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

GB/T 3883.309-2021

**Safety of motor-operated hand-held, transportable and garden
tools - Part 309: Particular requirements for transportable mitre
saws**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents"

Drafting.

This document is part 309 of GB/T 3883 "Safety of Handheld and Portable Electric Tools and Garden Tools". "Handheld, removable

Movable power tools are currently composed of the following 5 parts in Part 3 of "Safety of Portable Power Tools and Garden Tools".

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

Special requirements for source diamond drills;

---GB/T 3883.311-2019 Hand-held, portable electric tools and garden tools safety part 311. portable type

Special requirements for wood cutting machines;

---GB/T 3883.302-2021 Hand-held, portable electric tools and garden tools safety part 302. portable table

Special requirements for saws;

---GB/T 3883.305-2021 Hand-held, portable electric tools and garden tools safety part 305. portable table

Special requirements for type grinders;

Special requirements for cutting saws.

This document replaces GB/T 13960.9-1997 "Safety Part II of Portable Electric Tools. Particular Requirements for Miter Cutting Machines", and

Compared with GB/T 13960.9-1997, the main technical changes are.

- 1) Scope. Added and clarified the requirements of various accessories and their parameters of the portable miter saw (see Chapter 1, Chapter 1 of the.1997 edition);
- 2) Terms and definitions. increase inclination angle, compound angle, sawing edge area, D, grid, center workpiece support, fully depressed position, horizontal

Sawing capacity, saw gap, sawing board, miter angle, (saw blade) quadrant, rest position, sawing device, table top, rotary table, vertical sawing energy

The definition of force, modify the definition of miter saw, delete the definition of normal load (see Chapter 3, Chapter 2 of the.1997 edition);

3) General requirements. Add descriptions about saw blades and D (see Chapter 4);

4) Test general conditions. increase the quality of the tool, including the description of the scope, the program of the horizontal sawing ability (see Chapter 5,.1997 edition

Chapter 4);

5) Marks and instructions. increase the requirements for the marking range of the saw blade diameter and the marking requirements on the table on both sides of the saw blade; modify the instructions

Safety warnings, putting into use, operating instructions, maintenance and after-sales service instructions (see Chapter 8, Chapter 7 of the.1997 edition);

6) Abnormal operation. Modify Table 4 of Part 1 (see Chapter 18, Chapter 17 of the.1997 edition);

7) Mechanical hazard. add 19.3, 19.7.101, and 19.7.102 tests; modify the requirements of the saw blade guard; increase the rebound device, running and stopping time

Requirements; other requirements such as saw table, saw table baffle, flange, dust collection port structure, etc. are moved to Chapter 20 and revised (see Chapter 19,.1997

Chapter 18 of the Annual Edition);

8) Mechanical strength. increase the requirements of shield material/thickness, handling device, workbench, etc. (see Chapter 20, Chapter 19 of the.1997 edition);

9) Structure. Increase the requirements for the switch, the structure is convenient for the installation of the sawing tool, the workbench is against the grid, the clamping device, etc. (see section

Chapter 21, Chapter 20 of the.1997 edition);

10) Add Appendix I (informative) noise and vibration measurement;

11) Add appendix K (normative) battery-type tools and battery packs, appendix L (normative) to provide power connection or non-isolated source battery

Tools and battery packs.

The translation method used in this document is equivalent to the IEC 62841-3-9.2014 "Electric Motor Driven Handheld and Portable Electric Tools and Garden Machines"

Safety Part 3-9.Particular Requirements for Portable Miter Saws".

This document has made the following editorial changes.

---The name of the standard was revised to "Safety of hand-held, portable power tools and garden tools. Part 309.Portable miter saws

Specific requirements";

---Included IEC 62841-3-9.2014/COR1.2015 and IEC 62841-3-9.2014/COR2.2016 technical errata content,

Respectively, delete the "prevention of self-reset required by 23.3" and the corresponding level in the original table 4, and modify the 8.3 Zhongyuan 0.975D to

0.96D. The position of the outer margin of the terms involved is marked with a vertical double line (||).

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

Seek to be used together.

The "applicable" part of this document indicates that the corresponding provisions in GB/T 3883.1-2014 are applicable; this document specifies the "replacement" part,

The provisions in this document shall prevail; the part in this document that states "modification" indicates the relevant provisions of GB/T 3883.1-2014

The content should be based on the revised content of this document, and the other content in this clause still applies;

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

This document was proposed by the China Electrical Equipment Industry Association.

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

Drafting organizations of this document. Jiangsu SUMEC Hardware Tools Co., Ltd., Shanghai Power Tools Research Institute (Group) Co., Ltd., Zhengyang Technology

Co., Ltd., Baoshide Technology (China) Co., Ltd., Nanjing Deshuo Industrial Co., Ltd., and Ruiqi Holding Co., Ltd.

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