

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety –
Part 4-7: Particular requirements for pedestrian controlled walk-behind lawn scarifiers and aerators**

[IEC 62841-4-7:2022](#)

**Outils électroportatifs à moteur, outils portables et machines pour jardins et pelouses – Sécurité –
Partie 4-7: Exigences particulières pour les scarificateurs à gazon et les aérateurs de gazon à conducteur à pied**



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CONTENTS

FOREWORD.....	5
INTRODUCTION.....	7
1 Scope.....	8
2 Normative references	8
3 Terms and definitions	9
4 General requirements	12
5 General conditions for the tests	12
6 Radiation, toxicity and similar hazards.....	12
7 Classification.....	12
8 Marking and instructions.....	13
9 Protection against access to live parts.....	16
10 Starting	16
11 Input and current	17
12 Heating.....	17
13 Resistance to heat and fire	17
14 Moisture resistance	17
15 Resistance to rusting	18
16 Overload protection of transformers and associated circuits	19
17 Endurance	19
18 Abnormal operation	19
19 Mechanical hazards.....	20
20 Mechanical strength	33
21 Construction	34
22 Internal wiring.....	38
23 Components	38
24 Supply connection and external flexible cords	40
25 Terminals for external conductors.....	42
26 Provision for earthing	42
27 Screws and connections	42
28 Creepage distances, clearances and distances through insulation.....	42
Annexes	47
Annex I (informative) Measurement of noise and vibration emissions.....	47
Annex K (normative) Battery tools and battery packs	56
Annex L (normative) Battery tools and battery packs provided with mains connection or non-isolated sources.....	71
Annex AA (normative) Product safety labels	75
Annex BB (normative) Test surface.....	80
Annex CC (normative) Lawn scarifier and lawn aerator foot protection test	82
Annex DD (normative) Lawn scarifier and lawn aerator tines stopping time test	85
Annex EE (informative) Example of a material and construction for fulfilling the requirements for an artificial surface	87
Bibliography.....	89

Figure 101 – Example of a lawn scarifier or a lawn aerator	11
Figure 102 – Operator control zones	23
Figure 103 – Safety distances – single-axle machines	25
Figure 104 – Handle distance – machines with more than one axle.....	26
Figure 105 – Guarding of lawn scarifier and lawn aerator tines, general.....	27
Figure 106 – Guarding of lawn scarifier and lawn aerator tines, side coverage.....	28
Figure 107 – Guarding of lawn scarifier and lawn aerator tines, rear discharge	29
Figure 108 – Guarding of lawn scarifier and lawn aerator tines, front discharge	30
Figure 109 – Thrown object test rig for rear discharge lawn scarifiers and lawn aerators	32
Figure 110 – Strength of tines assembly	34
Figure 111 – Impact test fixture for handle insulation	36
Figure 112 – Test assembly for accessibility of attachment plug blades	41
Figure I.101 – Microphone positions on the hemisphere (see Table I.101)	47
Figure I.102 – Examples of positions of transducers for lawn scarifiers and lawn aerators	54
Figure K.301 – Examples of separable battery pack connection points and direction of applied force.....	65
Figure AA.1 – Product safety labels illustrating – "WARNING – Beware of thrown objects – keep bystanders away"	75
Figure AA.2 – Product safety label illustrating – "WARNING – Keep hands and feet away from the tines"	76
Figure AA.3 – Product safety labels illustrating – "WARNING – Remove plug from mains before maintenance or if cord is damaged"	76
Figure AA.4 – Product safety label illustrating – "WARNING – Keep the supply cord away from the tines"	77
Figure AA.5 – Product safety labels illustrating – "WARNING – Disconnect battery before maintenance"	77
Figure AA.6 – Product safety labels illustrating – "WARNING – Remove the disabling device before maintenance"	78
Figure AA.7 – Product safety labels illustrating – "WARNING – Activate the disabling device before maintenance"	79
Figure BB.1 – Test surface detail	80
Figure BB.2 – Example of test surface, nail plan	81
Figure CC.1 – Foot probe	82
Figure CC.2 – Area to be probed for lawn scarifiers and lawn aerators	84
Figure EE.1 – Sketch of the measurement surface covered with an artificial surface.....	88
Table 4 – Required performance levels	20
Table 9 – Pull and torque value	42
Table 12 – Minimum creepage distances and clearances	44
Table I.101 – Co-ordinates of microphone positions.....	50
Table I.102 – Values of the constant a	50
Table I.103 – Absorption coefficients	50
Table 4 – Required performance levels	61
Table K.301 – Pull and torque value	67

Table K.1 – Minimum creepage distances and clearances between parts of different potential.....	69
Table K.2 – Minimum total sum of creepage distances and clearances to accessible surfaces.....	70

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRIC MOTOR-OPERATED HAND-HELD TOOLS,
TRANSPORTABLE TOOLS AND LAWN AND GARDEN
MACHINERY – SAFETY –****Part 4-7: Particular requirements for pedestrian controlled
walk-behind lawn scarifiers and aerators**

FOREWORD

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IEC 62841-4-7 has been prepared by IEC technical committee 116: Safety of motor-operated electric tools. It is an International Standard.

The text of this International Standard is based on the following documents:

Draft	Report on voting
116/589/FDIS	116/621/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 International Standard is English.

This document is to be used in conjunction with the first edition of IEC 62841-1 (2014).

This document supplements or modifies the corresponding clauses in IEC 62841-1, so as to convert it into the IEC Standard: Particular requirements for pedestrian controlled walk-behind lawn scarifiers and aerators.

Where a particular subclause of IEC 62841-1 is not mentioned in this document, that subclause applies as far as reasonable. Where this document states "addition", "modification" or "replacement", the relevant text in IEC 62841-1 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 IEC 62841-1 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 document are numbered starting from 301.

A list of all parts in 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.

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/standardsdev/publications.

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,
- replaced by a revised edition, or
- amended.

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.

INTRODUCTION

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ELECTRIC MOTOR-OPERATED HAND-HELD TOOLS, TRANSPORTABLE TOOLS AND LAWN AND GARDEN MACHINERY – SAFETY –

Part 4-7: Particular requirements for pedestrian controlled walk-behind lawn scarifiers and aerators

1 Scope

IEC 62841-1:2014, Clause 1 is applicable, except as follows:

Addition:

This document applies to pedestrian controlled walk-behind **lawn scarifiers** and **lawn aerators** which are designed for regenerating lawns by combing out materials such as grass, thatch and moss or cutting vertically into the lawn face using

- metallic **tines**; and/or
- rigid non-metallic **tines**

which rotate about a horizontal axis.

This document does not apply to

- pedestrian controlled walk-behind lawnmowers;
- towed/semi-mounted **lawn scarifiers** and **lawn aerators**;
- ride-on machines;
- non-powered **lawn scarifiers** and **lawn aerators**;
- combustion engine powered **lawn scarifiers** and **lawn aerators**;
- plug aerators (corers);
- hybrid and fuel cell powered machines and associated charging systems; and
- garden tractors or their attachments.

NOTE 101 Pedestrian controlled walk-behind lawnmowers are covered by IEC 62841-4-3.

2 Normative references

IEC 62841-1:2014, Clause 2 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 61058-2-6:2018, *Switches for appliances – Part 2-6: Particular requirements for switches used in electric motor-operated hand-held tools, transportable tools and lawn and garden machinery*

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

IEC 62841-1:2014, *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements*

ISO 354:2003, *Acoustics – Measurement of sound absorption in a reverberation room*

ISO 2758:2014, *Paper – Determination of bursting strength*

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

Replacement:

IEC 61058-1:2016, *Switches for appliances – Part 1: General requirements*

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 11201:2010, *Acoustics – Noise emitted by machinery and equipment – Determination of emission sound pressure levels at a work station and at other specified positions in an essentially free field over a reflecting plane with negligible environmental corrections*

3 Terms and definitions

IEC 62841-1:2014, Clause 3 is applicable, except as follows:

Addition: <https://standards.iteh.ai/catalog/standards/sist/4927a486-8ece-4324-8de3-a9be58917469/iec-62841-4-7-2022>

3.101

catcher

part or combination of parts, intended to be used with the **lawn scarifier** or **lawn aerator**, which provides a means for collecting material such as grass, thatch, moss or other debris

3.102

cutting width

total width of scarification/aeration measured across the **tines** at 90° to the direction of travel

3.103

discharge chute

extension of the **tines enclosure** from the **discharge opening**, generally used to control the discharge of material from the **tines**

3.104

discharge opening

gap or opening in the **tines enclosure** through which grass, thatch, moss and other debris may be discharged

3.104.1

front discharge

discharge opening for throwing out grass, thatch and moss so that they will be collected in a **catcher** which is located in front of the **tines**

3.104.2

rear discharge

discharge opening for throwing out grass, thatch and moss so that they will be collected in a **catcher** which is located behind the **tines**

3.105

lawn aerator

machine equipped with a **tines assembly** which uses the ground to determine the depth of cut, designed for penetrating the lawn surface

Note 101 to entry: See Figure 101.

Note 102 to entry: **Lawn aerators** that are designed to only make shallow cuts or slices in the soil are also known as verticutters.

3.106

lawn scarifier

machine equipped with a **tines assembly** designed to scratch the surface or earth face

Note 101 to entry: See Figure 101.

Note 102 to entry: **Lawn scarifiers** are also known as lawn rakes and dethatchers.

3.107

maximum speed

highest steady-state **tines** 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 **tines** speed excludes transients such as overshoot that may occur before attaining a steady-state condition.

3.108

operator control

device requiring operator actuation to perform specific functions during **normal operation**

3.109

operator presence control

device that deactivates rotation of the **tines** when the operator's hand(s) is removed from the control

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**).

3.110

parking brake

device to prevent a stationary machine from moving

3.111

service brake

device for decelerating and stopping a machine from its ground travel speed

3.112

tines

mechanism used to provide the penetrating action or scratching action of the machine

3.113

tines assembly

tines together with any supporting part(s), which together perform the aerating or scarifying action

3.114**tines enclosure**

part or assembly which provides the protective means around the **tines**

3.115**tines tip circle**

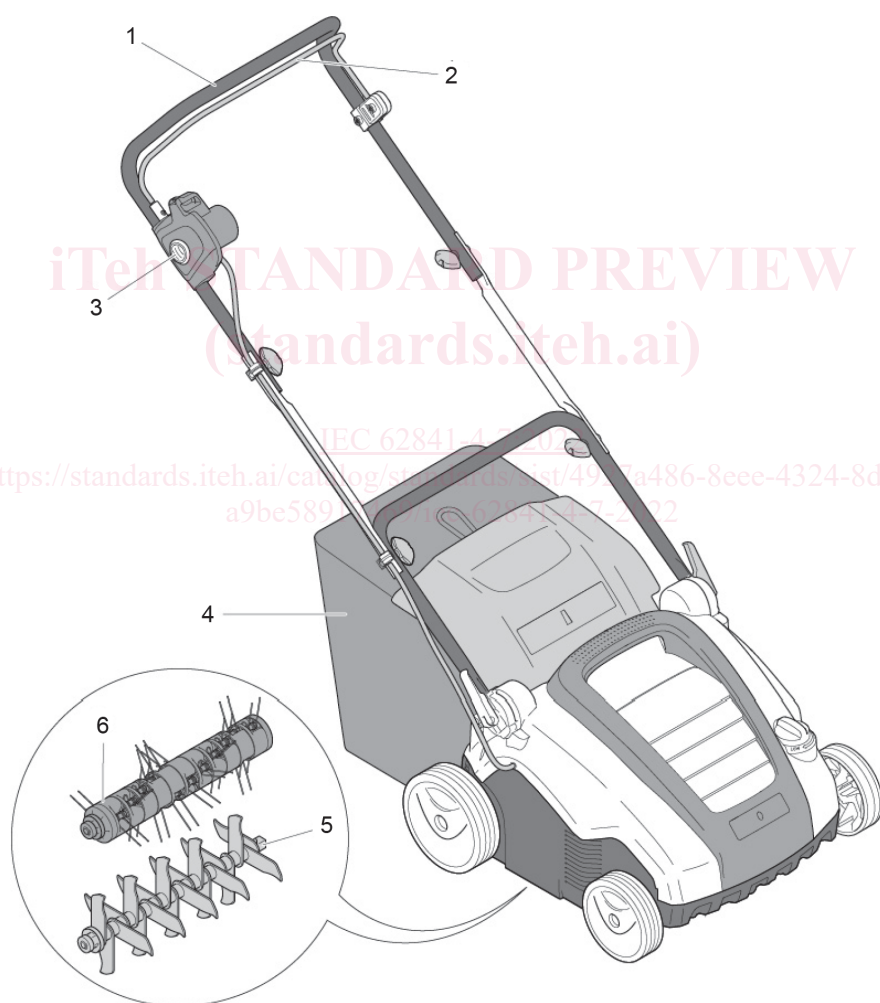
path described by the outermost point of the **tines** as they rotate about their shaft axis

3.116**traction drive**

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

3.117**working position**

any depth setting of the **tines** designated by the manufacturer



IEC

Key

- 1 handle
- 2 **operator presence control**
- 3 lock-off device
- 4 **catcher**
- 5 **tines assembly** for a lawn aerator
- 6 **tines assembly** for a lawn scarifier

Figure 101 – Example of a lawn scarifier or a lawn aerator

4 General requirements

IEC 62841-1:2014, Clause 4 is applicable.

5 General conditions for the tests

IEC 62841-1:2014, Clause 5 is applicable, except as follows:

5.4 Addition:

Handle positions that are used for storage purposes are not included in this requirement.

5.7.2 Replacement:

*Machines are tested at **rated voltage**. Machines having more than one **rated voltage** or having a **rated voltage range** are tested at the highest voltage.*

5.17 Addition:

*The mass of the machine includes the **tines assembly**, **catcher** (empty) (if any), **catcher adapter** (if any), **tines enclosure cover** (if any) in the heaviest configuration in accordance with 8.14.2.*

5.101 *During the tests, the **tines** may be adjusted and lubricated as needed to permit operation for extended periods.*

5.102 *For tests that are performed at **maximum speed** and no-load, the manufacturer may need to provide special hardware and/or software in order to achieve **maximum speed** at no-load.*

5.103 *The tests are performed using all **tines** in accordance with 8.14.2 a) 103).*

6 Radiation, toxicity and similar hazards

IEC 62841-1:2014, Clause 6 is applicable.

7 Classification

IEC 62841-1:2014, Clause 7 is applicable, except as follows:

7.1 Replacement:

Machines shall be of one of the following classes with respect to protection against electric shock:

class II tool (machine) or **class III tool** (machine).

Compliance is checked by inspection and by the relevant tests.

7.2 Addition:

Class II tools (machines) shall be at least IPX4. **Class III tools** (machines) shall be at least IPX1.

8 Marking and instructions

IEC 62841-1:2014, Clause 8 is applicable, except as follows:

8.1.101 Machines with more than one motor (i.e. separate motors for the **tines** and **traction drive**) shall be marked with the **rated input** or **rated current** for each motor. These markings may be located on each motor.

Compliance is checked by inspection.

8.2 Addition:

Lawn scarifiers and **lawn aerators** shall be marked with the following safety warnings:

- "⚠️ **WARNING** – Beware of thrown objects – keep bystanders away" or one of the product safety labels specified in Figure AA.1;
- "⚠️ **WARNING** – Keep hands and feet away from the tines" or the product safety label specified in Figure AA.2.

For mains supplied machines:

- "⚠️ **WARNING** – Remove plug from mains before maintenance or if cord is damaged" or one of the product safety labels specified in Figure AA.3;
- "⚠️ **WARNING** – Keep the supply cord away from the tines" or the product safety label specified in Figure AA.4.

8.3 Replacement of the sixth dashed list item:

- "> 25 kg" if the mass of the machine is over 25 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.

NOTE 101 In Europe (EN IEC 62841-4-7), 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.

8.9 Replacement:

Unless it is obviously unnecessary, switches and controls (e.g. a **tines** brake/clutch) which may give rise to a hazard when operated shall be marked or so placed as to indicate clearly which part of the machine they control.

Compliance is checked by inspection.

8.11 This subclause of IEC 62841-1:2014 is not applicable for traction drive speed controls.

8.14.1 Addition:

The additional safety instructions as specified in 8.14.1.101 shall be given. These additional safety instructions may be printed separately from the "General Machine Safety Warnings".

NOTE 101 "General Machine Safety Warnings" are referred to as "General Power Tool Safety Warnings" in IEC 62841-1:2014.