

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



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

**Outils électroportatifs à moteur, outils portables et machines pour jardins et pelouses – Sécurité –  
Partie 2-2: Règles particulières pour les visseuses et les clés à chocs portatives**



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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

## **Part 2-2: Particular requirements for hand-held screwdrivers and impact wrenches**

## FOREWORD

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International Standard IEC 62841-2-2 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 |
|--------------|------------------|
| 116/162/FDIS | 116/177/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 2-2 is to be used in conjunction with the first edition of IEC 62841-1:2014.

This Part 2-2 supplements or modifies the corresponding clauses in IEC 62841-1, so as to convert it into the IEC Standard: Particular requirements for hand-held screwdrivers and impact wrenches.

Where a particular subclause of Part 1 is not mentioned in this Part 2-2, that subclause applies as far as reasonable. 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 web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication 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 2-2: Particular requirements for hand-held screwdrivers and impact wrenches

### 1 Scope

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

*Addition:*

This part of IEC 62841 applies to **screwdrivers** and **impact wrenches**.

This standard does not apply to drills that can be used for driving screws by attaching **screwdriver** bits.

### 2 Normative references

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

*Addition:*

ISO 28927-2:2009, *Hand-held portable power tools – Test methods for evaluation of vibration emission – Part 2: Wrenches, nutrunners and screwdrivers*

### 3 Terms and definitions

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

Additional definitions:

#### 3.101

##### **screwdriver**

tool equipped with a non-circular tool holder, such as hexagonal or square, intended for tightening and loosening screws, nuts, and the like and not equipped with an impact mechanism but which may have a device for depth setting or setting the torque or means for switching off the rotation

#### 3.102

##### **impact wrench**

tool equipped with a non-circular tool holder, such as hexagonal or square, intended for tightening and loosening screws, nuts, and the like and equipped with a rotary impact mechanism

Note 1 to entry: Some **impact wrenches** are equipped with a means for depth setting and may have a means for setting the torque or switching off the rotation.