

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety –
Part 3-4: Particular requirements for transportable bench grinders**

**Outils électroportatifs à moteur, outils portables et machines pour jardins et pelouses – Sécurité –
Partie 3-4: Exigences particulières pour les tourets à meuler transportables**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRIC MOTOR-OPERATED HAND-HELD TOOLS, TRANSPORTABLE
TOOLS AND LAWN AND GARDEN MACHINERY –
SAFETY –****Part 3-4: Particular requirements for transportable bench grinders**

FOREWORD

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IEC 62841-3-4 edition 1.2 contains the first edition (2016-02) [documents 116/258/FDIS and 116/275/RVD], its corrigendum (2016-12), its amendment 1 (2019-07) [documents 116/381/CDV and 116/401/RVC] and its amendment 1 (2024-02) [documents 116/693/FDIS and 116/731/RVD].

In this Redline version, a vertical line in the margin shows where the technical content is modified by amendments 1 and 2. Additions are in green text, deletions are in strikethrough red text. A separate Final version with all changes accepted is available in this publication.

International Standard IEC 62841-3-4 has been prepared by IEC technical committee 116: Safety of motor-operated electric tools.

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

This Part 3-4 is to be used in conjunction with the first edition of IEC 62841-1:2014.

This Part 3-4 supplements or modifies the corresponding clauses in IEC 62841-1, so as to convert it into the IEC Standard: Particular requirements for transportable bench grinders.

Where a particular subclause of Part 1 is not mentioned in this Part 3-4, 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.

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

Part 3-4: Particular requirements for transportable bench grinders

1 Scope

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

Addition:

This part of IEC 62841 applies to transportable **bench grinders** that can be equipped with one or two **accessories** as follows:

- type 1 grinding wheels ~~in accordance with ISO 603-4:1999~~ (see Figure 106) with a diameter not exceeding 310 mm and a thickness not exceeding 55 mm;
- wire brushes with a diameter not exceeding 310 mm and a thickness not exceeding 55 mm;
- polishing wheels with a diameter not exceeding 310 mm,

and with a peripheral speed of any **accessory** between 10 m/s and 50 m/s.

NOTE Polishing wheels are also known as buffing wheels.

This document does not apply to tools intended for lapidary grinding operations.

2 Normative references

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

Addition:

~~ISO 603-4:1999, Borided abrasive products – Dimensions – Part 4: Grinding wheels for surface grinding/peripheral grinding~~

3 Terms and definitions

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

3.101 bench grinder

tool designed to grind, clean, polish or debur metal or similar materials by means of one or two rotating **accessories** fixed to one or two **tool spindles**, see Figure 101, where the workpiece is held by hand and possibly assisted by a **work rest**

3.102 tool spindle

drive spindle of a **bench grinder** which supports the **accessories** and provides the rotation