technically revised. The main changes are as follows:

- the way of reference from this document to ISO DIS 19085-1:2025 has been simplified, as well as its explanation in Introduction, and aligned to ISO drafting rules;
- the verification methods at the end of each subclause have been deleted, since self-evident;
- [4.2](#), [7.2](#), [7.3](#) have been rearranged, to follow the new subdivision in ISO DIS 19085-1:2025;
- [5.4](#), [5.9](#) have been simplified in structure, for easier reading.

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

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

ISO/DIS 19085-11:2026(en)

Introduction

The ISO 19085 series of International Standards 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 stated in ISO 12100:2010.

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, e.g. 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 12100:2010), 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.

In this document, a subclause can refer to the same subclause of any document among ISO DIS 19085-1:2025, ISO DIS 19085-5:2026, ISO DIS 19085-6:2026, ISO DIS 19085-7:2026, ISO DIS 19085-9:2026, or give specific requirements, or both.

Woodworking machines — Safety —

Part 11: Combined machines

1 Scope

This document specifies the safety requirements and measures for combined woodworking machines (defined in 3.1), capable of continuous production use, with manual loading and unloading of the workpiece and hereinafter referred to also as “machines”.

The machines are designed to cut solid wood and material with similar physical characteristics to wood (see ISO DIS 19085-1:2025, 3.2).

This document deals with all significant hazards, hazardous situations or hazardous events, listed in [Annex A](#), relevant to the machines when they are used as intended and under conditions of misuse which are reasonably foreseeable.

This document is also applicable to the other life cycle phases of the machines: transport, assembly, adjustment, maintenance, disabling, dismantling and scrapping.

This document applies to machines also equipped with the devices or additional working units listed in the Scopes of ISO DIS 19085-5:2026, excluded AIMS, ISO DIS 19085-6:2026, ISO DIS 19085-7:2026 and ISO DIS 19085-9:2026.

This document does not apply to:

- a) machines incorporating a planing unit and a mortising device only;

NOTE Machines incorporating a planing unit and a mortising device only are dealt with in ISO DIS 19085-7:2026.

- b) combined machines incorporating a band saw unit;
- c) machines with a mortising unit with a separate drive other than the planing unit drive;
- d) machines intended for use in potentially explosive atmosphere;
- e) machines manufactured before the publication of this document.

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

ISO/DIS 19085-1:2025, *Woodworking machines — Safety — Part 1: Common requirements*

ISO/DIS 19085-5:2026, *Woodworking machines — Safety — Part 5: Dimension saws*

ISO/DIS 19085-6:2026, *Woodworking machines — Safety — Part 6: Single spindle vertical moulding machines (toupie)*