

# 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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## 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

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**IEC 62841-4-2 edition 1.1 contains the first edition (2017-12) [documents 116/346/FDIS and 116/352/RVD], its corrigendum (2018-06) and its amendment 1 (2022-05) [documents 116/578/FDIS and 116/586/RVD].**

**In this Redline version, a vertical line in the margin shows where the technical content is modified by amendment 1. Additions are in green text, deletions are in strikethrough red text. A separate Final version with all changes accepted is available in this publication.**

International Standard IEC 62841-4-2 has been prepared by IEC technical committee 116: Safety of motor-operated electric tools.

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 the base publication and its amendment will remain unchanged until the stability date indicated on the IEC web site under [webstore.iec.ch](http://webstore.iec.ch) in the data related to the specific publication. At this date, the publication 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.

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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.

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

### 2 Normative references

This clause of Part 1 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 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)*

*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

#### 3.109

##### **front handle**

grasping surface located at or towards the **cutting device** (see Figure 104)

#### 3.110

##### **hedge trimmer**

hand-held machine provided with a linearly reciprocating **cutting device** intended for trimming bushes and hedges

**3.111**  
**maximum speed**

~~highest cutting device speed attainable under all conditions of normal use, including no-load~~

highest steady-state cutting device speed attainable under all conditions of normal use, including no-load, when adjusted in accordance with the manufacturer's specifications and/or instructions

Note 101 to entry: The steady-state **cutting device** speed excludes transients such as overshoot that may occur before attaining a steady-state condition.

**3.112**  
**operator presence sensor**

device to detect the presence of an operator's hand

**3.113**  
**rear handle**

grasping surface located furthest from the **cutting device** (see Figure 104)

**3.114**  
**shaft**

fixed or extendable element of an **extended-reach hedge trimmer** that distances the **cutting device** from the **rear handle**

**3.115**  
**shear plate**

moving or stationary unsharpened part of the **cutting device** which assists cutting by shearing action against a **cutter blade** (see Figure 101)

**4 General requirements**

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This clause of Part 1 is applicable.

**5 General conditions for the tests**

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

**5.8 Addition:**

*If different **cutting devices** can be mounted on the **hedge trimmer** in accordance with 8.14.2 a) and 8.14.2 b), the **cutting devices** are regarded as **attachments**.*

**5.17 Addition:**

*The mass of the machine excludes the **cutting device** cover and shoulder harness, if any, but includes:*

– *the auxiliary handle, if any;*

*and*

– *for **extended-reach hedge trimmers**, the auxiliary extension **shaft** attachment, if any.*

**5.101** *The tests are carried out on the machine as supplied. However, a machine constructed as a single machine but supplied in a number of units is tested after assembly in accordance with 8.14.2.*

**5.102** Unless otherwise specified, for Clauses 19 and 21, machines are tested in each operating configuration as described in 8.14.2.

**5.103** For machines that do not attain **maximum speed** under no load conditions, the manufacturer shall provide samples with special hardware and/or software in order to perform the required tests.

## 6 Radiation, toxicity and similar hazards

This clause of Part 1 is applicable.

## 7 Classification

This clause of Part 1 is applicable.



## 8 Marking and instructions

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

### 8.2 Addition:


**Hedge trimmers** shall be marked with safety information which shall be written in one of the official languages of the country in which the machine is to be sold or marked with the appropriate symbol.

For all **hedge trimmers**:




- ~~—  **DANGER – Keep hands away from blade**; or~~
- ~~— the safety sign specified in Figure AA.1; or~~
- ~~— the safety sign specified in Figure AA.2.~~
- "Wear ear protection", a relevant safety sign of ISO 7010 or the safety sign specified in Figure AA.7. This marking may be omitted if the measured emission sound pressure level at the operator's ear in accordance with Annex I does not exceed 85 dB(A); and
- " **DANGER – Keep hands away from blade**" or the safety sign specified in Figure AA.1 or the safety sign specified in Figure AA.2.

The DANGER marking or symbol shall be readily visible to the user and shall not be located on the underside of the machine.

For all **hedge trimmers** with a degree of protection of less than IPX4:

- ~~—  **WARNING – Do not expose to rain**; or~~
- ~~— the safety sign specified in Figure AA.3.~~

~~For mains supplied machines:~~

- ~~—  **WARNING – Remove plug from the mains immediately if the cable is damaged or cut**; or~~
- ~~— the safety sign specified in Figure AA.4.~~
- " **WARNING – Do not expose to rain**" or the safety sign specified in Figure AA.3.
- " **WARNING – Remove plug from the mains immediately if the cable is damaged or cut**" or the safety sign specified in Figure AA.4.