



SLOVENSKI STANDARD SIST EN 50260-2-2:2002

01-september-2002

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Safety of hand-held battery-powered motor-operated tools and battery packs -- Part 2-2:
Particular requirements for screwdrivers and impact wrenches

Sicherheit für handgeführte akkubetriebene Elektrowerkzeuge und Akkublöcke -- Teil 2-
2: Besondere Anforderungen für Schrauber und Schlagschrauber

Sécurité des outils électroportatifs alimentés par batteries et des blocs de batteries --
Partie 2-2: Règles particulières pour les visseuses et visseuses à percussion

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Ta slovenski standard je istoveten z: EN 50260-2-2:2002

ICS:

25.140.20	Ò\^ dā } æ [ā bæ	Electric tools
29.220.20	Sā ā • \ ā ^ ~ } ā æ } ā ^ } ā æ à æ ^ ā æ	Acid secondary cells and batteries

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EUROPEAN STANDARD

EN 50260-2-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2002

ICS 25.140.20

English version

**Safety of hand-held battery-powered motor-operated tools
and battery packs**
Part 2-2: Particular requirements for screwdrivers and impact wrenches

Sécurité des outils électroportatifs
alimentés par batteries
et des blocs de batteries
Partie 2-2: Règles particulières
pour les visseuses
et visseuses à percussion

Sicherheit für handgeführte
akkubetriebene Elektrowerkzeuge
und Akkublöcke
Teil 2-2: Besondere Anforderungen
für Schrauber und Schlagschrauber

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This European Standard was approved by CENELEC on 2000-08-01. 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, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and 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

This European Standard has been prepared by the Technical Committee CENELEC TC 61F, Hand-held and transportable electric motor-operated tools.

A first draft was submitted to the Unique Acceptance Procedure in August 1996 with positive result. A second draft incorporating the editorial comments received during the UAP and the modifications necessary to incorporate the mechanical requirements which have been agreed for hand-held tools was submitted to the formal vote in November April 1999 and was approved by CENELEC as EN 50260-2-2 on 2000-08-01.

The following dates were fixed:

- latest date by the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2003-03-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2005-03-01

This European Standard is divided into two parts:

Part 1: General requirements which are common to most hand-held battery powered motor operated tools (for the purpose of this European Standard referred to simply as tools).

Part 2: Requirements for particular types of tool 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 (M/083) given to CEN and CENELEC by the European Commission and the European Free Trade Association and supports the essential safety requirements of the Machinery Directive.

Compliance with the clauses of Part 1 of this European Standard together with this Part 2 provides one means of conforming with the specified essential requirements of the Directive concerned.

For noise and vibration, this European Standard covers the requirements for their measurement, the provision of information arising from these measurements and the provision of information about the personal protective equipment required. Specific requirements for the reduction of the risk arising from noise and vibration through design of the tool are not given as this reflects the current state of the art. As with any standard, technical progress will be kept under review so that any developments can be taken into account.

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

Hand held motor-operated tools are covered by the EN 50144 series.

In order to be consistent with the EN 50144 series, the same order of clauses has been kept; the missing clauses are considered void.

CEN/TC 255 is producing standards for non-electric screwdrivers and impact wrenches (EN 792-6).

This European Standard follows the overall requirements of EN 292-1 and EN 292-2.

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

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

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

Contents

1	Scope	4
2	Definitions.....	4
3	General requirements.....	4
4	General conditions for the tests	4
5	Rating	4
6	(void)	
7	Marking and information for use.....	4
8	Protection against electric shock.....	4
9	(void)	
10	(void)	
11	(void)	
12	(void)	
13	Environmental requirements.....	5
14	Moisture resistance	5
15	Insulation resistance and electric strength.....	5
16	(void) SIST EN 50260-2-2:2002	
17	Abnormal operation	5
18	Mechanical hazards	5
19	Mechanical strength	5
20	Construction	6
21	Components	6
22	Internal wiring	6
23	(void)	
24	(void)	
25	(void)	
26	Screws and connections	6
27	Creepage distances, clearances and distances through insulation.....	6
28	Resistance to heat, fire and tracking	6
29	Resistance to rusting.....	6
	Figures.....	7

1 Scope

This clause of Part 1 is applicable except as follows:

Addition:

This European Standard applies to screwdrivers and impact wrenches.

This European Standard does not give requirements for the design of the tool to reduce the risks arising from noise and vibration.

2 Definitions

This clause of Part 1 is applicable.

3 General requirements

This clause of Part 1 is applicable.

4 General conditions for the tests

This clause of Part 1 is applicable.

5 Rating

This clause of Part 1 is applicable.

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6 Void

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7 Marking and information for use

This clause of Part 1 is applicable.

8 Protection against electric shock

This clause of Part 1 is applicable.

9 Void

10 Void

11 Void

12 Void

13 Environmental requirements

This clause of Part 1 is applicable except as follows:

13.1 Void

13.2.2.4 Addition:

For screwdrivers the bit holder shall be horizontal.

13.2.2.5 Replacement of paragraphs 3 and 4:

Screwdrivers are tested at no-load.

Impact wrenches are tested under load using the loading device shown in Figure 101 which is supported on resilient material and mounted on the bench. The details of the loading device are shown in Figure 102.

For the test, the speed is adjusted to 45 revolutions/min \pm 5 revolutions/min by means of the nut number 12 on the loading device. The feed force should be just sufficient to obtain stable operation.

Each test shall be no more than 10 seconds duration.

13.3.3 Replacement of paragraph 1:

Measurements shall be made in the direction of the reaction torque.

13.3.6 Replacement of paragraph 1:

Screwdrivers and impact wrenches are tested under the conditions specified in 13.2.2.4 and 13.2.2.5.

Paragraph 3 is not applicable.

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14 Moisture resistance

This clause of Part 1 is applicable.

15 Insulation resistance and electric strength

This clause of Part 1 is applicable.

16 Void

17 Abnormal operation

This clause of Part 1 is applicable.

18 Mechanical hazards

This clause of Part 1 is applicable.

19 Mechanical strength

This clause of Part 1 is applicable.

20 Construction

This clause of Part 1 is applicable.

21 Components

This clause of Part 1 is applicable.

22 Internal wiring

This clause of Part 1 is applicable.

23 Void**24 Void****25 Void****26 Screws and connections**

This clause of Part 1 is applicable.

27 Creepage distances, clearances and distances through insulation

This clause of Part 1 is applicable.

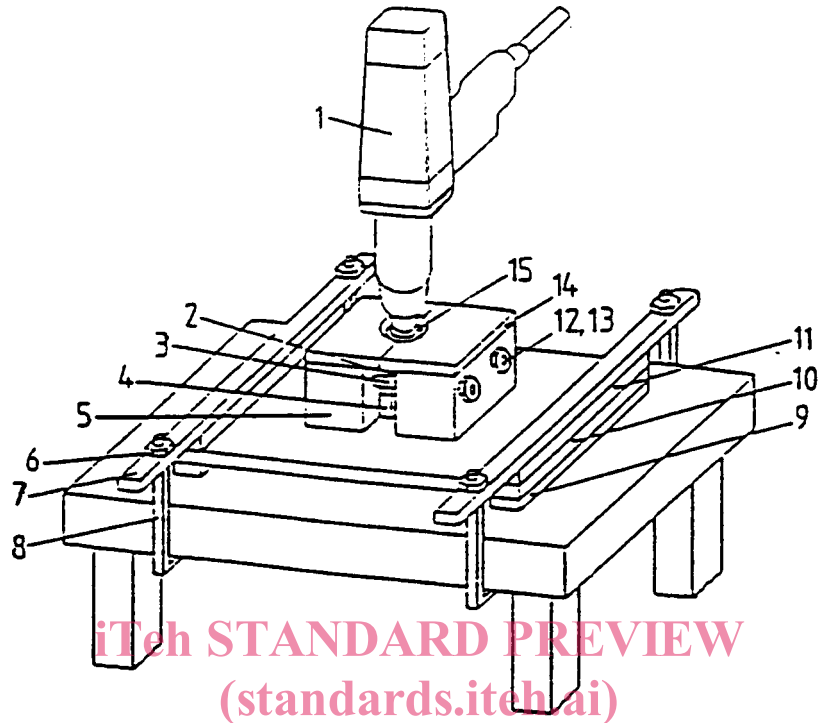
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28 Resistance to heat, fire and tracking

This clause of Part 1 is applicable.

29 Resistance to rusting

This clause of Part 1 is applicable.



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Position Nr.	Pieces	Description	Remarks
1	1	impact wrench	
2	2	brake shoe	
3	2	bolt	M 10
4	2	pressure plate	
5	2	clamping jaw	
6	4	nut	M 10
7	2	clamping rail	
8	4	clamp	M 10
9	2	resilient material	
10	1	carrier base	(520 × 520 × 20) mm
11	2	resilient material	
12	8	nut	M 10
13	4	washer	
14	2	Pressure plate	
15	1	Brake element	

Figure 101 – Loading device