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Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-10: Particular requirements for hand-held mixers

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 12/17

Obsahuje: EN 62841-2-10:2017, IEC 62841-2-10:2017

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Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2018  
Podľa zákona č. 264/1999 Z. z. o technických požiadavkách na výrobky a o posudzovaní zhody a o zmene a doplnení niektorých zákonov v znení neskorších predpisov sa slovenská technická norma a časti slovenskej technickej normy môžu rozmnožovať alebo rozširovať len so súhlasom slovenského národného normalizačného orgánu.

EUROPEAN STANDARD

**EN 62841-2-10**

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2017

ICS 25.140.20

English Version

**Electric motor-operated hand-held tools, transportable tools and  
lawn and garden machinery - Safety - Part 2-10: Particular  
requirements for hand-held mixers  
(IEC 62841-2-10:2017 , modified)**

Outils électroportatifs à moteur, outils portables et machines  
pour jardins et pelouses - Sécurité - Partie 2-10: Exigences  
particulières pour les mélangeurs manuels  
(IEC 62841-2-10:2017 , modifiée)

Elektrische motorbetriebene handgeführte Werkzeuge,  
transportable Werkzeuge und Rasen- und  
Gartenmaschinen - Sicherheit - Teil 2-10: Besondere  
Anforderungen für handgeführte Rührwerke  
(IEC 62841-2-10:2017 , modifiziert)

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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

## European foreword

The text of document 116/303/FDIS, future edition 1 of IEC 62841-2-10, 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 62841-2-10:2017.

A draft amendment, which covers common modifications to IEC 62841-2-10 (116/303/FDIS), was prepared by CLC/TC 116 "Safety of motor-operated electric tools" and approved by CENELEC.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2018-01-09
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2021-01-09

This European Standard is divided into four parts:

Part 1: General requirements which are common to most hand-held electric motor operated tools (for the purpose of this standard referred to simply as tools) which could come within the scope of this standard;

Part 2, 3 or 4: Requirements for particular types of tools which either supplement or modify the requirements given in Part 1 to account for the particular hazards and characteristics of these specific tools.

This Part 2-10 is to be used in conjunction with EN 62841-1:2015.

This Part 2-10 supplements or modifies the corresponding clauses in EN 62841-1:2015, so as to convert it into the European Standard: Particular requirements for hand-held mixers.

Where a particular subclause of Part 1 is not mentioned in this Part 2-10, that subclause applies as far as relevant. When 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 smaller roman type.

The terms defined in Clause 3 are printed in **bold typeface**.

Subclauses, notes, tables and figures which are additional to those in Part 1 are numbered starting from 101.

Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62841-2-10:2017 are prefixed "Z".

This European Standard follows the overall requirements of EN ISO 12100.

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 this document.

Compliance with the clauses of Part 1 together with this Part 2-10 provides one means of conforming with the essential health and safety requirements of the Directive concerned.

## Endorsement notice

The text of the International Standard IEC 62841-2-10:2017 was approved by CENELEC as a European Standard with agreed common modifications.

### COMMON MODIFICATIONS

#### 18 Abnormal operation

*Replace the existing subclause 18.8 with the following:*

##### 18.8 Replacement of Table 4:

**Table 4 – Required performance levels**

Type and purpose of SCF	Minimum Performance Level (PL)
<b>Power switch</b> – prevent unwanted switch-on	b
<b>Power switch</b> – provide desired switch-off	a
Any electronic control to pass the test of 18.3	a
Any speed limiting device	Not an <b>SCF</b>
Provide desired direction of rotation	Not an <b>SCF</b>
Prevent exceeding thermal limits as in Clause 18	a
Prevent self-resetting as required in 23.3	b
Prevent unwanted lock-on of the <b>power switch</b> function	a
Restart prevention as required by 21.18.1.1	b

#### 21 Construction

*Replace the note in 21.18.1.1 with the following:*

For **mixers**, either

- the **power switch** shall be a **momentary power switch** without having a locking arrangement in the “on” position

or

- the tool shall not restart after an interruption of the mains supply without releasing and re-actuating the **power switch**.

## **Annex I**

*Replace the title of Annex I with the following:*

### **Annex I** (normative)

#### **Measurement of noise and vibration emissions**

*and delete the note.*

## Annex K (normative)

### Battery tools and battery packs

*Replace the note with the following:*

#### **K.21.18.Z101 Isolation and disabling device**

Tools with an **integral battery** shall either be equipped

- with an isolation device to prevent the risk of injury from mechanical hazards during servicing or **user maintenance**; or
- with a disabling device that prevents unintentional starting of the tool.

An isolation device shall

- provide disconnection of all poles of the **battery** from the serviceable region of the tool;
- be equipped with an unambiguous indication of the state of the disconnection device which corresponds to each position of its manual control (actuator);
- be provided with protection against accidental reconnection.

NOTE 1 Examples of methods to achieve this disconnection include removable jumpers, **integral batteries** that can be disconnected for servicing or **user maintenance**, or an electromechanical **power switch** with a direct mechanical link between the actuator and the contact.

NOTE 2 The risk of accidental reconnection for a **power switch** is addressed by the requirement of 21.18.1.2. The other examples in NOTE 1 achieve this by the necessary actions for reconnection.

A disabling device may be achieved by any of the following:

- a self-restoring or non-self-restoring lock-off device where two separate and dissimilar actions are necessary before the motor is switched on (e.g. a **power switch** which has to be pushed in before it can be moved laterally to close the contacts to start the motor). It shall not be possible to achieve these two actions with a single grasping motion or a straight line motion;
- a removable disabling device provided with the tool where it shall not be possible for the tool to be operated when either applied or removed.

*Compliance is checked by inspection and by manual test.*

## Annex L (normative)

### Battery tools and battery packs provided with mains connection or non-isolated sources

*Replace the note with the following:*

#### L.21.18.Z101 Isolation and disabling device

Tools with an **integral battery** shall either be equipped

- with an isolation device to prevent the risk of injury from mechanical hazards during servicing or **user maintenance**; or
- with a disabling device that prevents unintentional starting of the tool.

An isolation device shall

- provide disconnection of all poles of the **battery** from the serviceable region of the tool;
- be equipped with an unambiguous indication of the state of the disconnection device which corresponds to each position of its manual control (actuator);
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- a removable disabling device provided with the tool where it shall not be possible for the tool to be operated when either applied or removed.

*Compliance is checked by inspection and by manual test.*



*Add the following annex:*

**Annex ZZ**  
(informative)

**Relationship between this European Standard and the essential requirements  
of Directive 2006/42/EC [2006 OJ L157] aimed to be covered**

This European Standard has been prepared under a Commission's standardization request M/396 to provide one voluntary means of conforming to essential requirements of Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC.

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZZ.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive, and associated EFTA regulations.

**Table ZZ.1 – Correspondence between this European Standard  
and Annex I of Directive 2006/42/EC**

Essential Requirements of Directive 2006/42/EC	Clause(s) / sub-clause(s) of this EN	Remarks / Notes
Annex I	All clauses	All corresponding requirements are covered by complying with all clauses.

**WARNING 1:** Presumption of conformity stays valid only as long as a reference to this European standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

**WARNING 2:** Other Union legislation may be applicable to the product(s) falling within the scope of this standard.

## Bibliography

*Add the following note for the standard indicated:*

IEC 62841-2-1      NOTE      Harmonized as EN 62841-2-1 1).

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1) At draft stage.



# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety –  
Part 2-10: Particular requirements for hand-held mixers**

**Outils électroportatifs à moteur, outils portables et machines pour jardins et pelouses – Sécurité –  
Partie 2-10: Exigences particulières pour les mélangeurs manuels**



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IEC Central Office  
 3, rue de Varembe  
 CH-1211 Geneva 20  
 Switzerland

Tel.: +41 22 919 02 11  
 Fax: +41 22 919 03 00  
[info@iec.ch](mailto:info@iec.ch)  
[www.iec.ch](http://www.iec.ch)

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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety –  
Part 2-10: Particular requirements for hand-held mixers**

**Outils électroportatifs à moteur, outils portables et machines pour jardins et pelouses – Sécurité –  
Partie 2-10: Exigences particulières pour les mélangeurs manuels**

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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 2-10: Particular requirements for hand-held mixers**

## FOREWORD

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International Standard IEC 62841-2-10 has been prepared by IEC technical committee 116: Safety of motor-operated electric tools.

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

FDIS	Report on voting
116/303/FDIS	116/313/RVD

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

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



This Part 2-10 is to be used in conjunction with the first edition of IEC 62841-1 (2014).

This Part 2-10 supplements or modifies the corresponding clauses in IEC 62841-1, so as to convert it into the IEC standard: Particular requirements for hand-held mixers.

Where a particular subclause of Part 1 is not mentioned in this Part 2-10, 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 publication will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
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- 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 2-10: Particular requirements for hand-held mixers

### 1 Scope

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

*Addition:*

This part of IEC 62841 applies to **mixers**. **Mixers** are not considered to be tools with a **liquid system**.

This standard does not apply to drills and impact drills, even if they can be used as a **mixer**.

NOTE 101 Drills and impact drills are covered by IEC 62841-2-1.

### 2 Normative references

This clause of Part 1 is applicable.

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**