



SLOVENSKI STANDARD
SIST EN IEC 62841-3-7:2021

01-julij-2021

Elektromotorna ročna orodja, prenosna orodja ter stroji za trato in vrt - Varnost - 3-7. del: Posebne zahteve za premične stenske žage

Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-7: Particular requirements for transportable wall saws

Elektrische motorbetriebene handgeführte Werkzeuge, transportable Werkzeuge und Rasen- und Gartenmaschinen – Sicherheit – Teil 3-7: Besondere Anforderungen für transportable Wandsägen

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ICS:

25.080.60	Strojne žage	Sawing machines
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EUROPEAN STANDARD

EN IEC 62841-3-7

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2021

ICS 25.140.20

English Version

Electric motor-operated hand-held tools, transportable tools and
lawn and garden machinery - Safety - Part 3-7: Particular
requirements for transportable wall saws
(IEC 62841-3-7:2020)

Outils électroportatifs à moteur, outils portables et machines
pour jardins et pelouses - Sécurité - Partie 3-7: Exigences
particulières pour les scies murales portables
(IEC 62841-3-7:2020)

Elektrische motorbetriebene handgeführte Werkzeuge,
transportable Werkzeuge und Rasen- und
Gartenmaschinen - Sicherheit - Teil 3-7: Besondere
Anforderungen für transportable Wandsägen
(IEC 62841-3-7:2020)

This European Standard was approved by CENELEC on 2020-07-16. 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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 62841-3-7:2021 (E)**European foreword**

The text of document 116/455/FDIS, future edition 1 of IEC 62841-3-7, prepared by IEC/TC 116 "Safety of motor-operated electric tools" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62841-3-7:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2022-04-26 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2025-04-26 document have to be withdrawn

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of EN IEC 62841-3-7:2021/A11:2021.

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Endorsement notice
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The text of the International Standard [IEC 62841-3-7:2020](https://standards.iteh.ai/standards/sist/e29adedd-09b7-4007-826d-a44a622db6fd/sist-en-iec-62841-3-7-2021) was approved by CENELEC as a European Standard ~~without any modification~~.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

ISO 11203:1995 NOTE Harmonized as EN ISO 11203:2009 (not modified)



IEC 62841-3-7

Edition 1.0 2020-06

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety –
Part 3-7: Particular requirements for transportable wall saws

Outils électroportatifs à moteur, outils portables et machines pour jardins et pelouses – Sécurité –
Partie 3-7: Exigences particulières pour les scies murales portables

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

Part 3-7: Particular requirements for transportable wall saws

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 62841-3-7 has been prepared by IEC technical committee 116: Safety of motor-operated electric tools.

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

FDIS	Report on voting
116/455/FDIS	116/461/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

This Part 3-7 is to be used in conjunction with IEC 62841-1:2014.

This Part 3-7 supplements or modifies the corresponding clauses in IEC 62841-1, so as to convert it into the IEC Standard: Particular requirements for transportable wall saws.

Where a particular subclause of Part 1 is not mentioned in this Part 3-7, 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 and figures which are additional to those in Part 1 are numbered starting from 101.

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 "<http://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.

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

Part 3-7: Particular requirements for transportable wall saws

1 Scope

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

Replacement of the third paragraph:

The **rated voltage** is not more than 250 V for single-phase a.c. or d.c. tools, and 480 V for three-phase a.c. tools.

Addition:

This document applies to transportable **wall saws** guided by a **track guiding system** intended for dry cutting or to be connected to a **liquid system** for cutting concrete, stone or similar material by means of a **diamond wheel**. The rated speed of the **diamond wheel** does not exceed a peripheral speed of 100 m/s at **rated capacity**.

This document does not apply to transportable **wall saws** that are intended to be left unattended while performing an operation.

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This document does not apply to transportable **wall saws** that employ hydraulic systems.

This document does not apply to hand-held cut-off machines.

NOTE 101 Hand-held cut-off machines will be covered by a future part of IEC 62841-2.

2 Normative references

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

Replacement of normative reference ISO 3744:

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*

Replacement of normative reference ISO 11201:

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*

Addition:

IEC 61008-1:2010, *Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) – Part 1: General rules*

IEC 61008-1:2010/AMD1:2012

IEC 61008-1:2010/AMD2:2013

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

ISO 6603-1, *Plastics – Determination of puncture impact behaviour of rigid plastics – Part 1: Non-instrumented impact testing*

3 Terms and definitions

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

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

3.36 *Addition:*

NOTE 101 to entry: The primary function of a **wall saw** is the operation of the **diamond wheel**.

3.58 *Modification:*

Item g) is not applicable.

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3.101

diamond wheel

metal wheel with a continuous or segmented abrasive rim

3.102

flange

collar, disc, or plate between or against which **diamond wheels** are mounted

3.103

rated capacity

maximum intended diameter of the **diamond wheel** to be fitted on the tool as recommended by the manufacturer's instructions

3.104

remote connection

active communication between the tool and **remote control**, either wired or wireless

3.105

remote control

unit with an enclosure separate from the **wall saw** with user controls consisting of at least a **power switch** for attended operation of the **wall saw**

Note 1 to entry: Controlling a **wall saw** with a **remote control** provides improved ergonomics for the operator.

3.106

saw unit

unit on which the **diamond wheel**, the **wheel guard** and the interface to connect it to the **track guiding system** are mounted

3.107
track guiding system

device for guiding the **saw unit** during the cutting operation and which is mounted to the workpiece

3.108
wall saw

tool designed to saw or groove concrete, stone or similar material, consisting of a **saw unit** and a **track guiding system**, which are combined for **normal operation** by a suitable interface and operated with or without a **remote control**

Note 101 to entry: See Figure 101 and Figure 102.

3.109
wheel guard

device which partly encloses the **diamond wheel** and gives protection to the operator

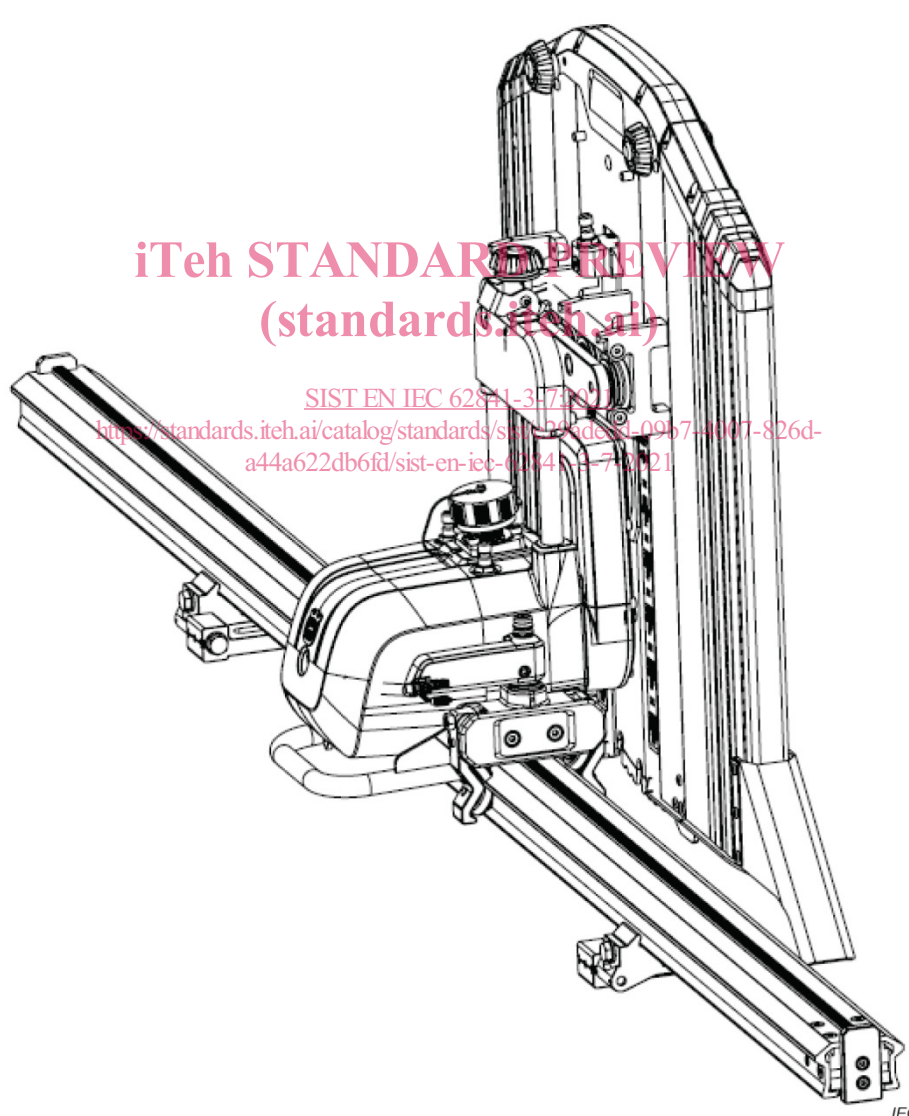


Figure 101 – Wall saw