



BSI Standards Publication

Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery — Safety

Part 4-1: Particular requirements for chain saws

National foreword

This British Standard is the UK implementation of EN 62841-4-1:2020. It is derived from IEC 62841-4-1:2017. It supersedes BS EN 60745-2-13:2009+A1:2011, which will be withdrawn on 13 March 2024.

The CENELEC common modifications have been implemented at the appropriate places in the text. The start and finish of each common modification is indicated in the text by tags **[C]** **[C]**.

The UK participation in its preparation was entrusted to Technical Committee CPL/116, Safety of motor-operated electric tools.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Compliance with a British Standard cannot confer immunity from legal obligations.

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Amendments/corrigenda issued since publication

Date	Text affected
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 62841-4-1

March 2020

ICS 25.140.20

Supersedes EN 60745-2-13:2009 and all of its
amendments and corrigenda (if any)

English Version

**Electric Motor-Operated Hand-Held Tools, Transportable Tools
and Lawn and Garden Machinery - Safety - Part 4-1: Particular
requirements for chain saws
(IEC 62841-4-1:2017 , modified)**

Outils électroportatifs à moteur, outils portables et machines
pour jardins et pelouses - Sécurité - Partie 4-1: Exigences
particulières pour les scies à chaîne
(IEC 62841-4-1:2017 , modifiée)

Elektrische motorbetriebene handgeführte Werkzeuge,
transportable Werkzeuge und Rasen- und
Gartenmaschinen - Sicherheit - Teil 4-1: Besondere
Anforderungen für Kettensägen
(IEC 62841-4-1:2017 , modifiziert)

This European Standard was approved by CENELEC on 2017-11-15. 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.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



European Committee for Electrotechnical Standardization
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 116/339/FDIS, future edition 1 of IEC 62841-4-1, 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 62841-4-1:2020.

A draft amendment, which covers common modifications to IEC 62841-4-1 (116/339/FDIS), was prepared by CLC/TC 116 "Safety of motor-operated electric tools" and approved by CENELEC.

The following dates are fixed:

- latest date by which this document has (dop) 2020-09-13
to be implemented at national level by
publication of an identical national
standard or by endorsement
- latest date by which the national (dow) 2024-03-13
standards conflicting with this document
have to be withdrawn

EN 62841-4-1:2020 supersedes EN 60745-2-13:2009 + A1:2010.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This European Standard is divided into four parts:

- Part 1: General requirements which are common to most hand-held electric motor operated tools (for the purpose of this standard referred to simply as tools) which could come within the scope of this standard;
- Part 2, 3 or 4: Requirements for particular types of tools which either supplement or modify the requirements given in Part 1 to account for the particular hazards and characteristics of these specific tools.

This Part 4-1 is to be used in conjunction with EN 62841-1:2015.

This Part 4-1 supplements or modifies the corresponding clauses in EN 62841-1:2015, so as to convert it into the European Standard: Particular requirements for chain saws.

Where a particular subclause of Part 1 is not mentioned in this Part 4-1, that subclause applies as far as relevant. When 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 smaller roman type.

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

Subclauses, notes, tables and figures which are additional to those in Part 1 are numbered starting from 101.

Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62841-4-1:2017 are prefixed "Z".

This European Standard follows the overall requirements of EN ISO 12100.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s), see informative Annex ZZ, which is an integral part of this document.

Compliance with the clauses of Part 1 together with this Part 4-1 provides one means of conforming with the essential health and safety requirements of the Directive concerned.

Endorsement notice

The text of the International Standard IEC 62841-4-1:2017 was approved by CENELEC as a European Standard with agreed common modifications.

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

This annex from EN 62841-1:2015 is applicable with the following addition:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61672-1	-	Electroacoustics – Sound level meters – Part 1: Specifications	EN 61672-1	2013
ISO 354	2003	Acoustics – Measurement of sound absorption in a reverberation room	EN ISO 354	2003
ISO 3744	2010	Acoustics – Determination of sound power levels and sound energy levels of noise sources using sound pressure – Engineering methods for an essentially free field over a reflecting plane	EN ISO 3744	2010
ISO 6533	2012	Forestry machinery – Portable chain-saw front hand-guard – Dimensions and clearances	-	-
ISO 6534	2007	Forestry machinery – Portable chain-saw hand-guards – Mechanical strength	-	-
ISO 7914	2002	Forestry machinery – Portable chain saws – Minimum handle clearance and sizes	-	-
ISO 7915	1991	Forestry machinery – Portable chain-saws – Determination of handle strength	-	-
ISO 9518	-	Forestry machinery – Portable chain-saws – Kickback test	-	-
ISO 10726	1992	Portable chain-saws – Chain catcher – Dimensions and mechanical strength	-	-
ISO 11681-2	2011	Machinery for forestry – Portable chain-saw safety requirements and testing – Part 2: Chain-saws for tree service	EN ISO 11681-2	2011
ISO 13772	2018	Forestry machinery – Portable chain saws - Non-manually actuated chain brake performance	-	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO 17080	2005	Manually portable agricultural and forestry machines and powered lawn and garden equipment – Design principles for single-panel product safety labels	-	-
ISO 22868	2011	Forestry and gardening machinery – Noise test code for portable hand-held machines with internal combustion engine – Engineering method (Grade 2 accuracy)	EN ISO 22868	2011

Annex ZZ

(informative)

Relationship between this European Standard and the essential requirements of Directive 2006/42/EC [2006 OJ L157] aimed to be covered

This European Standard has been prepared under a Commission's standardisation request M/396 to provide one voluntary means of conforming to essential requirements of Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC.

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZZ.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive, and associated EFTA regulations.

Table ZZ.1 – Correspondence between this European Standard and Annex I of Directive 2006/42/EC

Essential Requirements of Directive 2006/42/EC Clause numbers of Annex I	Clause(s) / sub-clause(s) of this EN	Remarks / Notes: Description of requirements
1.1.2 (Principles of safety integration)	4	
1.1.3 (Materials and products)	5, 6.1, 21.6, K/L.5, L.21	
1.1.5 (Design of machinery to facilitate its handling)	19.4, 19.101, 19.108, 19.111	
1.1.6 (Ergonomics)	5, 19.5, 19.111, 21.18, K/L.5, K.21.301, L.21.301	
1.2.1 (Safety and reliability of control systems)	5, 18.6, 18.8, 23.1.6, 23.1.10, 23.1.11, 23.3, K/L.5, K.18.6, K/L.18.8, K/L.23.1.10, K.23.1.201, L.18	
1.2.2 (Control devices)	5, 8.5, 8.9, 8.10, 8.11, 21.1, 21.2, 21.4, 21.17, 21.18, K/L.5, K.21.17.1.2, L.21	
1.2.3 (Starting)	5, 21.17, K/L.5, K.21.17.1.2, L.21	
1.2.4.1 (Normal stop)	5, 21.17, K/L.5, K.21.17.1.2, L.21	
1.2.6 (Failure of the power supply)	5, 21.18.1.Z1, 21.18.2.1, 21.18.101, 23.3, K/L.5, L.21	
1.3.2 (Risk of break-up during operation)	5, 8.14.2 c), 13.1, 14.4, 17, 19.109, 19.110, 20, 21.23, 24.11, 24.12, 24.13, 27, K/L.5, K/L.13.1, K/L.17, K/L.20, K/L.24.201, K.27.1, L.21	