

SLOVENSKI STANDARD **oSIST prEN IEC 62841-4-10:2023**

01-november-2023

Elektromotorna ročna orodja, prenosna orodja ter stroji za trato in vrt - Varnost - 4-10. del: Posebne zahteve za obrezovalnike z drogom

Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4-10: Particular requirements for pole-mounted pruners

Outils électroportatifs à moteur, outils portables et machines pour jardins et pelouses -Sécurité - Partie 4-10: Exigences particulières pour les élagueuses sur perche

Ta slovenski standard je istoveten z: prEN IEC 62841-4-10:2023

ICS:

25.140.20 Električna orodja Electric tools

65.060.70 Vrtnarska oprema Horticultural equipment

oSIST prEN IEC 62841-4-10:2023 en oSIST prEN IEC 62841-4-10:2023

iTeh STANDARD PREVIEW (standards.iteh.ai)

oSIST prEN IEC 62841-4-10:2023 https://standards.iteh.ai/catalog/standards/sist/69144832-7975-4d54-b84d-78037b31905c/osist-pren-iec-62841-4-10-2023 PROJECT NUMBER: IEC 62841-4-10 ED1

DATE OF CIRCULATION:



116/674/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

CLOSING DATE FOR VOTING:

	2023-09-01		2023-11-24	
	SUPERSEDES DOCUM	MENTS:		
	116/652A/NP, 11	6/662/RVN		
IEC TC 116 : SAFETY OF MOTOR-OPERA	TED ELECTRIC TOOLS			
SECRETARIAT:		SECRETARY:		
United States of America		Mr Joseph Harding		
OF INTEREST TO THE FOLLOWING COMMITTEES:		PROPOSED HORIZONTAL STANDARD:		
		Other TC/SCs are any, in this CDV to	requested to indicate their interest, if the secretary.	
FUNCTIONS CONCERNED:	AND A I	Quality assura	ANCE SAFETY	
SUBMITTED FOR CENELEC PARALLEL	VOTING CLAIR C	☐ NOT SUBMITTED	FOR CENELEC PARALLEL VOTING	
Attention IEC-CENELEC parallel vot	ingst pren IEC			
The attention of IEC National Commi CENELEC, is drawn to the fact that th for Vote (CDV) is submitted for paralle	is Committee Draft		32-7975-4d54-b84d- .0-2023	
The CENELEC members are invited to CENELEC online voting system.	o vote through the			
This document is still under study and	subject to change. I	t should not be use	d for reference purposes.	
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Recipients of this document are invited to submit, with their comments, notification of any relevant "In Some Countries" clauses to be included should this proposal proceed. Recipients are reminded that the CDV stage is the final stage for submitting ISC clauses. (SEE AC/22/2007 OR NEW GUIDANCE DOC).				
TITLE:				
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4-10: Particular requirements for pole-mounted pruners				
PROPOSED STABILITY DATE: 2028				
Note from TC/SC officers:				
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

99 100

Part 4-10: Particular requirements for pole-mounted pruners

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FOREWORD

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- 4) 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.
- 138 IEC 62841-4-10 has been prepared by IEC technical committee 116: Safety of motor-operated electric tools. It is an International Standard.
- 140 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.
- 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
- 148 IEC are described in greater detail at www.iec.ch/standardsdev/publications.
- 149 This Part 4-10 is to be used in conjunction with the first edition of IEC 62841-1 (2014).
- 150 This Part 4-10 supplements or modifies the corresponding clauses in IEC 62841-1:2014, so
- as to convert it into the IEC Standard: Particular requirements for pole-mounted pruners.
- Where a particular subclause of IEC 62841-1:2014 is not mentioned in this Part 4-10, that
- subclause applies as far as relevant. Where this document states "addition", "modification" or
- "replacement", the relevant text in IEC 62841-1:2014 is to be adapted accordingly.
- 155 The following print types are used:
- 156 requirements: in roman type;
- 157 test specifications: in italic type;
- 158 notes: in small roman type.
- 159 The terms defined in Clause 3 are printed in **bold typeface**.
- 160 Subclauses, notes, tables and figures which are additional to those in Part 1, except as
- described for Annex K below, are numbered starting from 101.
- 162 Subclauses, notes, tables and figures in Annex K which are additional to those in the main
- body of this document are numbered starting from 301.
- 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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- 167 The committee has decided that the contents of this document will remain unchanged until the
- stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to
- the specific document. At this date, the document will be
- 170 reconfirmed,
- 171 withdrawn,
- replaced by a revised edition, or
- 173 amended.

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- 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
- 177 which to make products in accordance with the new requirements and to equip themselves for conducting new or
- 178 revised tests.
- 179 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.

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183	INTRODUCTION
84 85 86	The International Electrotechnical Commission (IEC) draws attention to the fact that it is claimed that compliance with this document may involve the use of patents concerning prevention of inadvertent starting given in Subclause 21.18.101.
187	IEC takes no position concerning the evidence, validity and scope of this patent right.
88 89 90	The holders of these patent rights have assured the IEC that they are willing to negotiate licences under reasonable and non-discriminatory terms and conditions with applicants throughout the world. In this respect, the statements of the holders of these patent rights are registered with IEC. Information may be obtained from:
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195 196 197	Husqvarna AB SE-561 82 Huskvarna Sweden
198 199 200	Robert Bosch GmbH Postfach 30 02 20 D-70442 Stuttgart, Germany
201 202 203	Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights other than those identified above. IEC shall not be held responsible for identifying any or all such patent rights.
204 205 206	ISO (www.iso.org/patents) and IEC (http://patents.iec.ch) maintain on-line data bases of patents relevant to their standards. Users are encouraged to consult the data bases for the most up to date information concerning patents.
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209 210 211	ELECTRIC MOTOR-OPERATED HAND-HELD TOOLS, TRANSPORTABLE TOOLS AND LAWN AND GARDEN MACHINERY – SAFETY –
212 213 214 215 216	Part 4-10: Particular requirements for pole-mounted pruners
217	1 Scope
218	IEC 62841-1:2014, Clause 1 is applicable, except as follows:
219	Addition:
220 221 222 223	This document applies to hand-held pole-mounted pruners which are designed for use by one operator for cutting tree branches with a cutting device and a fixed or detachable elongated construction such that the cutting device is distanced from the handles or grasping surfaces during use.
224	The cutting device of pole-mounted pruners may be
225	a saw chain; or
226	 a reciprocating saw blade.
227	This document does not apply to
228	 chain saws as covered by IEC 62841-4-1; or
229	 chain saws for tree service as covered by IEC 62841-4-9; or
230 231	 hedge trimmers, including extended-reach hedge trimmers, as covered by IEC 62841-4-2; or
232	78037b31905c/osist-pren-iec-62841-4-10-2023 – brush saws as covered in IEC 62841-4-4; or
233	 scissors-type pruners; or
234	 machines designed for use with a circular saw blade.
235	NOTE 101 Scissors-type pruners will be covered by a future part of IEC 62841-4.
236 237	NOTE 102 In Europe (EN IEC 62841-4-10) this document does not apply to pole-mounted pruners equipped with integral batteries .
238	2 Normative references
239	IEC 62841-1:2014, Clause 2 is applicable, except as follows:
240	Addition:
241 242	IEC 60664-3:2016, Insulation coordination for equipment within low-voltage systems – Part 3: Use of coating, potting or moulding for protection against pollution
243 244	IEC 60664-4:2005, Insulation coordination for equipment within low-voltage systems – Part 4: Consideration of high-frequency voltage stress
245 246	IEC 62841-1:2014, Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements
247	ISO 354:2003 Acquistics — Measurement of sound absorption in a reverberation room

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- 248 ISO 11684:1995, Tractors, machinery for agriculture and forestry, powered lawn and garden
- 249 equipment Safety signs and hazard pictorials General principles
- 250 ISO 22867:2021, Forestry and gardening machinery Vibration test code for portable hand-
- 251 held machines with internal combustion engine Vibration at the handles
- 252 ISO 22868:2021, Forestry and gardening machinery Noise test code for portable hand-held
- 253 machines with internal combustion engine Engineering method (Grade 2 accuracy)
- 254 Replacement:
- 255 ISO 3744:2010, Acoustics, Determination of sound power levels and sound energy levels of
- 256 noise sources using sound pressure. Engineering methods for an essentially free field over a
- 257 reflecting plane

3 Terms and definitions

- 259 IEC 62841-1:2014, Clause 3 is applicable, except as follows:
- 260 3.101

- 261 cutting device
- 262 assembly of saw chain and a quide bar or one or more reciprocating saw blades together
- with any supporting part, which perform the cutting action
- Note 101 to entry: See Figure 101 and Figure 102.
- 265 **3.102**
- 266 drive sprocket
- 267 chain drive wheel with teeth
 - <u>05151 pren 120 02041-4-10.2023</u>
- **3.103** https://standards.iteh.ai/catalog/standards/sist/69144832-7975-4d54
- 269 front handle
- 270 grasping surface located on the shaft or support handle located towards the front of the
- 271 machine
- Note 101 to entry: See Figure 101.
- 273 **3.104**
- 274 guide bar
- attachment that supports and guides the saw chain
- 276 3.105
- 277 maximum speed
- 278 highest steady-state cutting device speed attainable under all conditions of normal use,
- including no-load, when adjusted in accordance with the manufacturer's specifications and/or
- 280 instructions
- Note 101 to entry: The steady-state **cutting device** speed excludes transients such as overshoot that may occur
- 282 before attaining a steady-state condition.
- 283 3.106
- 284 operator presence sensor
- device to detect the presence of an operator's hand
- 286 3.107
- 287 pole-mounted pruner
- 288 hand-held machine of an elongated construction, with or without length adjustment and fitted
- 289 with a cutting device, intended to allow the operator to cut off branches of standing trees
- 290 from a distance
- 291 Note 101 to entry: See Figure 101 for an example of a pole-mounted pruner with a saw chain cutting device
- within the scope of this document.

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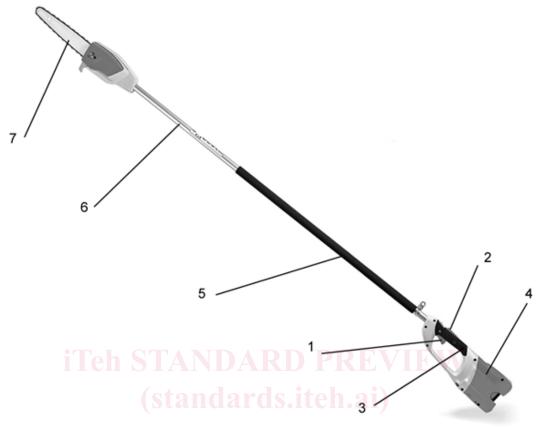
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294	rear handle
295	support handle located towards the rear of the machine
296	Note 101 to entry: See Figure 101.
297	3.109
298	saw chain
299	attachment serving as a cutting tool, consisting of drive links and cutters
300	Note 101 to entry: See Figure 103.
301	3.110
302	shaft
303	fixed or extendable element of a pole-mounted pruner that distances the cutting device
304 305	Note 101 to entry: Examples of extendable shaft elements include telescoping elements or the addition of shaft extensions.
306	

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308 309 Key

310 power switch operator presence sensor

311

rear handle 312

power unit/battery location 313

front handle/grasping surface 314

315 pole/shaft

316 cutting device

Figure 101 - Pole-mounted pruner nomenclature

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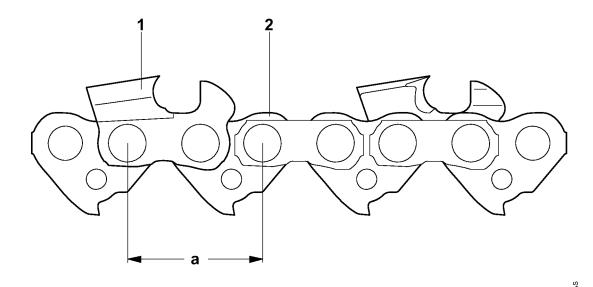
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Figure 102 - Example of a reciprocating saw blade



323 **Key**

322

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339

Key
1 cutter iTeh STANDARD PREVIEW

325 2 drive link

326 a distance between drive links

a distance between drive links

Figure 103 - Saw chain drive link spacing

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4 General requirements 531905c/osist-pren-iec-62841-4-10-2023

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

5 General conditions for the tests

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

332 **5.8** *Addition*:

If different **cutting devices** can be mounted on the **pole–mounted pruner** in accordance with 8.14.2 a) and 8.14.2 b), the **cutting devices** are regarded as **attachments**.

5.15 Addition:

- For tests carried out at any percentage of **rated input** or **rated current**, except for no-load, the **cutting device** may be removed and the **pole-mounted pruner** loaded by means of a
- 338 brake.

5.17 Addition:

- 340 The mass of the machine includes the heaviest cutting device in accordance with
- 8.14.2 a) 103) as well as the lubrication tank, if any, filled to the maximum specified level, but
- excludes the **cutting device** cover and shoulder harness, if any.
- 5.101 For tests that are performed at maximum speed and no-load, the manufacturer may

need to provide special hardware and/or software.

- 345 **5.102** The tests are carried out on the machine as supplied. However, a machine
- 346 constructed as a single machine but supplied in a number of units is tested after assembly in
- 347 accordance with 8.14.2.
- 348 **5.103** Unless otherwise specified, for Clauses 19 and 21, machines are tested in each
- operating configuration as described in 8.14.2.

350 6 Radiation, toxicity and similar hazards

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

352 7 Classification

- 353 IEC 62841-1:2014, Clause 7 is applicable, except as follows:
- 354 7.1 Replacement:
- 355 Machines shall be of one of the following classes with respect to protection against electric
- 356 shock:

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class II tool (machine), class III tool (machine)

8 Marking and instructions ARD PREVIEW

- 359 IEC 62841-1:2014, Clause 8 is applicable, except as follows:
- 360 **8.2** Addition:

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- Pole-mounted pruners shall be marked with safety information which shall be written in one of the official languages of the country in which the machine is to be sold or marked with the appropriate symbol:
- "Wear head protection" or a relevant safety sign of ISO 7010;
- "Wear eye protection" or a relevant safety sign of ISO 7010 or one of the product safety
 labels specified in Figure AA.1;
- "Wear ear protection", or a relevant safety sign of ISO 7010 or the product safety label specified in Figure AA.2. This marking may be omitted if the measured A-weighted emission sound pressure level at the operator position determined in accordance with Annex I, does not exceed 85 dB(A).
- A combination of ISO safety signs, such as eye, ear and head protection, is allowed. In addition, a combination of product safety labels as specified in Figure AA.3 and Figure AA,4 is
- 373 allowed.
- "Wear hand protection" or a relevant safety sign of ISO 7010;
- 375 "Wear slip-resistant footwear" or the product safety label specified in Figure AA.5;
- "DANGER Keep sufficient distance away from electrical power lines" or the safety sign
 C.2.30 of ISO 11684:1995 or the product safety label specified in Figure AA.6;
- 378 "WARNING Keep bystanders away" or one of the product safety labels specified in Figure AA.7;
- For all **pole-mounted pruners** with a degree of protection of less than IPX4:
- "Do not expose to rain"; or the product safety label specified in Figure AA.8;
- 382 For mains supplied machines:

- 383 − "⚠WARNING − Remove plug from the mains immediately if the cable is damaged or cut" 384 or the product safety label specified in Figure AA.9.
- 385 **8.3** Addition:
- Pole-mounted pruners permitted to be operated with a saw chain in accordance with
- 8.14.2 a) 103) shall be marked with an identification of the direction of rotation of the saw
- chain by a legible and durable mark that is visible when fitting the saw chain. This may be
- located under the **drive sprocket** cover, if any.
- 390 **8.12** Replacement of the first paragraph:
- Markings required by the standard shall be legible and durable. Signs shall be in contrast
- such as colour, texture, or relief, to their background such that the information or instructions
- 393 provided by the signs are clearly legible when viewed with normal vision from a distance of
- (500 ± 50) mm. Signs need not be in accordance with the colour requirements of ISO 3864-2.
- If markings are embossed, stamped, etched, engraved or moulded, contrasting colours are not required.
- 397 **8.14.1** Addition:
- 398 The additional safety instructions as specified in 8.14.1.101, applicable to the supplied
- 399 cutting device, shall be given. This part may be printed separately from the "General
- 400 Machine Safety Warnings".
- 401 NOTE 101 "General Machine Safety Warnings" are referred to as "General Power Tool Safety Warnings" in 402 IEC 62841-1:2014.
- 8.14.1.101 Safety instructions for pole-mounted pruners
 - <u>oSIST pren IEC 62841-4-10:2023</u>
- 404 Pole-mounted pruner safety warnings:
- a) Keep all parts of the body away from the saw chain or saw blade when the polemounted pruner is operating. Before you start the pole-mounted pruner, make sure
 the saw chain or saw blade is not contacting anything. A moment of inattention while
 operating the pole-mounted pruner may result in injury to yourself or others.
- NOTE 101 It is possible to replace the text "saw chain or saw blade" in item a) above with "saw chain" or "saw blade", depending on the permitted **cutting device(s)** in accordance with 8.14.2 a) 103).
- b) Always use two hands when operating the pole-mounted pruner. Hold the pole-mounted pruner with both hands to avoid loss of control.
- c) To reduce the risk of electrocution, never use the pole-mounted pruner near any electrical power lines. Contact with or use near power lines may cause serious injury or electric shock resulting in death.
- d) Hold the pole-mounted pruner by insulated gripping surfaces only, because the saw chain or saw blade may contact hidden wiring or its own cord. Saw chains or saw blades contacting a "live" wire may make exposed metal parts of the pole-mounted pruner "live" and could give the operator an electric shock.
- NOTE 102 It is possible to replace the text "saw chain or saw blade" in item d) above with "saw chain" or saw blade", depending on the permitted **cutting device(s)** in accordance with 8.14.2 a) 103).
- e) Wear eye and ear protection. Further protective equipment for hands and slipresistant footwear is recommended. Adequate protective equipment will reduce the risk of personal injury.
- NOTE 103 The ear protection portion of the warning can be omitted if the measured A-weighted emission sound pressure level at the operator's ear in accordance with Annex I does not exceed 85 dB(A).
- f) Always use head protection when operating the pole-mounted pruner overhead.
 Falling debris can result in serious personal injury.