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PURUSTAJATELE/HAKKURITELE

Electric motor-operated hand-held tools,  
transportable tools and lawn and garden machinery -  
Safety - Part 4-8: Particular requirements for  
shredders/chippers

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>See Eesti standard EVS-EN IEC 62841-4-8:2025 sisaldab Euroopa standardi EN IEC 62841-4-8:2025 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 11.04.2025.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN IEC 62841-4-8:2025 consists of the English text of the European standard EN IEC 62841-4-8:2025.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 11.04.2025.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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EUROPEAN STANDARD

**EN IEC 62841-4-8**

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2025

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Supersedes EN 50434:2014

English Version

**Electric motor-operated hand-held tools, transportable tools and  
lawn and garden machinery - Safety - Part 4-8: Particular  
requirements for shredders/chippers  
(IEC 62841-4-8:2025)**

Outils électroportatifs à moteur, outils portables et machines  
pour jardin et pelouses - Sécurité - Partie 4-8: Exigences  
particulières pour les déchiqueteuses/machines à  
déchiqueter  
(IEC 62841-4-8:2025)

Elektrische motorbetriebene handgeführte Werkzeuge,  
transportable Werkzeuge und Rasen- und  
Gartenmaschinen - Sicherheit - Teil 4-8: Besondere  
Anforderungen für Schredder/Häcksler  
(IEC 62841-4-8:2025)

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## European foreword

The text of document 116/853/FDIS, future edition 1 of IEC 62841-4-8, prepared by TC 116 "Safety of motor-operated electric tools" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62841-4-8:2025.

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) 2026-04-30
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2029-04-30

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This document has been prepared under a standardization request addressed to CENELEC 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 ZZ, which is an integral part of EN IEC 62841-4-8:2025/A11:2025.

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# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety –  
Part 4-8: Particular requirements for shredders/chippers**

**Outils électroportatifs à moteur, outils portables et machines pour jardin et pelouses – Sécurité –  
Partie 4-8: Exigences particulières pour les déchiqueteuses/machines à déchiqueter**



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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety –  
Part 4-8: Particular requirements for shredders/chippers**

**Outils électroportatifs à moteur, outils portables et machines pour jardin et pelouses – Sécurité –  
Partie 4-8: Exigences particulières pour les déchiqueteuses/machines à déchiqueter**

INTERNATIONAL  
ELECTROTECHNICAL  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

**Part 4-8: Particular requirements for shredders/chippers**

**FOREWORD**

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IEC 62841-4-8 has been prepared by IEC technical committee 116: Safety of motor-operated electric tools. It is an International Standard.

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

Draft	Report on voting
116/853/FDIS	116/867/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 International Standard 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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

This document is to be used in conjunction with IEC 62841-1:2014.

This document supplements or modifies the corresponding clauses in IEC 62841-1, so as to convert it into the IEC Standard: Particular requirements for shredders/chippers.

Where a particular subclause of IEC 62841-1 is not mentioned in this document, that subclause applies as far as reasonable. Where this document states "addition", "modification" or "replacement", the relevant text in IEC 62841-1 is to be adapted accordingly.

The following print types are used:

- test specifications: *in italic type*;
- terms defined in Clause 3: **in bold type**;

Subclauses, notes, tables and figures which are additional to those in IEC 62841-1 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 document are numbered starting from 301.

A list of all parts in the IEC 62841 series, published 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 [webstore.iec.ch](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.

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

## Part 4-8: Particular requirements for shredders/chippers

### 1 Scope

IEC 62841-1:2014, Clause 1, is applicable, except as follows.

*Replacement of the third paragraph:*

The **rated voltage** is not more than 250 V for single-phase a.c. or d.c. machines, and 480 V for three-phase a.c. machines.

*Addition:*

This document specifies safety requirements and their verification for the design and construction of hand fed, **shredders/chippers** with an integral electric motor, with or without vacuum assisted collection, which are designed to reduce organic material to smaller pieces and are used in a stationary position by an operator standing on the ground. This document applies to **shredders/chippers** with **feed intake openings** or **feed safety openings** that in total will fit into a square of 250 mm × 250 mm.

NOTE 101 The requirements for the measurement of the square of 250 mm × 250 mm are specified in 19.101.1.

In this document, **shredders/chippers** are referred to collectively as machine(s).

This document does not cover requirements for

- machines powered by combustion engines; or
- machines driven by an external power source; or
- machines with powered discharge intended to broadcast material or load vehicles; or
- machines with mechanically powered feed intake or **attachments**; or
- wood chippers for forestry, agriculture, horticulture and landscaping.

### 2 Normative references

IEC 62841-1:2014, Clause 2, is applicable, except as follows.

*Addition:*

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*

IEC 61058-1-1:2016, *Switches for appliances – Part 1-1: Requirements for mechanical switches*

IEC 61058-1-2:2016, *Switches for appliances – Part 1-2: Requirements for electronic switches*

IEC 61058-2-6:2018, *Switches for appliances – Part 2-6: Particular requirements for switches used in electric motor-operated hand-held tools, transportable tools and lawn and garden machinery*

IEC 61672-1:2013, *Electroacoustics – Sound level meters – Part 1: Specifications*

IEC 62841-1:2014, *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements*

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

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

ISO 21920-3:2021, *Geometrical product specifications (GPS) – Surface texture: Profile – Part 3: Specification operators*

*Replacement:*

IEC 61058-1:2016, *Switches for appliances – Part 1: General requirements*

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*

ISO 11201:2010, *Acoustics – Noise emitted by machinery and equipment – Determination of emission sound pressure levels at a workstation and at other specified positions in an essentially free field over a reflecting plane with negligible environmental corrections*

### **3 Terms and definitions**

IEC 62841-1:2014, Clause 3, is applicable, except as follows.

*Addition:*

#### **3.101**

##### **appliance inlet**

device which is incorporated in the enclosure of the machine for insertion of an electrical plug connection to the mains supply

#### **3.102**

##### **debris collector**

part or combination of parts that is required for **normal operation** of the machine and provides a means for collecting organic material from the **discharge chute**

#### **3.103**

##### **direct opening action**

achievement of contact separation as a direct result of a specified movement of the switch actuator through non-resilient members (e.g. non-dependent upon springs)

#### **3.104**

##### **discharge chute**

extension of the opening through which the shredded or chipped material is discharged