



SLOVENSKI STANDARD
SIST EN 60745-2-13:2008
01-januar-2008

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SIST EN 50144-2-13:2002

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Hand-held motor-operated electric tools - Safety - Part 2-13: Particular requirements for chain saws

Handgeführte motorbetriebene Elektrowerkzeuge - Sicherheit - Teil 2-13: Besondere Anforderungen für Kettensägen

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Outils électroportatifs a moteur - Sécurité - Partie 2-13: Regles particulieres pour les scies a chaîne

[SIST EN 60745-2-13:2008](https://standards.iteh.ai/catalog/standards/sist/01ba7835-cd24-4660-a172-86528b203585/sist-en-60745-2-13-2008)

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Ta slovenski standard je istoveten z: EN 60745-2-13:2007

ICS:

25.140.20	Ò ^ \ d ã } æ [å æ	Electric tools
65.060.80	Gozdarska oprema	Forestry equipment

SIST EN 60745-2-13:2008 **en,fr,de**

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English version

**Hand-held motor-operated electric tools -
Safety -
Part 2-13: Particular requirements for chain saws
(IEC 60745-2-13:2006, modified)**

Outils électroportatifs à moteur -
Sécurité -
Partie 2-13: Règles particulières
pour les scies à chaîne
(CEI 60745-2-13:2006, modifiée)

Handgeführte motorbetriebene
Elektrowerkzeuge -
Sicherheit -
Teil 2-13: Besondere Anforderungen
für Kettensägen
(IEC 60745-2-13:2006, modifiziert)

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This European Standard was approved by CENELEC on 2007-03-01. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of the International Standard IEC 60745-2-13:2006, prepared by SC 61F, Safety of hand-held motor-operated electric tools, of IEC TC 61, Safety of household and similar electrical appliances, together with the common modifications prepared by the Technical Committee CENELEC TC 61F, Safety of hand-held and transportable motor-operated electric tools, was submitted to the CENELEC Unique Acceptance Procedure and was approved by CENELEC as EN 60745-2-13 on 2007-03-01.

This European Standard supersedes EN 50144-2-13:2002.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2008-03-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2010-03-01

This standard is divided into two 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: 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 European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and covers essential requirements of EC Directive 98/37/EC (Machinery Directive), amended by Directive 98/79/EC. See Annex ZZ.

Compliance with the clauses of Part 1 together with this Part 2 provides one means of conforming with the essential health and safety requirements of the Directive concerned.

CEN/TC 144 is producing standards for non-electric chain saws (EN 608).

Warning: Other requirements and other EC Directives can be applicable to the products falling within the scope of this standard.

This standard follows the overall requirements of EN ISO 12100-1 and EN ISO 12100-2.

This Part 2-13 is to be used in conjunction with EN 60745-1:2006. When this standard states "addition", "modification" or "replacement", the relevant text in Part 1 is to be adapted accordingly.

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

Subclauses, notes, tables and figures which are additional to those in IEC 60745-2-13:2006 are prefixed “Z”.

Annexes ZA and ZZ have been added by CENELEC.

NOTE In this standard the following print types are used:

- Requirements proper;
- *Test specifications*;
- Explanatory matter.

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Endorsement notice

The text of the International Standard IEC 60745-213:2006 was approved by CENELEC as a European Standard with agreed common modifications as given below.

COMMON MODIFICATIONS

1 Scope

Add:

The chain saws covered by this standard are designed only to be operated with the right hand on the rear handle and the left hand on the front handle.

2 Normative references

Replace the reference to ISO 3864-3 by:

ISO 3864-3:2006, *Graphical symbols – Safety colours and safety signs – Part 3: Design principles for graphical symbols for use in safety signs*

Add:

ISO 22868:2005, *Forestry machines – Noise test code for portable hand-held machines with an internal combustion engine - Engineering method (Grade 2 accuracy)*

6 Void

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Replace by:

6 Environmental requirements

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

6.1.2.2 Replacement:

The sound power level shall be measured according to EN ISO 3744, where the acoustic environment, instrumentation, quantities to be measured, quantities to be determined, and the measurement procedure are specified.

The sound power level shall be given as A-weighted sound power level in dB reference 1 pW. The A-weighted sound pressure levels, from which the sound power is to be determined, shall be measured directly, and not calculated from frequency band data. Measurements shall be made in a free field over a reflecting plane.

The sound power level shall be determined according to Clause 5 of EN ISO 22868, with the test environment, measurement surface and six microphone positions specified there and in Clause 6 of EN ISO 22868.

The A-weighted sound power level, L_{WA} , shall be calculated, in accordance with 8.6 of EN ISO 3744, as follows:

$$L_{WA} = \overline{L_{pFA}} + 10 \lg \left(\frac{S}{S_0} \right), \text{ in dB} \quad (\text{Z101})$$

with \overline{L}_{pfA} determined from

$$\overline{L}_{pfA} = 10 \lg \left[\frac{1}{6} \sum_{i=1}^6 10^{0,1 L'_{pA,i}} \right] - K_{1A} - K_{2A}$$

where

\overline{L}_{pfA} is the A-weighted surface sound pressure level according to EN ISO 3744

$L'_{pA,i}$ A-weighted sound pressure level measured at the i-th microphone position, in decibels

K_{1A} background noise correction, A-weighted

K_{2A} environmental correction, A-weighted

S area of the measurement surface, in m²

$S_0 = 1 \text{ m}^2$

If the test environment meets the requirements of EN ISO 22868, then the environmental correction factor K_{2A} shall be considered as negligible.

For the hemispherical measurement surface, the area S of the measurement surface is calculated as follows:

$$S = 2\pi r^2, \text{ in m}^2. \quad (\text{Z102})$$

where r , the radius of the hemisphere, is 4 m as specified in Clause 5 of EN ISO 22868.

6.1.2.4 Modification:

The installation and mounting conditions shall be in accordance with A.1 and A.2 of EN ISO 22868, as far as applicable to electric chain saws.

The ambient conditions shall be as specified in 6.1 of EN ISO 22868.

6.1.2.5 Modification:

Chain saws are tested under the two operating conditions “idling” and “full load” in accordance with A.3.1 of EN ISO 22868.

“Idling” shall be operation at no-load, with maximum speed settings.

“Full load” shall be in accordance with A.3.3 of EN ISO 22868, with maximum speed settings.

Four consecutive tests for “idling” and four for “full load” shall be carried out, with each sound power level determined in accordance with the procedure stated in A.3.1 of EN ISO 22868. With L_{W1} and L_{W2} being the average sound power levels of the two different modes of operation defined above, the resulting sound power level L_{WA} is calculated by:

$$L_{WA} = 10 \lg \frac{1}{2} \left[10^{0,1L_{W1}} + 10^{0,1L_{W2}} \right]$$

6.2.4.2 Location of the measurement

Addition:

Figure Z101 shows the positions on the front handle and rear handle.

6.2.6.3 Operating conditions

Chain saws are tested under load observing the conditions shown in Table Z101.

Table Z101 – Test conditions

Material	Freshly felled softwood log of local timber, not frozen. Width of the log to be trimmed to 75 % of the usable cutting length of the guide bar
Orientation	Log to be rigidly clamped horizontally so that the centre line of the log is at 0,6 m from the ground
Tool bit	Saw chain to be as supplied or recommended by the manufacturer https://standards.iteh.ai/catalog/standards/sist/01ba7835-cd24-4660-a172-865281203585/iso-60745-2-13-2008
Feed force	Sufficient force, using the spiked bumper, to achieve rated input ± 10 %
Test cycle	Cutting across the width of the log in a part substantially free of knots

6.2.7.2 Declaration of the vibration emission value

Addition:

The vibration emission value a_h of the handle with the highest emission and the uncertainty K shall be declared.

8 Marking and instructions

8.12.1.1

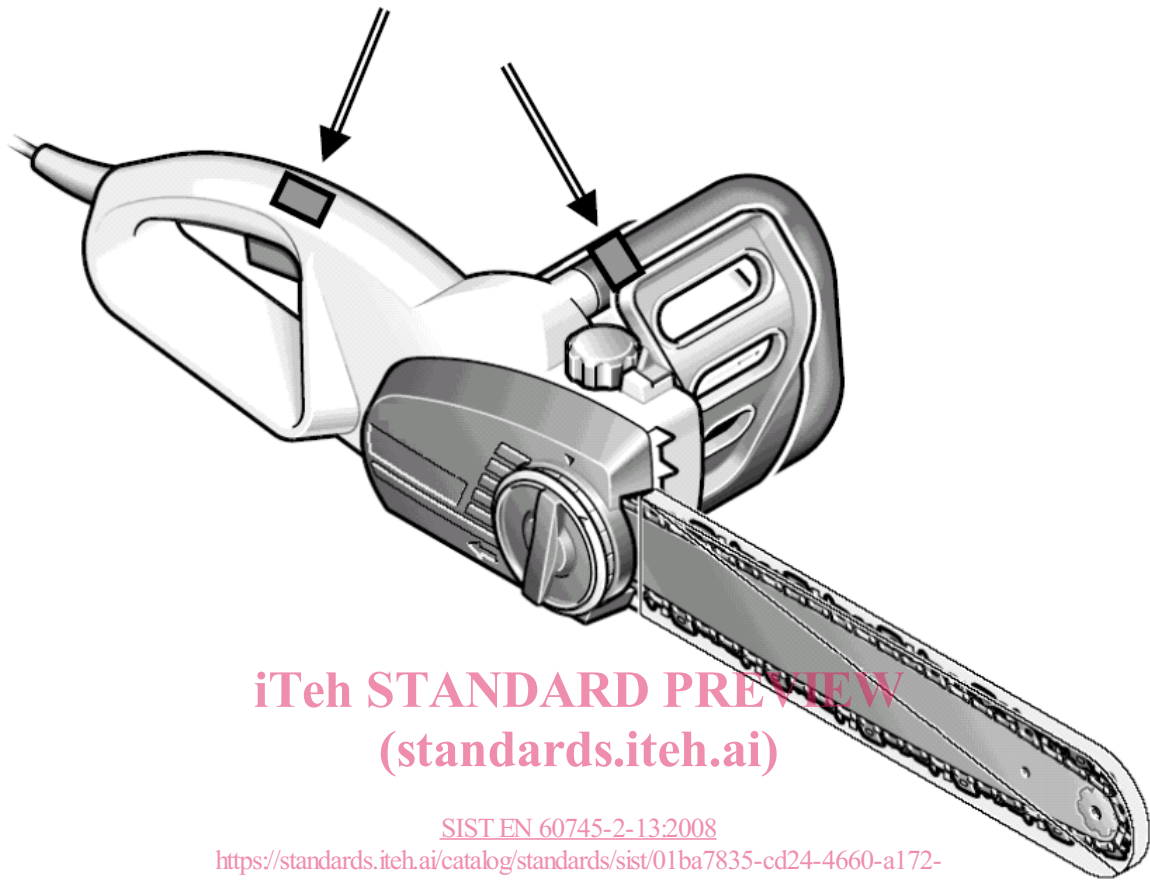
Remove the note after the 2nd indent.

21 Construction

Add the following subclause:

21.Z1 This subclause of Part 1 is not applicable.

Add the following new figure:



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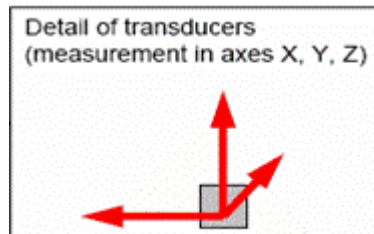


Figure Z101 - Position of transducers

Add the following annexes:

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO 3864-3	2006	Graphical symbols - Safety colours and safety signs - Part 3: Design principles for graphical symbols for use in safety signs	-	-
ISO 6533	2001	Forestry machinery - Portable chain-saw front hand-guard - Dimensions and clearances	-	-
ISO 6534	1992	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 8334	1985	Forestry machinery - Portable chain-saws - Determination of balance	-	-
ISO 9518	1998	Forestry machinery - Portable chain-saws - Kickback test	-	-
ISO 17026	1992	Portable chain saws - Chain catcher - Dimensions and mechanical strength	-	-
ISO 11681-2	1998	Machinery for forestry - Portable chain-saws - Safety requirements and testing - Part 2: Chain-saws for tree service	EN ISO 11681-2	1998
ISO 22868	2005	Forestry machines - Noise test code for portable hand-held machines with an internal combustion engine - Engineering method (Grade 2 accuracy)	EN ISO 22868	2005

Annex ZZ
(informative)

Coverage of Essential Requirements of EC Directives

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Compliance with this standard provides one means of conformity with the relevant essential requirements of the Directives concerned.

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NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC

60745-2-13

Deuxième édition
Second edition
2006-03

Outils électroportatifs à moteur –
Sécurité –

Partie 2-13:
Règles particulières pour les scies à chaîne

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Part 2-13:
Particular requirements for chain saws

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