



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 3883.311-2019

**Safety of motor-operated hand-held, transportable and garden
tools -- Part 311: Particular requirements for transportable
cut-off machines**

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Preface

Part 3 of "Safety of Handheld, Portable Power Tools and Garden Tools" Portable power tools currently consists of the following 2 parts

composition.

---GB/T 3883.306-2017 The safety of hand-held and portable electric tools and garden tools-Part 3.Portable liquid carrying

Special requirements for source diamond drills;

Special requirements for wood cutting machines.

This part is part 311 of GB/T 3883.

This section was drafted in accordance with the rules given in GB/T 1.1-2009.

This part replaces GB/T 13960.11-2000 "Safety of portable electric tools Part 2.Special requirements for profile cutting machines",

Compared with GB/T 13960.11-2000, the main technical changes are as follows.

---The scope of application is to increase cutting objects such as concrete and masonry, increase the use of diamond cutting wheels, and clarify the type and line of grinding wheels used

Speed and range, increase the non-applicable range of this part (see Chapter 1);

--- The term "inner flange", "consolidated enhanced grinding wheel", "cutting device", "D", "diamond cutting wheel", "grid", "outer flange" and "stop

Rest position"; modify the terms "profile cutting machine" and "grinding wheel guard"; delete the terms "spindle", "clamping plate assembly" and "straight edge groove clamp"

Squeeze plate" and "workpiece fixture" (see Chapter 3, Chapter 2 of the.2000 edition);

---Add the description of the parts that should be included in the tool quality in the general conditions of the test (see Chapter 5);

--- Abnormal operation modify Table 4 in Part 1 (see Chapter 18);

---Mechanical hazards 19.6 increase the prevention of overspeed test; 19.7 increase the prevention of tipping test and facilitate the fixing of tools; 19.101.1

Increase the general requirements for grinding wheel protection; modify the original 18.1.103, 18.1.104 and 20.17 to 19.101.2, that is, to improve the grinding wheel guard

Seek; modify the original 18.104 to 19.101.3, and improve the protection of the grinding wheel under the table; modify the original 18.1.105 to 19.102, which is complete

Improve the deflection of spark splash; modify the original 18.101 to 19.103, that is, improve the fixation of the workpiece; increase the installation of the 19.104 accessory; repair

Change the original 18.102 to 19.105.1 and 19.105.2, that is, improve the general requirements and minimum dimensions of the flange; add 19.105.3 diamond

The size requirements for the flange of the stone cutting wheel; add 19.105.4 flange strength test; modify 18.103 to 19.106, and improve the tool master

Shaft requirements (see Chapter 19, Chapter 18 of the 2000 edition);

---Mechanical strength was revised from 18.1.102 to 20.101 and 20.102, and the strength requirements for the wheel guard were improved (see Chapter 20, 2000 edition

Chapter 18);

--- The structure is revised from 20.18 of the original Part 1 to 21.18.2.1, and the requirements for the power switch are improved; the discomfort corresponding to Part 1 is added

Terms of use (see Chapter 21, Chapter 20 of the 2000 edition);

--- The component increases corresponding to 23.3 of Part 1 (see Chapter 23);

---The power connection and external flexible cord are modified from the original 23.2 to 24.4, that is, the requirements for the power cord material are improved (see Chapter 24, 2000 edition

Chapter 23);

---Add informative Appendix I "Measurement of Noise and Vibration" (see Appendix I).

The translation method used in this part is equivalent to the IEC 62841-3-10:2015 "Motor-driven handheld and portable electric tools and gardens

Machine Safety Part 3-10.Special Requirements for Portable Profile Cutting Machines.

The Chinese documents that have a consistent correspondence with the international documents cited in this section are as follows.

---GB/T 4127.15-2007 Fixed size of abrasive tools Part 15.Cutting wheels for stationary or mobile cutting machines

(ISO 603-15:1999, MOD)

---GB/T 34560 (all parts) structural steel [ISO 630 (all parts)]

This section has made the following editorial changes.

--- Amend the standard name to "Safety of hand-held, portable electric tools and garden

tools Part 311.Movable profile cutting

Special requirements for cutting machines";

---This part incorporates the content of IEC 62841-3-10:2015/COR1:2016, and the clauses involved in these technical corrections have been passed

It is marked by the vertical double line (||) on the outer margin position;

---There is an error in the international standard. Now the 8mm metric system in Table 102 is changed to 5/16in from 2in.

This part shall be in accordance with GB/T 3883.1-2014 "Safety of Hand-held and Portable Electric Tools and Garden Tools Part 1.General Requirements"

Seek to be used together.

This part specifies the "applicable" part, which means that the corresponding clause in GB/T 3883.1-2014 applies; this part specifies the "replacement" part,

The clauses in this part shall prevail; the part in this part with "modification" indicates the relevant clauses of GB/T 3883.1-2014

The content should be subject to the revised content of this section, and the other content in this clause still applies; the "additional" part in this section means that except

In addition to complying with the corresponding provisions of GB/T 3883.1-2014, it should also comply with the additional provisions of this section.

This part was proposed by China Electrical Equipment Industry Association.

This part is under the jurisdiction of the National Electric Tool Standardization Technical Committee (SAC/TC68).

Drafting organizations of this section. Hongda Group Co., Ltd., Shanghai Electric Tool Research Institute (Group) Co., Ltd., Ruiqi Holding Co., Ltd.

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introduction

In 2014, my country issued the national standard GB/T 3883.1-2014 "Safety No. of Handheld and Portable Power Tools and Garden Tools"

Part 1.General Requirements, the original GB/T 3883 (part of hand-held power tools), GB/T 13960 (part of portable power tools) and

The common technical requirements of the general safety standards of the three series of electric tools in GB/T 4706 (only for garden electric tools) have been integrated.