

INTERNATIONAL STANDARD

**Electric motor-operated tools – Dust measurement procedure –
Part 2-14: Particular requirements for hand-held planers**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRIC MOTOR-OPERATED TOOLS –
DUST MEASUREMENT PROCEDURE –****Part 2-14: Particular requirements for hand-held planers**

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IEC 63241-2-14 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:

Draft	Report on voting
116/777/CDV	116/848A/RVC

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

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

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

This document is to be used in conjunction with the first edition of IEC 63241-1:2023.

This document supplements or modifies the corresponding clauses in IEC 63241-1, so as to convert it into the IEC Standard: *Particular requirements for hand-held planers*.

Where a particular subclause of IEC 63241-1 is not mentioned in this document, that subclause applies as far as reasonable. Where this document states "addition", "modification" or "replacement", the relevant text in IEC 63241-1 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, tables and figures which are additional to those in IEC 63241-1 are numbered starting from 101.

A list of all parts of the IEC 63241 series, under the general title: *Electric motor-operated tools – Dust measurement procedure*, can be found on the IEC website.

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

- reconfirmed,
- withdrawn, or
- revised.

NOTE The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations can 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 TOOLS – DUST MEASUREMENT PROCEDURE –

Part 2-14: Particular requirements for hand-held planers

1 Scope

IEC 63241-1:2023, Clause 1 is applicable, except as follows:

Addition:

This part of IEC 63241 applies to **planers**.

2 Normative references

IEC 63241-1:2023, Clause 2 is applicable, except as follows:

Addition:

IEC 63241-1:2023, *Electric motor-operated tools – Dust measurement procedure – Part 1: General requirements*

3 Terms and definitions

IEC 63241-1:2023, Clause 3 is applicable, except as follows:

Addition:

3.101 planer

tool intended for removing surface material, equipped with a rotating cutting head where the axis of rotation of the cutting head is parallel to the base plate, which is the part supporting the tool on the workpiece

Note 1 to entry: The base plate consists of a fixed shoe and an adjustable shoe that determines the depth of cut.

4 Test procedure

IEC 63241-1:2023, Clause 4 is applicable, except as follows:

4.3 Operating conditions

Addition:

Planers intended to cut wood are tested under load observing the conditions shown in Table 101.

Table 101 – Operating conditions for planers intended to cut wood

Material and set-up	Beech: length = (400 ± 2) mm, width a = planing width minus (15 ± 2) mm, thickness sufficient for one test cycle. At the beginning of the test, the wood shall have a humidity of maximum 14 %. The workpiece is mounted horizontally on a bench with a working height matching the requirement for the vertical distance between the upper surface of the workpiece and the intake openings of the dust samplers as specified in IEC 63241-1:2023, 4.2.
Orientation and operation	Planing the complete length of 400 mm at the depth of cut specified below. During the test, the operator shall be positioned as illustrated in Figure 101. The test set-up illustrated in Figure 101 is appropriate for tools for right-handed use. For tools for left-handed use, the test set-up may be mirror-inverted.
Tool bit/settings	New blades at the beginning of each of the three tests. Cutting depth: 0,5 mm or maximum cutting depth if less than 0,5 mm.
Feed force	The feed force applied to the tool shall be sufficient to ensure stable operation with good performance.
Test	During the working time of one test cycle, 80 planing operations as specified above are performed equally distributed over the working time.

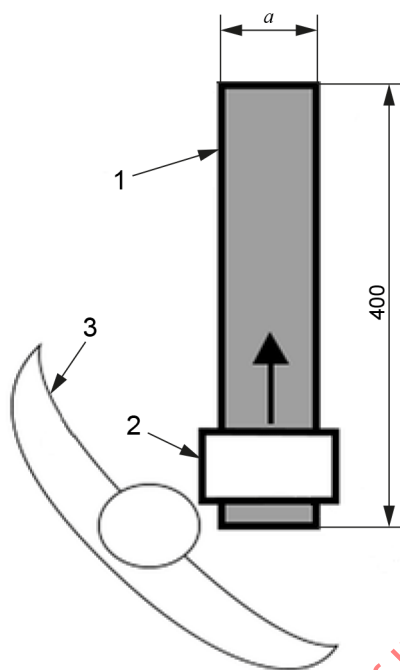
5 Instrumentation

IEC 63241-1:2023, Clause 5 is applicable.

6 Information to be reported

IEC 63241-1:2023, Clause 6 is applicable.

Dimensions in millimetres

**Key**

- 1 workpiece
- 2 tool
- 3 operator
- a width of the workpiece

Figure 101 – Orientation of workpiece, tool and operator during the tests