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Electric motor-operated hand-held tools, transportable  
tools and lawn and garden machinery - Safety - Part  
2-3: Particular requirements for hand-held grinders,  
disc-type polishers and disc-type sanders

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN IEC 62841-2-3:2021 sisaldab Euroopa standardi EN IEC 62841-2-3:2021 ingliskeelset teksti.	This Estonian standard EVS-EN IEC 62841-2-3:2021 consists of the English text of the European standard EN IEC 62841-2-3:2021.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 28.05.2021.	Date of Availability of the European standard is 28.05.2021.
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## English Version

**Electric motor-operated hand-held tools, transportable tools and  
lawn and garden machinery - Safety - Part 2-3: Particular  
requirements for hand-held grinders, disc-type polishers and  
disc-type sanders  
(IEC 62841-2-3:2020)**

Outils électroportatifs à moteur, outils portables et machines  
pour jardins et pelouses - Sécurité - Partie 2-3: Exigences  
particulières pour les meuleuses portatives et pour les  
lustreuses et ponceuses portatives du type à disque  
(IEC 62841-2-3:2020)

Elektrische motorbetriebene handgeführte Werkzeuge,  
transportable Werkzeuge und Rasen- und  
Gartenmaschinen - Sicherheit - Teil 2-3: Besondere  
Anforderungen für handgeführte Schleifer, Polierer mit  
Polierscheibe und Schleifer mit Schleifblatt  
(IEC 62841-2-3:2020)

This European Standard was approved by CENELEC on 2020-05-19. 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.

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

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

## European foreword

The text of document 116/444/FDIS, future edition 1 of IEC 62841-2-3, 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 62841-2-3:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2022-05-03 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2025-05-03 document have to be withdrawn

This document supersedes EN 60745-2-3:2011 and all of its amendments and corrigenda (if any).

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For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of EN IEC 62841-2-3:2021/A11:2021.

## Endorsement notice

The text of the International Standard IEC 62841-2-3:2020 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60086-1	NOTE	Harmonized as EN 60086-1
IEC 61010-031	NOTE	Harmonized as EN 61010-031
IEC 61439-1	NOTE	Harmonized as EN 61439-1
IEC 62368-1	NOTE	Harmonized as EN IEC 62368-1
ISO 13857:2019	NOTE	Harmonized as EN ISO 13857:2019 (not modified)

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety –**

**Part 2-3: Particular requirements for hand-held grinders, disc-type polishers and disc-type sanders**

**Outils électroportatifs à moteur, outils portables et machines pour jardins et pelouses – Sécurité –**

**Partie 2-3: Exigences particulières pour les meuleuses portatives et pour les lustreuses et ponceuses portatives du type à disque**



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# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety –  
Part 2-3: Particular requirements for hand-held grinders, disc-type polishers and disc-type sanders**

**Outils électroportatifs à moteur, outils portables et machines pour jardins et pelouses – Sécurité –  
Partie 2-3: Exigences particulières pour les meuleuses portatives et pour les lustreuses et ponceuses portatives du type à disque**

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## CONTENTS

FOREWORD .....	5
1 Scope .....	7
2 Normative references .....	7
3 Terms and definitions .....	7
4 General requirements .....	10
5 General conditions for the tests .....	11
6 Radiation, toxicity and similar hazards .....	11
7 Classification .....	11
8 Marking and instructions .....	11
9 Protection against access to live parts .....	18
10 Starting .....	18
11 Input and current .....	18
12 Heating .....	18
13 Resistance to heat and fire .....	18
14 Moisture resistance .....	18
15 Resistance to rusting .....	18
16 Overload protection of transformers and associated circuits .....	19
17 Endurance .....	19
18 Abnormal operation .....	19
19 Mechanical hazards .....	19
20 Mechanical strength .....	27
21 Construction .....	37
22 Internal wiring .....	41
23 Components .....	41
24 Supply connection and external flexible cords .....	41
25 Terminals for external conductors .....	41
26 Provision for earthing .....	41
27 Screws and connections .....	41
28 Creepage distances, clearances and distances through insulation .....	41
Annexes .....	42
Annex I (informative) Measurement of noise and vibration emissions .....	42
Annex K (normative) Battery tools and battery packs .....	51
Annex L (normative) Battery tools and battery packs provided with mains connection or non-isolated sources .....	54
Annex AA (normative) Wheel guard types .....	55
Annex BB (informative) Material and thickness of wheel guards .....	61
Annex CC (normative) Wheel type specifications .....	62
Bibliography .....	68
Figure 101 – Example of an angle grinder .....	9
Figure 102 – Example of a straight grinder .....	9
Figure 103 – Example of a vertical grinder .....	10



Figure 104 – Examples of gaps and rake angles .....	17
Figure 105 – Principal dimensions of flanges for wheels other than Type 4 .....	24
Figure 106 – Principal dimensions of flanges for wheels type 4 .....	24
Figure Z101 – Depressed centre of abrasive wheels .....	25
Figure 107 – Wheel guard strength test: explanation of wheel guard positions .....	29
Figure 108 – Wheel guard strength test: preparation of the grinder .....	30
Figure 109 – Wheel guard strength test: preparation of cup wheel types 6 and 11 .....	31
Figure 110 – Wheel guard strength test: angle grinders and vertical grinders without side handles .....	32
Figure 111 – Wheel guard strength test box .....	33
Figure 112 – Wheel guard strength test: straight grinder with additional masses .....	37
Figure 113 – Measurement of handle gripping length .....	39
Figure 114 – Measurement of handle gripping length .....	40
Figure 115 – Measurement of handle gripping length for a handle with finger grips or similar superimposed profiles .....	40
Figure I.101 – Positions of transducers for straight grinders .....	42
Figure I.102 – Positions of transducers for angle grinders .....	43
Figure I.103 – Positions of transducers for disc-type polishers and disc-type sanders .....	43
Figure I.104 – Artificial grinding wheel for angle grinding and concrete grinding .....	45
Figure I.105 – Working positions of operator and application of force .....	46
Figure I.106 – Artificial grinding wheel for straight grinding .....	48
Figure AA.1 – Design example for wheel guard of Type A (cut-off wheel guard) .....	55
Figure AA.2 – Wheel guard of Type B (grinding wheel guard) .....	56
Figure AA.3 – Wheel guard of Type C (combination wheel guard) .....	57
Figure AA.4 – Adjustable wheel guard of Type D (cup wheel guard) .....	57
Figure AA.5 – Wheel guard of Type E (diamond surface grinding wheel guard) .....	58
Figure AA.6 – Wheel guard of Type F (masonry cut-off wheel guard) .....	59
Figure AA.7 – Wheel guard of Type G (straight grinder wheel guard) .....	60
Figure CC.1 – Wheel type 1 .....	62
Figure CC.2 – Wheel type 4 .....	63
Figure CC.3 – Wheel type 6 .....	63
Figure CC.4 – Wheel type 11 .....	64
Figure CC.5 – Wheel type 27 .....	65
Figure CC.6 – Wheel type 28 .....	65
Figure CC.7 – Wheel type 29 .....	66
Figure CC.8 – Wheel type 41 .....	66
Figure CC.9 – Wheel type 42 .....	67
Table 4 – Required performance levels .....	19
Table 101 – Accessories and guards for various applications .....	22
Table Z101 – Dimensions of depressed centre wheels .....	25
Table 102 – Minimum flange dimensions for wheel type 4 .....	26
Table 103 – Torques for testing flanges .....	26
Table 104 – Typical pre-cut length ranges for standard wheel dimensions .....	31

Table 105 – Guard thickness for diamond cutting wheels .....	34
Table 106 – Typical pre-cut length ranges for standard wheel dimensions .....	36
Table I.101 – Test conditions for angle grinding and concrete grinding .....	44
Table I.102 – Dimensions of the artificial wheel of Figure I.104 or Figure I.106 for angle grinding, cutting off and concrete grinding.....	46
Table I.103 – Feed force .....	46
Table I.104 – Test conditions for straight grinding .....	47
Table I.105 – Dimensions of the artificial wheel of Figure I.106 for straight grinding.....	48
Table I.106 – Test conditions for polishing .....	49
Table I.107 – Test conditions for disc-type sanding .....	49
Table 4 – Required performance levels .....	51
Table BB.101 – Wheel guard thickness .....	61

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRIC MOTOR-OPERATED HAND-HELD TOOLS, TRANSPORTABLE TOOLS AND LAWN AND GARDEN MACHINERY – SAFETY –****Part 2-3: Particular requirements for hand-held grinders, disc-type polishers and disc-type sanders**

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International Standard IEC 62841-2-3 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
116/444/FDIS	116/454/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 2-3 is to be used in conjunction with the first edition of IEC 62841-1:2014.

This Part 2-3 supplements or modifies the corresponding clauses in IEC 62841-1, so as to convert it into the IEC Standard: Particular requirements for hand-held grinders, disc-type polishers and disc-type sanders.

Where a particular subclause of Part 1 is not mentioned in this Part 2-3, 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 in **bold typeface** in the text are defined in Clause 3

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

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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 2-3: Particular requirements for hand-held grinders, disc-type polishers and disc-type sanders

#### 1 Scope

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

*Addition:*

This part of IEC 62841 applies to hand-held **grinders**, **disc-type polishers** and **disc-type sanders**, including angle, straight and vertical tools, intended for use on various materials except magnesium, with a **rated capacity** not exceeding 230 mm. For **grinders**, the **rated no-load speed** does not exceed a peripheral speed of the **accessory** of 80 m/s at **rated capacity**.

This standard does not apply to dedicated cut-off machines.

NOTE 101 It is planned that a document on cut-off machines will be published.

This standard does not apply to orbital polishers and orbital sanders.

NOTE 102 It is planned that a document on orbital polishers and orbital sanders will be published.

This standard does not apply to die grinders.

NOTE 103 Die grinders are covered by IEC 62841-2-23.

#### 2 Normative references

This clause of Part 1 is applicable except as follows:

*Addition:*

ISO 525:2013, *Bonded abrasive products – General requirements*

#### 3 Terms and definitions

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

##### 3.101

##### **blotter**

thin piece of an easily compressible material, between the abrasive product and **flange**

##### 3.102

##### **diamond wheel**

metal wheel with continuous or segmented diamond abrasives