

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1 AMENDEMENT 1

**Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety -
Part 4-3: Particular requirements for pedestrian controlled walk-behind lawnmowers**

Outils électroportatifs à moteur, outils portables et machines pour jardin et pelouses - Sécurité -

Partie 4-3: Exigences particulières pour tondeuses à gazon à conducteur à pied



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery -**Safety -****Part 4-3: Particular requirements for pedestrian controlled walk-behind lawnmowers****AMENDMENT 1****FOREWORD**

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Amendment 1 to IEC 62841-4-3:2020 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
116/898/FDIS	116/906/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.

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/.

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 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- withdrawn, or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.

FOREWORD

Replace the fifth paragraph with the following new text:

This Part 4-3 is to be used in conjunction with the first edition of IEC 62841-1:2014 and IEC 62841-1:2014/AMD1:2025.

1 Scope

Replace the existing text of the twenty-first dashed item with the following new text:

- ride-on machines, including those that can be operated in pedestrian controlled mode;

Delete NOTE 103.

Renumber NOTE 104 to NOTE 103 and replace the existing text with the following new text:

NOTE 103 Lawn trimmers, lawn edge trimmers, grass trimmers, brush cutters and brush saws are covered by IEC 62841-4-4.

Renumber NOTE 105 to NOTE 104 and replace the existing text with the following new text:

NOTE 104 Lawn edgers are covered by IEC 62841-4-11¹.

Add the following new NOTE 105:

NOTE 105 Battery powered ride-on lawnmowers will be covered by a future part of IEC 62841.

¹ Under preparation. Stage at the time of publication: IEC/FDIS 62841-4-11:2025.

Add the following new NOTE 106:

NOTE 106 In Europe (EN IEC 62841-4-3), the following requirements apply:

This document covers all significant hazards, hazardous situations or hazardous events relevant for machines covered by this document.

NOTE Z101 Essential requirements not mentioned in Table ZZ.1 are deemed to be not applicable, because the corresponding hazards are either not relevant for machines covered by this document or do not require specific action by the designer.

2 Normative references

Add the following new references:

IEC 60112:2020, *Method for the determination of the proof and the comparative tracking indices of solid insulating materials*

IEC 60664-4:2005, *Insulation coordination for equipment within low-voltage systems – Part 4: Consideration of high-frequency voltage stress*

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

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

ISO 13857:2019, *Safety of machinery – Safety distances to prevent hazard zones being reached by upper and lower limbs*

Replace the existing reference ISO 5395-2 with the following:

ISO 5395-2:2013, *Garden equipment – Safety requirements for combustion-engine-powered lawnmowers – Part 2: Pedestrian-controlled lawnmowers*

ISO 5395-2:2013/Amd 1:2016

ISO 5395-2:2013/Amd 2:2017

Add the date of publication to IEC 61672-1 as follows:

IEC 61672-1:2013, *Electroacoustics – Sound level meters – Part 1: Specifications*

Delete the following reference:

ANSI B71.1:2017, *Consumer turf care equipment – Pedestrian-controlled mowers and ride-on mowers – Safety specifications*

3 Terms and definitions

3.114

maximum speed

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

highest steady-state **cutting means** 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 means** speed excludes transients such as overshoot that can occur before attaining a steady-state condition.

3.117**operator presence control**

Replace the existing text of Note 101 to entry of with the following new text:

Note 101 to entry: The device typically consists of a combination of a mechanical actuator and other mechanical and electrical components (e.g. tactile switch, relays, load switches or **electronic components**).

Add the following new definitions:

3.121**swing-over handle**

handle that pivots about a horizontal axis from one end of a **lawnmower** to the other end to allow reversing the direction of travel of the **lawnmower** without turning the **lawnmower** around

Note 1 to entry: Reproduced from ANSI/OPEI B71.1-2017, American National Standard for Consumer Turf Care Equipment – Pedestrian-Controlled Mowers and Ride-On Mowers – Safety Specifications, with the consent of The Outdoor Power Equipment Institute, Inc.

3.122**traction drive**

means (system) used to transmit power from the motor to the ground drive means

8 Marking and instructions**8.2 Addition:**

Replace the existing text of the first dashed item of 8.2 with the following new text:

- One of the following safety warnings:
 - "⚠ WARNING – Beware of thrown objects – keep bystanders away"; or
 - "⚠ WARNING – Keep bystanders away by at least _____", where "_____" is the recommended minimum distance between the machine and the bystander; or
 - one of the safety signs specified in Figure AA.1;

Replace the existing text of the second dashed item of 8.2 with the following new text:

- "⚠ WARNING – Remove plug from mains before maintenance or if cord is damaged", symbol M006 of ISO 7010 (2011-05), or one of the safety signs specified in Figure AA.2;

Replace the existing NOTE 101 in 8.2 with the following new text:

NOTE 101 In Canada and the United States of America, the following requirements apply in place of 8.2.

Lawnmowers must be marked with a safety warning in one of the following versions:

- "⚠ WARNING – To reduce the risk of injury, user must read instruction manual", or symbol M002 of ISO 7010(2011-05).

In Canada, the equivalent French wording of the above warning is as follows: "AVERTISSEMENT – Pour réduire le risque de blessure, l'utilisateur doit lire le manuel d'instructions".

If used, the word "WARNING" must be in capital letters not less than 2,4 mm high and must not be separated from either the cautionary statement or the symbol ISO 7000-0434A (2004-01) or ISO 7000-0434B (2004-01).

If used, the statement must be verbatim except that the term "operator's manual" or "user guide" may be used for the term "instruction manual".

Cautionary statements having the same signal word such as "⚠ WARNING" may be combined into one paragraph under one signal word.

Lawnmowers must be marked with the following safety warnings:

- "⚠️ WARNING – Beware of thrown objects – keep bystanders away" or one of the safety signs specified in Figure AA.1;

In Canada, the equivalent French wording of the above warning is as follows: "AVERTISSEMENT – Attention aux objets projetés – éloigner les passants".

For mains supplied machines:

- "⚠️ WARNING – Remove plug from mains before maintenance or if cord is damaged" or one of the safety signs specified in Figure AA.2;

In Canada, the equivalent French wording of the above warning is as follows: "AVERTISSEMENT – Débranchez la fiche du secteur avant l'entretien ou si le cordon est endommagé".

- "⚠️ WARNING – Keep the supply cord away from the blades" or the safety sign specified in Figure AA.3.

In Canada, the equivalent French wording of the above warning is as follows: "AVERTISSEMENT – Gardez le cordon d'alimentation éloigné des lames".

Rotary lawnmowers must be marked with the following safety warning:

- "⚠️ WARNING – Keep hands and feet away from the blades" or one of the safety signs specified in Figure AA.4.

In Canada, the equivalent French wording of the above warning is as follows: "AVERTISSEMENT – Gardez les mains et les pieds éloignés des lames".

Alternatively, the requirements of this subclause are considered to be fulfilled if the **lawnmower** complies with ANSI/OPEI 5395-2:2024, 7.2.2, except for the first dashed item, except that in Canada, all warning text must be provided in French.

Compliance is checked by inspection and by measurement.

For applicable **lawnmowers** in the scope of 16 CFR 1205:

- Warning label for **cylinder lawnmowers** and **rotary lawnmowers**.
 - General. Walk-behind **cylinder lawnmowers** and **rotary lawnmowers** must be labeled on the blade (**cutting means**) housing or, in the absence of a blade (**cutting means**) housing, on other blade (**cutting means**) shielding or on an adjacent supporting structure or assembly, with the warning label shown in Figure AA.8. The label must be at least 82,5 mm high and 102 mm wide, and the lettering and symbol must retain the same size relation to each other and to the label as shown in Figure AA.8.
 - **Rotary lawnmowers**. Walk-behind **rotary lawnmowers** must have one label as shown in Figure AA.8, on the blade (**cutting means**) housing. The label must be located as close as possible to any **discharge opening**, or, if there is no **discharge opening**, in a position that is conspicuous to an operator in the normal operating position.
 - **Cylinder lawnmowers**. Walk-behind **cylinder lawnmowers** must have one label as shown in Figure AA.8, located as close to the centre of the **cutting width** of the blade (**cutting means**) as possible. However, in the absence of a suitable mounting surface near the centre of the **cutting width**, the label must be placed on the nearest suitable mounting surface to the centre of the **cutting width**.

Compliance is checked by inspection and by measurement.

8.3 Addition:

Replace the existing text of the first dashed item and NOTE 102 with the following new text:

- if the mass of the machine is greater than 25 kg, either with "> 25 kg" or with the mass of the machine in kg.

NOTE 102 In Europe (EN IEC 62841-4-3), the following requirement applies:

Replacement of the sixth dashed list item:

- the mass of the machine in kg. For this requirement, the mass of the machine includes the mass of a **supply cord** with a length not less than 10 m, if any, in addition to the items specified in 5.17.