

# INTERNATIONAL STANDARD

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**Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety -  
Part 3-17: Particular requirements for transportable table masonry saws**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**Electric motor-operated hand-held tools, transportable tools and  
lawn and garden machinery - Safety -  
Part 3-17: Particular requirements for transportable table masonry saws**

## FOREWORD

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IEC 62841-3-17 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
116/953/FDIS	116/984/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 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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

This document is to be used in conjunction with IEC 62841-1:2014 and IEC 62841-1:2014/AMD1:2025.

This document supplements or modifies the corresponding clauses in IEC 62841-1:2014, so as to convert it into the IEC Standard: Particular requirements for transportable table masonry saws.

Where a particular subclause of IEC 62841-1:2014 is not mentioned in this document, that subclause applies as far as relevant. Where this document states "addition", "modification" or "replacement", the relevant text in IEC 62841-1:2014 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 62841-1:2014, except as described for Annex K below, are numbered starting from 101.

Subclauses, notes, tables and figures in Annex K which are additional to those in the main body of this document are numbered starting from 301.

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, 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](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

## 1 Scope

IEC 62841-1:2014, Clause 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 **type 1 table masonry saws** and **type 2 table masonry saws** that are equipped with one or more **diamond cutting wheels** with peripheral gaps, if any, not exceeding 10 mm and having no positive rake angle, having a diameter not exceeding 600 mm and used for cutting tile, bricks, stone, concrete block or other similar material.

This document also applies to transportable **type 4 masonry saws** intended only for use with continuous rim **diamond cutting wheels** having a diameter not exceeding 260 mm and used for cutting tile, bricks, stone, concrete block or other similar material.

This document does not apply to tools equipped with bonded abrasive wheels.

This document does not apply to transportable cut-off machines.

NOTE 101 Transportable cut-off machines are covered by IEC 62841-3-10.

This document does not apply to type-3 cutting off machines in accordance with EN 12418:2021.

## 2 Normative references

IEC 62841-1:2014, Clause 2 and IEC 62841-1:2014/AMD1:2025, Clause 2 are applicable, except as follows.

*Replacement*

IEC 61540:2023, *Portable residual current devices (PRCDs) without integral overcurrent protection for household and similar use*

*Addition:*

IEC 60335-2-41:2024, *Household and similar electrical appliances - Safety - Part 2-41: Particular requirements for pumps*

IEC 61008-1:2024, *Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) - Part 1: General rules*

IEC 61008-2-1:2024, *Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) - Part 2-1: RCCBs according to classification 4.1.1*

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

IEC 62841-1:2014/AMD1:2025

ISO 6603-1:2000, *Plastics - Determination of puncture impact behaviour of rigid plastics - Part 1: Non-instrumented impact testing*

### 3 Terms and definitions

IEC 62841-1:2014, Clause 3 and IEC 62841-1:2014/AMD1:2025, Clause 3 are applicable, except as follows.

*Addition:*

#### 3.101

##### **cutting head**

part of the tool where the **diamond cutting wheel** is mounted

#### 3.102

##### **diamond cutting wheel**

metal wheel with the abrasives located on the periphery of the wheel

#### 3.103

##### **flange**

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

#### 3.104

##### **inner flange**

**flange** which contacts and provides support to the back side of the **diamond cutting wheel** and is located on the spindle between the **diamond cutting wheel** and tool

#### 3.105

##### **outer flange**

**flange** which supports the front side of the **diamond cutting wheel** and secures and clamps the **diamond cutting wheel** to the spindle and the **inner flange**

#### 3.106

##### **rated capacity**

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

#### 3.107

##### **table masonry saw**

**transportable tool** equipped with a **diamond cutting wheel** for cutting masonry type material

#### 3.108

##### **dry table masonry saw**

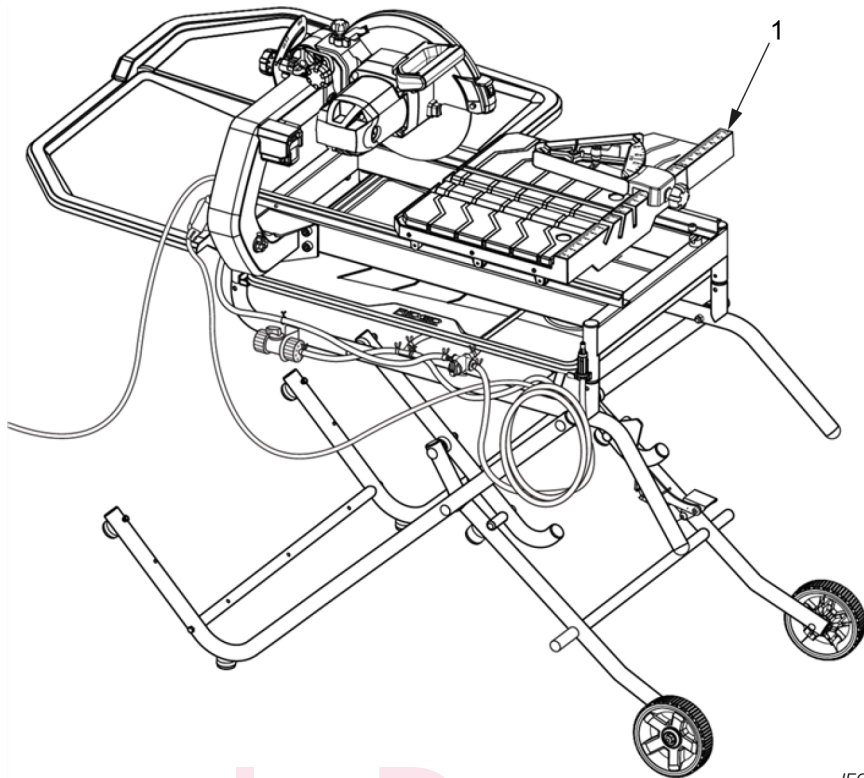
**table masonry saw** without a **liquid system**

#### 3.109

##### **type 1 table masonry saw**

**table masonry saw** with a movable **work table** and a **cutting head** above the work table

Note 101 to entry: See Figure 101.



**Key**

1 material stop

**Figure 101 – Example of a type 1 table masonry saw**

**3.110**

**type 2 table masonry saw**

**table masonry saw** with a horizontally movable **cutting head** above a fixed **work table**

Note 101 to entry: See Figure 102.