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Responsible committee: CPL/116 Safety of motor-operated electric tools

Interested committees:

Title: Draft BS EN IEC 62841-3-3 Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety. Part 3-3: Particular requirements for transportable planers and thicknessers.

Please notify the secretary if you are aware of any keywords that might assist in classifying or identifying the standard or if the content of this standard

- i) has any issues related to 3rd party IPR, patent or copyright
- ii) affects other national standard(s)
- iii) requires additional national guidance or information

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This draft is issued to allow comments from interested parties; all comments will be given consideration prior to publication. No acknowledgement will normally be sent. **See overleaf for information on the submission of comments.**

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Full document details: 22/30448563 DC

Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



116/570/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER:

IEC 62841-3-3 ED1

DATE OF CIRCULATION:

2022-02-04

CLOSING DATE FOR VOTING:

2022-04-29

SUPERSEDES DOCUMENTS:

116/534/NP, 116/547/RVN

IEC TC 116 : SAFETY OF MOTOR-OPERATED ELECTRIC TOOLS

SECRETARIAT:

United States of America

SECRETARY:

Mr Joseph Harding

OF INTEREST TO THE FOLLOWING COMMITTEES:

PROPOSED HORIZONTAL STANDARD:



Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.

FUNCTIONS CONCERNED:

☐ EMC

☐ ENVIRONMENT

☐ QUALITY ASSURANCE

☒ SAFETY

☒ SUBMITTED FOR CENELEC PARALLEL VOTING

☐ NOT SUBMITTED FOR CENELEC PARALLEL VOTING

Attention IEC-CENELEC parallel voting

The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting.

The CENELEC members are invited to vote through the CENELEC online voting system.

This document is still under study and subject to change. It should not be used for reference purposes.

Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

TITLE:

Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-3: Particular requirements for transportable planers and thicknessers

PROPOSED STABILITY DATE: 2027

NOTE FROM TC/SC OFFICERS:

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRIC MOTOR-OPERATED HAND-HELD TOOLS, TRANSPORTABLE
TOOLS AND LAWN AND GARDEN MACHINERY –
SAFETY –****Part 3-3: Particular requirements for transportable planers and
thicknessers****FOREWORD**

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- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

IEC 62841-3-3 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:

FDIS	Report on voting
116/XX/FDIS	116/XX/RVD

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

115 The language used for the development of this International Standard is English.

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

117 This document supplements or modifies the corresponding clauses in IEC 62841-1, so as to
118 convert it into the IEC Standard: Particular requirements for transportable planers and
119 thicknessers.

120 Where a particular subclause of IEC 62841-1 is not mentioned in this document, that
121 subclause applies as far as reasonable. Where this document states “addition”, “modification”
122 or “replacement”, the relevant text in IEC 62841-1 is to be adapted accordingly.

123 The following print types are used:

- 124 – requirements: in roman type;
- 125 – *test specifications: in italic type;*
- 126 – notes: in small roman type.

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

128 Subclauses, notes, tables and figures which are additional to those in IEC 62841-1 are
129 numbered starting from 101.

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

132 A list of all parts of the IEC 62841 series, under the general title: *Electric motor-operated*
133 *hand-held tools, transportable tools and lawn and garden machinery – Safety*, can be found
134 on the IEC website.

135 This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in
136 accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement,
137 available at www.iec.ch/members_experts/refdocs. The main document types developed by
138 IEC are described in greater detail at www.iec.ch/standardsdev/publications.

139 The committee has decided that the contents of this document will remain unchanged until the
140 stability date indicated on the IEC website under webstore.iec.ch in the data related to the
141 specific document. At this date, the document will be

- 142 • reconfirmed,
- 143 • withdrawn,
- 144 • replaced by a revised edition, or
- 145 • amended.

146 NOTE The attention of National Committees is drawn to the fact that equipment manufacturers and testing
147 organizations may need a transitional period following publication of a new, amended or revised IEC publication in
148 which to make products in accordance with the new requirements and to equip themselves for conducting new or
149 revised tests.

150 It is the recommendation of the committee that the content of this publication be adopted for implementation
151 nationally not earlier than 36 months from the date of publication.

152

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

Part 3-3: Particular requirements for transportable planers and thicknessers

1 Scope

IEC 62841-1:2014, Clause 1 is applicable, except as follows:

Addition:

This document applies to transportable **planers**, **thicknessers** and **combined planers and thicknessers** intended for cutting wood and analogous materials with a maximum planing width of 330 mm.

This document does not apply to **planers**, **thicknessers** or **combined planers and thicknessers** other than transportable.

NOTE 101 ISO 19085-7:2019 gives requirements for **planers**, **thicknessers** or **combined planers and thicknessers** other than transportable.

2 Normative references

IEC 62841-1:2014, Clause 2 is applicable, except as follows:

Addition:

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

3 Terms and definitions

IEC 62841-1:2014, Clause 3 is applicable, except as follows:

Addition:

3.101
combined planer and thicknesser
tool designed to carry out the functions of both a **planer** and a **thicknesser**

Note 101 to entry: See Figure 101.

3.102
cutter block
rotating assembly consisting of the drum, the blades, the blade fixing systems and the spindle

3.103
planer
tool designed to plane the surface of wood by means of a horizontally rotating **cutter block** located between two frames used to position and support the workpiece

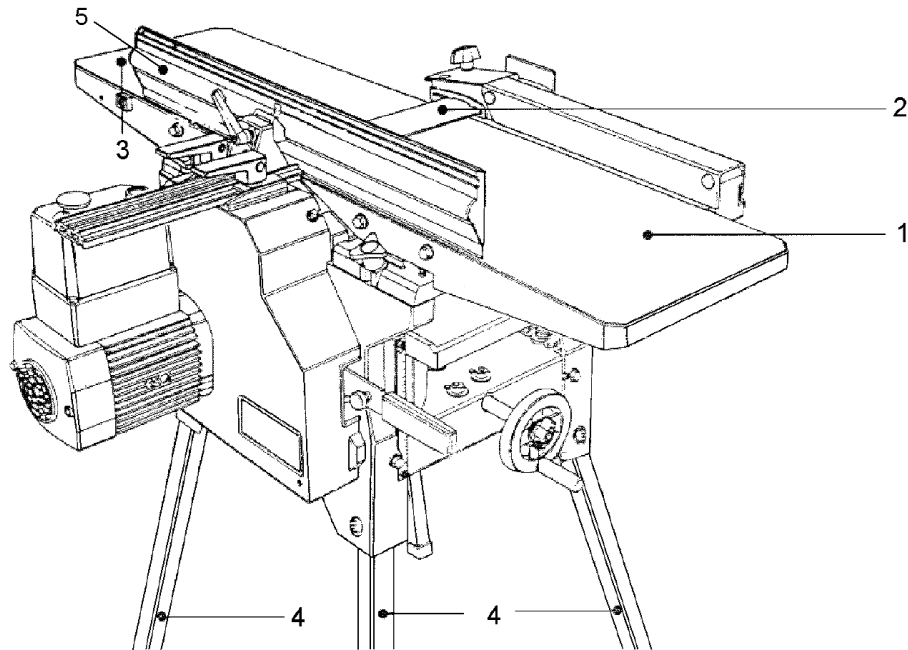
Note 101 to entry: The lower surface of the workpiece is planed.

3.104**thicknesser**

tool designed to plane wood to a set thickness by means of a horizontally rotating **cutter block**, the distance between the knives and the surface of the table supporting the workpiece being adjustable

Note 101 to entry: The upper surface of the workpiece is planed.

Note 102 to entry: See Figure 102.

**Key**

- 1 outfeed table
- 2 **guard** – bridge type
- 3 infeed table
- 4 detachable support
- 5 parallel guide

Figure 101 – Example of a combined planer and thicknesser

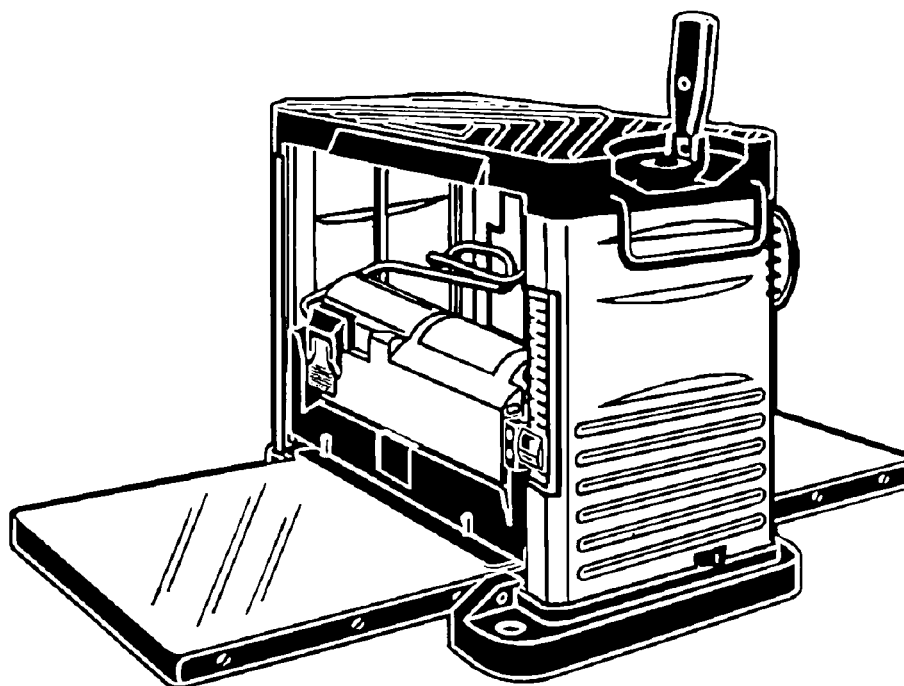


Figure 102 – Example of a thicknesser

4 General requirements

IEC 62841-1:2014, Clause 4 is applicable.

5 General conditions for the tests

IEC 62841-1:2014, Clause 5 is applicable, except as follows:

5.17 Addition:

*The mass of the tool includes the **cutter block**.*

6 Radiation, toxicity and similar hazards

IEC 62841-1:2014, Clause 6 is applicable.

7 Classification

IEC 62841-1:2014, Clause 7 is applicable.

8 Marking and instructions

IEC 62841-1:2014, Clause 8 is applicable, except as follows:

8.1 Addition:

Tools shall also be marked with:

- **rated no-load speed** of the **cutter block**; and

224 – planing width.

225 **8.3 Addition:**

226 The direction of rotation of the **cutter block** shall be indicated on the tool by an arrow raised
227 or sunk, or by any other means not less visible and indelible.

228 **8.14.2 a) Addition:**

229 101) Instruction how to check the **guard** adjusting arrangements and return springs, when
230 fitted, for faultless condition before use;

231 102) Instruction to use blades which are well sharpened and maintained. If blades are re-
232 sharpenable, information about the limits of re-sharpening;

233 103) Instruction to use only cutting blades designed for this machine;

234 104) Instruction how the blades shall be assembled and adjusted, if applicable;

235 105) Instruction that any portion of the **cutter block** not being used for planing shall be
236 adjusted to be guarded;

237 106) Instruction how to inspect the anti-kickback devices and feed speed spindles to ensure
238 safe operation;

239 107) Instruction to wear suitable protective equipment. This could include

240 – hearing protection, to reduce the risk of induced hearing loss;

241 – respiratory protection, to reduce the risk of inhalation of harmful dust; and

242 – gloves for handling the cutter block and rough material, to reduce injuries from
243 sharp edges;

244 108) For cutting wood, instruction on the correct assembly of a dust-collecting device;

245 109) Instructions how to adjust the **guards** and fence in relation to the different work.

246 **8.14.2 b) Addition:**

247 101) Information what kind of work can be performed safely;

248 102) For those machines designed for rebating: instruction for the safe operation;

249 103) Information about the location where the push-stick shall be stored when not in use;

250 104) Instruction on which situations the push-stick is to be used;

251 105) Information about the effects caused by metal parts penetrated into the workpiece and
252 splintery work pieces;

253 106) Instruction how correctly to use roller tables when cutting long work pieces;

254 107) A warning not to do the following operations:

255 – stopped work (i.e. any cut which does not involve the full work piece length);

256 – recesses, tenons or moulds; and

257 – planing of badly bowed wood where there is inadequate contact on the infeed
258 table.

259 **9 Protection against access to live parts**

260 IEC 62841-1:2014, Clause 9 is applicable.

261 **10 Starting**

262 IEC 62841-1:2014, Clause 10 is applicable.

11 Input and current

IEC 62841-1:2014, Clause 11 is applicable.

12 Heating

IEC 62841-1:2014, Clause 12 is applicable.

13 Resistance to heat and fire

IEC 62841-1:2014, Clause 13 is applicable.

14 Moisture resistance

IEC 62841-1:2014, Clause 14 is applicable.

15 Resistance to rusting

IEC 62841-1:2014, Clause 15 is applicable.

16 Overload protection of transformers and associated circuits

IEC 62841-1:2014, Clause 16 is applicable.

17 Endurance

IEC 62841-1:2014, Clause 17 is applicable.

18 Abnormal operation

IEC 62841-1:2014, Clause 18 is applicable, except as follows:

18.8 Replacement of Table 4:**Table 4 – Required performance levels**

Type and purpose of SCF	Minimum performance level (PL)
Power switch – prevent unwanted switch-on	b
Power switch – provide desired switch-off	c
Prevent output speed from exceeding 150 % of rated speed	a
Provide desired direction of rotation	b
Provide stopping time as required by 19.105	a
Any electronic control to pass the test of 18.3	a
Prevent exceeding thermal limits as in 18.4 and 18.5.3	a
Restart prevention as required by 21.18.2.1	b
Prevent self-resetting as required in 23.3	b

19 Mechanical hazards

IEC 62841-1:2014, Clause 19 is applicable, except as follows: