ICS 65.060.80 SLOVENSKÁ TECHNICKÁ NORMA Február 2026

STN	**Lesnícke stroje Bezpečnostné požiadavky a skúšanie prenosných motorových odvetvovacích píl (ISO 11680: 2025)**	**STN EN ISO 11680** 47 9022

Machinery for forestry - Safety requirements and testing for portable pole mounted powered pruners (ISO 11680:2025)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/26

Obsahuje: EN ISO 11680:2025, ISO 11680:2025

Oznámením tejto normy sa ruší
STN EN ISO 11680-1 (47 9022) z februára 2022

STN EN ISO 11680-2 (47 9022) z februára 2022

141933

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 11680

September 2025

ICS 65.060.80

Supersedes EN ISO 11680-1:2021, EN ISO 11680-2:2021

English Version

Machinery for forestry - Safety requirements and testing for portable pole mounted powered pruners (ISO 11680:2025)

Matériel forestier - Exigences de sécurité et essais pour les perches élagueuses à moteur (ISO 11680:2025)

Forstmaschinen - Sicherheitstechnische Anforderungen und Prüfung für motorbetriebene Hochentaster (ISO 11680:2025)

This European Standard was approved by CEN on 6 June 2025.

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COMITÉ EUROPÉEN DE NORMALISATION
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Ref. No. EN ISO 11680:2025 E

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European foreword

This document (EN ISO 11680:2025) has been prepared by Technical Committee ISO/TC 23 "Tractors and machinery for agriculture and forestry" in collaboration with Technical Committee CEN/TC 144 “Tractors and machinery for agriculture and forestry” the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by March 2026, and conflicting national standards shall be withdrawn at the latest by March 2026.

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 ISO 11680-1:2021 and EN ISO 11680-2:2021.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

Any feedback and questions on this document should be directed to the users’ national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Endorsement notice

The text of ISO 11680:2025 has been approved by CEN as EN ISO 11680:2025 without any modification.

Annex ZA
(informative)

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

This European Standard has been prepared under a Commission's standardization request "M/396 Mandate to CEN and CENELEC for standardisation in the field of machinery" to provide one voluntary means of conforming to essential requirements of the Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC (recast).

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 Annex I of Directive 2006/42/EC

The relevant Essential Requirements of Directive 2006/42/EC	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
1. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS		
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1.1.5. Design of machinery to facilitate its handling	4.3; 4.4	
1.1.6. Ergonomics	4.3; 4.4	
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1.2.3. Starting	4.8; 4.10	
1.2.4. Stopping		
1.2.4.1. Normal stop	4.9	
1.3. PROTECTION AGAINST		

The relevant Essential Requirements of Directive 2006/42/EC	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
MECHANICAL HAZARDS		
1.3.1. Risk of loss of stability	-	not covered
1.3.2. Risk of break-up during operation	4.5; 4.19; 4.20; 4.21; 5.1	
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1.3.4. Risks due to surfaces, edges or angles	4.6	
1.3.6. Risks related to variations in operating conditions	4.10	
1.3.7. Risks related to moving parts	4.2; 4.7; 4.11	
1.3.8. Choice of protection against risks arising from moving parts		
1.3.8.1. Moving transmission parts	4.2	
1.3.9. Risks of uncontrolled movements	4.10; 4.11	
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1.4.2.2. Interlocking movable guards	-	not covered
1.4.2.3. Adjustable guards restricting access	-	not covered
1.4.3. Special requirements for protective devices	4.7; 4.10.2.1; 4.11	
1.5. RISKS DUE TO OTHER HAZARDS		
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1.5.4. Errors of fitting	4.12.1	
1.5.5. Extreme temperatures	4.14	

The relevant Essential Requirements of Directive 2006/42/EC	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
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1.5.9. Vibrations		not covered
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1.6.2. Access to operating positions and servicing points	-	not covered
1.6.3. Isolation of energy sources	4.9	
1.6.5. Cleaning of internal parts	-	not covered
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1.7.1.1. Information and information devices	5.2	
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2.2.1. General	4.3; 4.9; 4.10; 4.11	

The relevant Essential Requirements of Directive 2006/42/EC	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
2.2.1.1. Instructions	5.1	

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 standard 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 standard.

International Standard

ISO 11680

Machinery for forestry — Safety requirements and testing for portable pole mounted powered pruners

Matériel forestier — Exigences de sécurité et essais pour les perches élagueuses à moteur

First edition
2025-06

Reference number
ISO 11680:2025(en)

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Published in Switzerland

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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 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 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 17, *Manually portable (hand-held) powered lawn and garden equipment and forest machinery*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 144, *Tractors and machinery for agriculture and forestry,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This first edition of ISO 11680 cancels and replaces ISO 11680-1:2021 and ISO 11680-2:2021, which have been technically revised.

The main changes are as follows:

— the requirements have been combined into a single standard;

— in 4.3.1:

  — the handle's minimal gripping length requirements (from 65 mm to 63 mm) has been revised to harmonize with IEC standards;

  — a 25 mm dimensional requirement around the gripping length has been added;

— in 4.5.3 and Figure 6, a new requirement for cutting attachment strength test set-up for machines with a backpack has been added;

— in 4.7.1 and Figure 7, the distance to cutting attachments measurements has been clarified;

— in 4.10.2.2, a maximum throttle linkage actuation test force (“200 N") has been added;

— the minimum number of tests (“at least one”) and determination of test directions (“good engineering judgement”) for fuel feed lines strength and accessibility testings have been clarified;

— in Annex B, the 200 mm of the test probe is the free length after mounting.

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.

Introduction

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 (regulators, accident prevention organisations, market surveillance, etc.).

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 at 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, 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.

International Standard **ISO 11680:2025(en)**

Machinery for forestry — Safety requirements and testing for portable pole mounted powered pruners

1 Scope

This document specifies safety requirements, and measures for their verification, for the design and construction of portable pole-mounted powered pruners with internal combustion engine power sources (hereafter named “machine”), including extendable and telescopic machines. These machines use a power transmission shaft to transmit power to a cutting attachment consisting of a saw-chain and guide bar, a reciprocating saw blade or a single-piece circular saw blade with a 205 mm maximum outside diameter.

This document deals with significant hazards relevant to these machines when they are used as intended. This document does not address electrical shock from contact with overhead electric lines apart from warnings and instruction manual requirements, or whole-body vibration from back power units.

NOTE 1 See Annex A for a list of significant hazards.

This document is applicable to machines manufactured after its date of publication.

Brush cutters with a circular saw blade are not included in the scope of this document.

NOTE 2 Brush cutter requirements are outlined in ISO 11806-1 and ISO 11806-2.

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 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 6531:2024, *Machinery for forestry — Portable chain-saws — Vocabulary*

ISO 7112:2018, *Machinery for forestry — Portable brush-cutters and grass-trimmers — Vocabulary*

ISO 7113:1999, *Portable hand-held forestry machines — Cutting attachments for brush cutters — Single-piece metal blades*

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

ISO 13857:2019, *Safety of machinery — Safety distances to prevent hazard zones being reached by upper and lower limbs*

ISO 14982:1998, *Agricultural and forestry machinery — Electromagnetic compatibility — Test methods and acceptance criteria*

ISO 22867:2021, *Forestry and gardening machinery — Vibration test code for portable hand-held machines with internal combustion engine — Vibration at the handles*

ISO 22868:2021, *Forestry and gardening machinery — Noise test code for portable hand-held machines with internal combustion engine — Engineering method (Grade 2 accuracy)*

IEC 61032:1997, *Protection of persons and equipment by enclosures — Probes for verification*