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# INTERNATIONAL STANDARD

AMENDEMENT 2

**Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety -**
**Part 4-2: Particular requirements for hedge trimmers**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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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

## AMENDMENT 2

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Amendment 2 to IEC 62841-4-2:2017 has been prepared by IEC technical committee 116: Safety of motor-operated electric tools.

The text of this Amendment is based on the following documents:

| Draft | Report on voting |
|---|---|
| 116/1012/FDIS | 116/1021/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 Amendment is English.



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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/.

NOTE The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations can 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.

A list of all parts of 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 in the data related to the specific document. At this date, the document will be

– reconfirmed,
– withdrawn, or
– revised.

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*Replace the existing fifth paragraph with the following:*

This Part 4-2 is to be used in conjunction with the first edition of IEC 62841-1:2014 and its amendments.

## 1 Scope

*Replace the existing Note 102 with the following:*

NOTE 102 Scissors type grass shears are covered by IEC 62841-4-5.

## 2 Normative references

*Add the following new normative references:*

IEC 60112:2025, *Method for the determination of the proof and the comparative tracking indices of solid insulating materials*

ISO 9773:2024, *Plastics - Determination of burning behaviour of thin flexible vertical specimens in contact with a small flame ignition source*

*Replace ISO 11684 with the following:*

ISO 11684:2023, *Tractors, machinery for agriculture and forestry, powered lawn and garden equipment - Safety labels - General principles*



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## 3 Terms and definitions

**3.108**
**extended-reach hedge trimmer**

*Replace the existing text of the definition with the following:*

**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 (see Figure 104)

## 8 Marking and instructions

*Replace the existing text of 8.2, modified by Amendment 1, with the following:*

**8.2** *Addition:*

**Hedge trimmers** shall be marked with the following 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**:

– "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.

– "Wear eye protection" or a relevant safety sign of ISO 7010 or one of the safety signs shown in Figure AA.5.

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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.

A combination of safety signs, such as eye, ear and head protection, is allowed. These signs may be front facing or a side profile. Examples of combination product safety labels are shown in Figure AA.6 and Figure AA.9.

Alternative safety signs to those in Annex AA that convey an equivalent message are allowed.

Additionally, for **extended-reach hedge trimmers**:

– "⚠DANGER – Keep away from electrical power lines" or Figure AA.8 or a product safety label using one or more pictograms, such as ISO 11684:2023, Figure E.4 or ISO 11684:2023, Figure D.5.

– "Wear head protection" or a relevant safety sign of ISO 7010.

– Safety sign W017 of ISO 7010 (2011-05) in accordance with Table 2, if applicable.



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#### 8.14.1.101 Safety instructions for hedge trimmers

*Replace the first paragraph of 8.14.1.101, added by Amendment 1, with the following:*

For **hedge trimmers** that can be converted to a grass shear, the term "hedge trimmer" may be replaced by alternate wording (e.g. "grass shear/hedge trimmer" or "grass shear/shrub shear"). For this case, it is not necessary to repeat the verbatim warnings below for the two configurations.

**8.14.2** b)

*Replace the existing item 108) with the following:*

108) Instructions for configuring the machine, including any handle for **cutting device** adjustment;

## 12 Heating

*Add, after 12.2.1, the following new text and table:*

*Replacement of Table 2 by the following:*

**Table 2 – Maximum outside surface temperature rises**

| Parts | Temperature rise[a] K |
|---|---|
| External enclosure, except handles held in **normal use** | 60 |
| Handles, knobs, grips, and the like which, in **normal use**, are continuously held: | |
| – of metal | 30 |
| – of porcelain or vitreous material | 40 |
| – of moulded material, rubber or wood | 50 |
| Handles, knobs, grips, and the like which, in **normal use**, are held for short periods only (e.g. switches): | |
| – of metal | 35 |
| – of porcelain or vitreous material | 45 |
| – of moulded material, rubber or wood | 60 |

[a] Temperature rise limits are not applicable to the **cutting device** drive enclosure of **extended-reach hedge trimmers**, if it is marked with the safety sign W017 (2011-05) of ISO 7010.

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## 18 Abnormal operation

*Replace, in 18.8, the existing Table 4 with the following:*

**Table 4 – Required performance levels**

| Type and purpose of SCF | Minimum performance level (PL) |
|---|---|
| **Blade control**(**s**) – prevent unwanted switch-on | c |
| **Blade control**(**s**) – provide desired switch-off | b |
| **Blade control**(**s**) **– blade stopping time** not exceeding 1 s more than the required time as in 19.104.1 | a |
| Prevent exceeding thermal limits as in 18.4 and 18.5.3 | a |
| Any device to prevent operation in a configuration not permitted by this document as required in 19.101.1.1 | a |
| **Operator presence sensor** as in 21.18.102 | a |
| Lock-off function as required in 21.18.102 | a |
| Visible or audible indicator as referenced in 21.18.102 | Not an **SCF** |
| Prevent self-resetting as required in 23.3 | Not an **SCF** |

## 19 Mechanical hazards

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### 19.101.1.1 General

*Replace the existing first paragraph with the following:*

**Hedge trimmers**, except for **extended-reach hedge trimmers**, having a **cutting length** exceeding 250 mm shall be provided with at least two handles.

*Replace the existing third paragraph with the following:*

The handles shall be designed in such a way that each one can be grasped with one hand. Handles shall be suitably shaped to be grasped securely and have a perimeter *P* between 63 mm and 170 mm as illustrated in Figure 105 a), Figure 105 b) or Figure 105 c). The perimeter is determined by a chain measurement with the blade control, if any, fully depressed. The gripping length of the handle(s) shall be at least 100 mm.

### 19.101.2.1 General

*Replace the existing first paragraph with the following:*

**Extended-reach hedge trimmers** shall be provided with two handles.

### 19.101.3.1

*Replace the existing text with the following:*

**19.101.3.1 Hedge trimmers**, except for **extended-reach hedge trimmers**, with handles that are adjustable by side-to-side axial rotation about an axis between them without the use of a tool while the **cutting device** is operating shall comply with the requirements of 19.101.3.2 to 19.101.3.6.



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