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TRANSPORDITAVAD TÖÖRIISTAD JA MURU- NING
AIATÖÖMASINAD. OHUTUS. OSA 4-2: ERINÕUDED
HEKILÕIKURITELE**

**Electric motor-operated hand-held tools, transportable
tools and lawn and garden machinery - Safety -
Part 4-2: Particular requirements for hedge trimmers
(IEC 62841-4-2:2017 , modified + COR1:2018 +
IEC 62841-4-2:2017/AMD1:2022)**



EESTI STANDARDI EESSÕNA**NATIONAL FOREWORD**

See Eesti standard EVS-EN 62841-4-2:2019+A1+A1:2022 sisaldb Euroopa standardi EN 62841-4-2:2019 ja selle muudatuste A1:2022 ja A11:2022 ingliskeelset teksti.	This Estonian standard EVS-EN 62841-4-2:2019+A1+A1:2022 consists of the English text of the European standard EN 62841-4-2:2019 and its amendments A1:2022 and A11:2022.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas. Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 28.06.2019, muudatused A1 15.07.2022 ja A11 15.07.2022.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation. Date of Availability of the European standard is 28.06.2019, for A1 15.07.2022 and A11 15.07.2022.
Muudatusega A1 lisatud või muudetud teksti algus ja lõpp on tekstis tähistatud sümbolitega [A1] ⟨A1⟩ . Muudatusega A11 lisatud või muudetud teksti algus ja lõpp on tekstis tähistatud sümbolitega [A11] ⟨A11⟩ . Selles standardis on rahvusvahelise standardi ühismuudatused tähistatud püstkriipsuga teksti vasakul veerisel. Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.	The start and finish of text introduced or altered by amendment A1 is indicated in the text by tags [A1] ⟨A1⟩ . The start and finish of text introduced or altered by amendment A11 is indicated in the text by tags [A11] ⟨A11⟩ . In this document, the common modifications to the International Standard are indicated by a vertical line in the left margin of the text. The standard is available from the Estonian Centre for Standardisation and Accreditation.

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NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 62841-4-2 + A1 + A11

June 2019, July 2022,.. July 2022

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English Version

**Electric motor-operated hand-held tools, transportable tools and
lawn and garden machinery - Safety - Part 4-2: Particular
requirements for hedge trimmers**
(IEC 62841-4-2:2017 , modified + COR1:2018 + IEC 62841-4-
2:2017/AMD1:2022)

Outils électroportatifs à moteur, outils portables et machines
pour jardins et pelouses - Sécurité - Partie 4-2: Exigences
particulières pour les taille-haies
(IEC 62841-4-2:2017 , modifiée + COR1:2018 + IEC 62841-
4-2:2017/AMD1:2022)

Elektrische motorbetriebene handgeführte Werkzeuge,
transportable Werkzeuge und Rasen- und
Gartenmaschinen - Sicherheit - Teil 4-2: Besondere
Anforderungen für Heckenscheren
(IEC 62841-4-2:2017 , modifiziert + COR1:2018 + IEC
62841-4-2:2017/AMD1:2022)

This European Standard was approved by CENELEC on 2018-01-18. Amendment A1 was approved by CENELEC on 2022-06-15. Amendment A11 was approved by CENELEC on 2022-05-30. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard and its amendments the status of a national standard without any alteration.

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

The text of document 116/346/FDIS, future edition 1 of IEC 62841-4-2, prepared by IEC/TC 116 "Safety of motor-operated electric tools" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62841-4-2:2019.

A draft amendment, which covers common modifications to IEC 62841-4-2, was prepared by CLC/TC 116 "Safety of motor-operated electric tools" and approved by CENELEC.

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2019-12-28
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2023-06-28

EN 62841-4-2:2019 supersedes EN 60745-2-15:2009 + A1:2010.

This European Standard is divided into four parts:

- Part 1: General requirements which are common to most hand-held electric motor operated tools (for the purpose of this standard referred to simply as tools) which could come within the scope of this standard;
- Part 2, 3 or 4: Requirements for particular types of tools which either supplement or modify the requirements given in Part 1 to account for the particular hazards and characteristics of these specific tools.

This Part 4-2 is to be used in conjunction with EN 62841-1:2015.

This Part 4-2 supplements or modifies the corresponding clauses in EN 62841-1:2015, so as to convert it into the European Standard: Particular requirements for hedge trimmers.

Where a particular subclause of Part 1 is not mentioned in this Part 4-1, that subclause applies as far as relevant. When this standard states "addition", "modification" or "replacement", the relevant text in Part 1 is to be adapted accordingly.

The following print types are used:

- requirements; in roman type
- *test specifications*: in italic type;
- notes: in smaller roman type.

The terms defined in Clause 3 are printed in **bold typeface**.

Subclauses, notes, tables and figures which are additional to those in Part 1 are numbered starting from 101.

Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62841-4-2:2017 are prefixed "Z".

This European Standard follows the overall requirements of EN ISO 12100.

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This document has been prepared under a mandate given to CENELEC 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 ZZ, which is an integral part of this document.

Compliance with the clauses of Part 1 together with this Part 4-2 provides one means of conforming with the essential health and safety requirements of the Directive concerned.

Endorsement notice

The text of the International Standard IEC 62841-4-2:2017 and COR1:2018 was approved by CENELEC as a European Standard with agreed common modifications.

[A1] Amendment A1 European foreword

The text of document 116/578/FDIS, future IEC 62841-4-2/AMD1, prepared by IEC/TC 116 "Safety of motor-operated electric tools" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62841-4-2:2019/A1:2022.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2023-05-30
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2026-05-30

EN 62841-4-2:2019/A1:2022 introduces various clarifications and corrections to different clauses, in particular for the moisture resistance of hedge trimmers. In addition, corrections to the noise test code are made.

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For the relationship with EU Directive(s) / Regulation(s), see informative Annex ZZ, which is an integral part of EN 62841-4-2:2019/A11:2022.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 62841-4-2:2017/AMD1:2022 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 62841-4-5 NOTE Harmonized as EN IEC 62841-4-5

[A1]

[A₁₁] Amendment A11 European foreword

This document (EN 62841-4-2:2019/A11:2022) has been prepared by CLC/TC 116 "Safety and environmental aspects of motor-operated electric tools".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2023-05-30
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2026-05-30

This document amends EN 62841-4-2:2019/A1:2022.

EN 62841-4-2:2019/A1:2022 introduces various clarifications and corrections to different clauses, in particular for the moisture resistance of hedge trimmers. In addition, corrections to the noise test code are made.

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

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IEC 62841-4-2

Edition 1.1 2022-05
CONSOLIDATED VERSION

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety –
Part 4-2: Particular requirements for hedge trimmers**

**Outils électroportatifs à moteur, outils portables et machines pour jardins et pelouses – Sécurité –
Partie 4-2: Exigences particulières pour les taille-haies**





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NORME INTERNATIONALE



Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety –

Part 4-2: Particular requirements for hedge trimmers

Outils électroportatifs à moteur, outils portables et machines pour jardins et pelouses – Sécurité –

Partie 4-2: Exigences particulières pour les taille-haies

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRIC MOTOR-OPERATED HAND-HELD TOOLS,
TRANSPORTABLE TOOLS AND LAWN AND GARDEN MACHINERY –
SAFETY –****Part 4-2: Particular requirements for hedge trimmers****FOREWORD**

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 62841-4-2 has been prepared by IEC technical committee 116: Safety of motor-operated electric tools.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
116/346/FDIS	116/352/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

This Part 4-2 is to be used in conjunction with the first edition of IEC 62841-1 (2014).

This Part 4-2 supplements or modifies the corresponding clauses in IEC 62841-1, so as to convert it into the IEC Standard: Particular requirements for hedge trimmers.

Where a particular subclause of Part 1 is not mentioned in this Part 4-2, that subclause applies as far as relevant. Where this standard states "addition", "modification" or "replacement", the relevant text in Part 1 is to be adapted accordingly.

The following print types are used:

- requirements: in roman type;
- *test specifications*: in italic type;
- notes: in small roman type.

The terms defined in Clause 3 are printed in **bold typeface**.

Subclauses, notes, tables and figures which are additional to those in Part 1, except as described for Annex K and Annex L below, are numbered starting from 101.

Subclauses, notes, tables and figures in Annex K and Annex L which are additional to those in the main body of this Part 4-2 as well as Annex K and Annex L of Part 1 are numbered starting from 301.

A list of all parts of the IEC 62841 series, under the general title: *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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It is the recommendation of the committee that the content of this publication be adopted for implementation nationally not earlier than 36 months from the date of publication.

The contents of the corrigendum of June 2018 have been included in this copy.

A1 AMENDMENT A1 FOREWORD

Amendment 1 to IEC 62841-4-2:2017 has been prepared by IEC technical committee 116: Safety of motor-operated electric tools.

The text of this Amendment is based on the following documents:

Draft	Report on voting
116/578/FDIS	116/586/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this Amendment is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications/.

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NOTE The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations may need a transitional period following publication of a new, amended or revised IEC publication in which to make products in accordance with the new requirements and to equip themselves for conducting new or revised tests.

It is the recommendation of the committee that the content of this publication be adopted for implementation nationally not earlier than 36 months from the date of publication. A1

[A1] INTRODUCTION

The International Electrotechnical Commission (IEC) draws attention to the fact that it is claimed that compliance with this document may involve the use of a patent. IEC takes no position concerning the evidence, validity, and scope of this patent right.

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ELECTRIC MOTOR-OPERATED HAND-HELD TOOLS, TRANSPORTABLE TOOLS AND LAWN AND GARDEN MACHINERY – SAFETY –

Part 4-2: Particular requirements for hedge trimmers

1 Scope

This clause of Part 1 is applicable, except as follows:

Addition:

This standard applies to hand-held **hedge trimmers** which are designed for use by one operator for trimming hedges and bushes, including **extended-reach hedge trimmers** with a maximum length of 3,5 m.

NOTE 101 The measurement of the length for **extended-reach hedge trimmers** is specified in 21.101.

This standard is not applicable to **hedge trimmers** with a rotating blade.

This standard is not applicable to scissors type grass shears.

[A1] NOTE 102 Scissors type grass shears are covered by IEC 60335-2-94 or IEC 62841-4-5. **[A1]**

[A1] This document covers all significant hazards, hazardous situations or hazardous events relevant for machines covered by this document.

NOTE Z101 Essential requirements not mentioned in Table ZZ.1 are deemed to be not applicable, because the corresponding hazards are either not relevant for machines covered by this document or do not require specific action by the designer. **[A1]**

2 Normative references

This clause of Part 1 is applicable, except as follows:

Addition:

IEC 61672-1, *Electroacoustics – Sound level meters – Part 1: Specifications*

ISO 354:2003, *Acoustics – Measurement of sound absorption in a reverberation room*

ISO 11684, *Tractors, machinery for agriculture and forestry, powered lawn and garden equipment – Safety signs and hazard pictorials – General principles*

ISO 22868:2011, *Forestry and gardening machinery – Noise test code for portable hand-held machines with internal combustion engine – Engineering method (Grade 2 accuracy)*

[A1] IEC 60664-3:2016, *Insulation coordination for equipment within low-voltage systems – Part 3: Use of coating, potting or moulding for protection against pollution*

IEC 60664-4:2005, *Insulation coordination for equipment within low-voltage systems – Part 4: Consideration of high-frequency voltage stress* **[A1]**

Replacement:

ISO 3744:2010, *Acoustics – Determination of sound power levels and sound energy levels of noise sources using sound pressure – Engineering methods for an essentially free field over a reflecting plane*

3 Terms and definitions

This clause of Part 1 is applicable, except as follows:

3.101

blade control

device activated by the operator's hand or fingers in order to start or stop the operation of the **cutting device**

3.102

blade stopping time

elapsed time from the release of the **blade control** until the moving parts of the **cutting device** stop

3.103

blade tooth

part of the **cutter blade** which is sharpened or has sharp edges to perform the shearing action (see Figures 101 and 102)

3.104

blunt extension

blunt part of the **cutting device** or a part of an unsharpened plate fitted to the **cutting device** which extends beyond the **blade teeth** (see Figures 101 and 102)

3.105

cutter blade

part of the **cutting device** having **blade teeth** which cut by shearing action either against other **blade teeth** or against a **shear plate** (see Figures 101 and 102)

3.106

cutting device

part of the assembly of **cutter blade** and **shear plate** or of two **cutter blades** together with any supporting part which performs the cutting action, which may be either single or double sided (see Figures 101, 102, 104 a) and 104 b))

3.107

cutting length

effective cutting length of the **cutting device** measured from the inside edge of the first **blade tooth** or **shear plate** tooth to the inside edge of the last **blade tooth** or **shear plate** tooth (see Figure 103)

Note 1 to entry: Where both **cutter blades** move, the **cutting length** is measured when the first and last **blade teeth** are furthest apart.

3.108

extended-reach hedge trimmer

hedge trimmer with a fixed or adjustable elongated construction, including additional separable extensions, if any, such that the **cutting device** is distanced from the handles or grasping surfaces during use