

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 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. The main document types developed by IEC are described in greater detail at 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 content of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

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.

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*