



NSAI
Standards

Irish Standard
I.S. EN 50434:2014

Safety of household and similar appliances - Particular requirements for mains operated shredders and chippers

I.S. EN 50434:2014

Incorporating amendments/corrigenda/National Annexes issued since publication:

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

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This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

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EUROPEAN STANDARD

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English Version

Safety of household and similar appliances - Particular requirements for mains operated shredders and chippers

Sécurité des appareils électrodomestiques et analogues -
Règles particulières pour les broyeurs et déchiqueteurs
fonctionnant sur le réseau

Sicherheit elektrischer Geräte für den Hausgebrauch und
ähnliche Zwecke - Besondere Anforderungen für
netzbetriebene Schredder, Häcksler und Zerkleinerer

This European Standard was approved by CENELEC on 2014-03-31. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

This document (EN 50434:2014) has been prepared by WG 5, "Gardening appliances", of the Technical Committee CENELEC TC 116, "Safety of motor-operated electric tools".

The following dates are fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2015-03-31
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2017-03-31

EN 50434:2014 includes the following significant technical changes:

- alignment to the European Machinery Directive 2006/42/EC;
- alignment to EN 60335-1:2012.

This European Standard is to be used in conjunction with EN 60335-1:2012 "*Household and similar electrical appliances – Safety – Part 1: General requirements*".

When Part 1 is mentioned in this standard, it refers to EN 60335-1:2012.

This European Standard supplements or modifies the corresponding clauses in Part 1, so as to convert that publication into the European Standard "*Safety requirements for shredders/chippers*".

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

Compliance with the relevant clauses of Part 1 together with this European Standard provides one means of conforming to the specified essential health and safety requirements of the Directive.

This European Standard follows the overall requirements of EN ISO 12100:2010.

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.

For the relationship with EU Directive 2006/42/EC, see informative Annex ZZ, which is an integral part of this document.

Warning: Other requirements arising from other EU Directives can be applicable to the products falling within the scope of this European Standard.

The following numbering system is used:

- subclauses that are numbered starting from 101 are additional to those in Part 1;
- additional annexes are lettered AA, BB, etc..

NOTE In this European Standard the following print types are used:

- requirements proper: in roman type;
- test specifications: in italic type;
- explanatory matter: in smaller roman type.

Words in **bold** in the text are defined in Clause 3. When a definition concerns an adjective, the adjective and the associated noun are also in bold.

Introduction

This document is a type C standard as stated in EN ISO 12100:2010.

The machinery concerned and the extent to which hazards, hazardous situations and events are covered is as indicated in the scope of this document.

When provisions of this type C standard are different from those which are stated in type A or B standards, the provisions of this type C standard take precedence over the other standards, for machines which have been built and designed to the provisions of this type C standard.

1 Scope

Replacement:

This European Standard specifies safety requirements and their verification for the design and construction of hand fed, **shredders/chippers** with integral electric motor, not exceeding 250 V single phase, 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 standard applies to **shredders/chippers** with **feed intake openings** or segments, in this standard referred to as **feed safety openings** that in total will fit into a square of 250 mm x 250 mm.

NOTE For the requirements for the measurement of the square of 250 mm x 250 mm are given in clause 20.101.1 of this standard.

In this European Standard **shredders** and **chippers** are referred to collectively as machine(s).

This European Standard does not cover requirements for

- machines powered by combustion engines;

NOTE 1 Combustion engine driven machines are covered by EN 13683.

- machines driven by an external power source or by battery power;
- machines with powered discharge intended to broadcast material or load vehicles;
- machines with mechanically powered feed intake or attachments;
- wood chippers for agricultural, lawn and park and forestry use;

NOTE 2 Wood chippers are covered by EN 13525.

- machines powered from a 3 phase supply.

This European Standard deals with all significant hazards presented by **shredders/chippers** when they are used as intended and under conditions of misuse which are reasonably foreseeable.

EMC and environmental aspects, except noise, have not been considered in this European Standard.

This European Standard is not applicable to machines which are manufactured before the date of publication of this document by CENELEC.

2 Normative references

This clause of Part 1 is applicable except as follows:

Addition:

EN ISO 354:2003, *Acoustics — Measurement of sound absorption in a reverberation room* (ISO 354:2003)

EN 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 3744:2010)

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