



SLOVENSKI STANDARD

SIST EN 60745-2-8:2003

01-december-2003

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SIST EN 50144-2-8:1999

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Hand-held motor-operated electric tools - Safety - Part 2-8: Particular requirements for shears and nibblers

Handgeführte motorbetriebene Elektrowerkzeuge - Sicherheit - Teil 2-8: Besondere Anforderungen für Blechscheren und Nibbler

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Outils électroportatifs a moteur - Sécurité - Partie 2-8: Regles particulieres pour les cisailles a métaux et les grignoteuses

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Ta slovenski standard je istoveten z: EN 60745-2-8:2003

ICS:

25.120.10 Kovaški stroji. Stiskalnice. Forging equipment. Presses.
Škarje Shears

25.140.20 Elektrni orodila. Electric tools

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en

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EUROPEAN STANDARD

EN 60745-2-8

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2003

ICS 25.140.20; 25.140.30; 25.120.10

Supersedes EN 50144-2-8:1996

English version

**Hand-held motor-operated electric tools –
Safety
Part 2-8: Particular requirements for shears and nibblers
(IEC 60745-2-8:2003, modified)**

Outils électroportatifs à moteur –
Sécurité
Partie 2-8: Règles particulières pour
les cisailles à métaux et les grignoteuses
(CEI 60745-2-8:2003, modifiée)

Handgeführte motorbetriebene
Elektrowerkzeuge –
Sicherheit
Teil 2-8: Besondere Anforderungen für
Blechscheren und Nibbler
(IEC 60745-2-8:2003, modifiziert)

This European Standard was approved by CENELEC on 2003-02-01. 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Lithuania, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

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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 60745-2-8:2003, 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 formal vote and was approved by CENELEC as EN 60745-2-8 on 2003-02-01.

This European Standard supersedes EN 50144-2-8:1996.

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) 2004-02-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2006-02-01

Other standards referred to in this European standard are listed in Clause 2. Clause 2 lists the valid edition of those documents at the time of issue of this EN.

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 CEN and CENELEC by the European Commission and the European Free Trade Association and supports the essential health and safety requirements of the Machinery Directive.

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 255 is producing standards for non-electric shears and nibblers (EN 792-11).

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 292-1 and EN 292-2.

This Part 2-8 is to be used in conjunction with EN 60745-1:2003. When this standard states "addition", "modification" or "replacement", the relevant text in Part 1 is to be adapted accordingly.

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

Subclauses, tables and figures which are additional to those in IEC 60745-2-8 are prefixed "Z".

NOTE In this standard, the following print types are used:

- Requirements: in roman type;
- *Test specification: in italic type;*
- Notes: in smaller roman type.

Endorsement notice

The text of the International Standard IEC 60745-2-8:2003 was approved by CENELEC as a European Standard with agreed common modifications.

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HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS – SAFETY –

Part 2-8: Particular requirements for shears and nibblers

1 Scope

This clause of Part 1 is applicable except as follows:

1.1 *Addition:*

This standard applies to **shears** and **nibblers**.

2 Normative references

This clause of Part 1 is applicable.

3 Definitions

This clause of Part 1 is applicable except as follows:

3.101

shear

tool intended for shearing of metal sheets, plates and strips

3.102

nibbler

tool intended for punching of metal sheets, plates and strips

4 General requirements

This clause of Part 1 is applicable.

5 General conditions for the tests

This clause of Part 1 is applicable.


6 Environmental requirements

This clause of Part 1 is applicable except as follows:

6.1.2.4 *Modification:*

Shears and nibblers are suspended, the orientation of the tool to be as for cutting a horizontal sheet of metal.

6.1.2.5 *Modification:*

Shears and nibblers are tested at no-load. 

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6.2.2.3 Modification:

Measurements shall be made in the "Z" direction only.

6.2.2.4 Modification:

Shears and nibblers are tested at no-load, the tool being held as in normal use. **C**

7 Classification

This clause of Part 1 is applicable.

8 Marking and instructions

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

8.1 Addition:

In addition the tool shall have the following marking:

- maximum thickness, in millimetres, of sheet metal which can be cut.

The marking for the maximum thickness shall be related to steel having a tensile strength of 390 N/mm², unless otherwise indicated on the tool.

9 Protection against access to live parts

This clause of Part 1 is applicable.

10 Starting

This clause of Part 1 is applicable.

11 Input and current

This clause of Part 1 is applicable.

12 Heating

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

12.4 Replacement:

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The tool is operated at **rated input** or **rated current** for 30 min. The temperature rises are measured at the end of the 30 min.

13 Leakage current

This clause of Part 1 is applicable.

14 Moisture resistance

This clause of Part 1 is applicable.

15 Electric strength

This clause of Part 1 is applicable.

16 Overload protection of transformers and associated circuits

This clause of Part 1 is applicable.

17 Endurance

This clause of Part 1 is applicable.

18 Abnormal operation

This clause of Part 1 is applicable.

19 Mechanical hazards

This clause of Part 1 is applicable.

20 Mechanical strength

This clause of Part 1 is applicable.

21 Construction

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

21.21 This subclause of Part 1 is not applicable. ☐

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22 Internal wiring

This clause of Part 1 is applicable. [SIST EN 60745-2-8:2003
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23 Components

This clause of Part 1 is applicable.

24 Supply connection and external flexible cords

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

24.4 *Replacement of the first paragraph:*

Supply cords shall be not lighter than heavy polychloroprene sheathed flexible cable (60245 IEC 66).

25 Terminals for external conductors

This clause of Part 1 is applicable.

26 Provision for earthing

This clause of Part 1 is applicable.

27 Screws and connections

This clause of Part 1 is applicable.

28 Creepage distances, clearances and distances through insulation

This clause of Part 1 is applicable.

29 Resistance to heat, fire and tracking

This clause of Part 1 is applicable.

30 Resistance to rusting

This clause of Part 1 is applicable.

31 Radiation, toxicity and similar hazards

This clause of Part 1 is applicable.

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