



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 50144-2-15:2001

ICS 25.140.20  
65.060.80

**SAFETY OF HAND-HELD ELECTRIC MOTOR  
OPERATED TOOLS  
PART 2-15: PARTICULAR REQUIREMENTS  
FOR HEDGE TRIMMERS**

National Standards  
Authority of Ireland  
Dublin 9  
Ireland

Tel. (01) 807 3800  
Tel. (01) 807 3838

*This Irish Standard was  
published under the  
authority of the National  
Standards Authority of  
Ireland  
and comes into effect on  
June 22, 2001*

**NO COPYING WITHOUT NSAI  
PERMISSION EXCEPT AS  
PERMITTED BY COPYRIGHT  
LAW**

© NSAI 2001

**Price Code H**

Údarás um Chaighdeáin Náisiúnta na hÉireann

EUROPEAN STANDARD

**EN 50144-2-15**

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2001

ICS 25 140.20 ; 65.060 80

Supersedes EN 50144-2-15:1997

English version

## **Safety of hand-held electric motor operated tools Part 2-15: Particular requirements for hedge trimmers**

Sécurité des outils électroportatifs à moteur  
Partie 2-15: Règles particulières pour les taille-  
haies

Sicherheit handgeführter motorbetriebener  
Elektrowerkzeuge  
Teil 2-15: Besondere Anforderungen für  
Heckenscheren

This European Standard was approved by CENELEC on 2000-08-01. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

# **CENELEC**

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

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

## Foreword

This European Standard has been prepared by the Technical Committee CENELEC TC 61F, Hand-held and transportable electric motor operated tools. The text of the draft was submitted to the Unique Acceptance Procedure (UAP) in July 1994 and was approved by CENELEC as EN 50144-2-15 on 1995-03-06.

A draft for an amendment was submitted to UAP in August 1999 and was approved by CENELEC on 2000-08-01 for inclusion into a second edition of EN 50144-2-15.

This European Standard supersedes EN 50144-2-15:1997

The following dates were fixed:

- latest date by which the EN has to be implemented at a national level by publication of an identical national standard or by endorsement (dop) 2001-10-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2003-08-01

This standard is divided into two 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).

Part 2: Requirements for particular types of tool which either supplement or modify the requirements given in Part 1 to account for the particular hazards and characteristics of these specific tools.

This European Standard has been prepared under a mandate given to CEN/CENELEC by the European Commission and the European Free Trade Association and supports the essential health and safety requirements of the Machinery Directive.

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

For noise and vibration this standard covers the requirements for their measurement, the provisions of information arising from these measurements and the provisions of information about the personal protective equipment required. Specific requirements for the reduction of the risk arising from noise and vibration through the design of the tool are not given as this reflects the current state of the art. As with any standard, technical progress will be kept under review so that any developments can be taken into account.

**Warning:** Other requirements and other EC Directives can be applicable to the products falling within the scope of this standard.

This standard follows the overall requirements of EN 292-1 and EN 292-2.

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

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

- Requirements proper;
- *Test specifications*;
- Explanatory matter

## Contents

1	Scope .....	4
2	Definitions .....	4
3	General requirements .....	5
4	General conditions for the tests .....	5
5	Rating .....	5
6	Classification .....	5
7	Marking and information for use .....	5
8	Protection against electric shock .....	6
9	Starting .....	7
10	Input and current .....	7
11	Heating .....	7
12	Leakage current .....	7
13	Environmental requirements .....	8
14	Moisture resistance .....	8
15	Insulation resistance and electric strength .....	8
16	Endurance .....	8
17	Abnormal operation .....	8
18	Mechanical hazards .....	9
19	Mechanical strength .....	11
20	Construction .....	11
21	Components .....	12
22	Internal wiring .....	12
23	Supply connection and external flexible cables and cords .....	12
24	Terminals for external conductors .....	12
25	Provision for earthing .....	12
26	Screws and connections .....	12
27	Creepage distances, clearances and distances through insulation .....	12
28	Resistance to heat, fire and tracking .....	13
29	Resistance to rusting .....	13
30	Radiation .....	13
	Annexes .....	19

## 1 Scope

This clause of Part 1 is applicable except as follows:

### 1.1 *Addition:*

This standard applies to hedge trimmers which are designed for use by one operator, for trimming hedges and bushes utilizing one or more linear reciprocating cutter blades.

This standard is not applicable to hedge trimmers with a rotating blade or hedge trimmers powered by back-pack or other external source.

This standard does not give requirements for the design of the tool to reduce the risks arising from noise and vibration.

## 2 Definitions

This clause of Part 1 is applicable except as follows:

### 2.2.18 *Replacement:*

2.2.18 **normal load:** Continuous operation with no external load applied, the cutting device being adjusted as for normal use. The normal load is based on the rated voltage or upper limit of the rated voltage range.

### *Addition:*

2.2.101 **blade tooth:** The part of the cutter blade which is sharpened to perform the shearing action. See Figure 101.

2.2.102 **cutter blade:** The part of the cutting device having blade teeth which cut the hedge by shearing action either against other blade teeth or against an unsharpened shear plate. See Figure 101.

2.2.103 **cutting device:** The part of the assembly of cutter blade and shear plate or the cutter blade together with any supporting part, which performs the cutting action. See Figure 101. This may be either single or double sided.

2.2.104 **cutting length:** The 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 102. Where both blades move the measurements shall be taken when the first and last teeth are furthest apart.

2.2.105 **front handle:** A handle located at or towards the cutting device. See Figure 103.

2.2.106 **rear handle:** A handle located furthest from the cutting device. See Figure 103.

2.2.107 **blade control:** A device activated by the operator's hand or fingers for controlling the cutter blade movement.

2.2.108 **blunt extension:** A 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 Figure 101.

2.2.109 **run-down time:** The elapsed time from the release of the blade control until the cutter blade stops.

2.2.110 **maximum speed:** The highest motor speed obtainable when adjusted in accordance with the manufacturer's specifications and/or instructions and with the cutting device engaged.

### 3 General requirements

This clause of Part 1 is applicable.

### 4 General conditions for the tests

This clause of Part 1 is applicable except as follows:

#### 4.3 Addition:

For the test of subclause 18.104 additional samples may be provided.

### 5 Rating

This clause of Part 1 is applicable.

### 6 Classification

This clause of Part 1 is applicable.

### 7 Marking and information for use

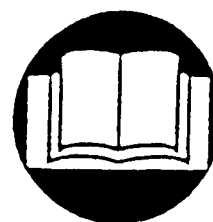
This clause of Part 1 is applicable except as follows:

#### 7.1 Addition:

Hedge trimmers shall be marked with pictograms/symbols or safety recommendations/warnings of the following substance. This requirement also applies to hedge trimmers or accessories which can be fitted to multi-purpose tools.

Safety recommendations and warnings shall be written in the official language, or one of the official languages, of the country in which they are to be sold.

- Read the instructions



- Do not expose to rain

NOTE: For splash-proof or watertight hedge trimmers this warning need not be marked on the electric tool itself.



This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
  - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-