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

GB/T 3883.305-2021

**Safety of motor-operated hand-held, transportable and garden
tools - Part 305: Particular requirements for transportable
bench grinders**

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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 305 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;

Special requirements for type grinders;

---GB/T 3883.309-2021 Hand-held, portable electric tools and garden tools safety part 309. portable oblique

Special requirements for cutting saws.

This document replaces GB/T 13960.5-2008 "Safety of portable electric tools Part 2. Special requirements for bench grinders",

Compared with GB/T 13960.5-2008, the main technical changes are.

1) Scope. Added and clarified all kinds of accessories and their parameter requirements for portable bench grinders

chapter);

2) Terms and definitions. modify the definitions of portable bench grinders, tool spindles and workpiece holders, delete other terms and definitions (see section

Chapter 3, Chapter 3 of the.2008 edition);

3) General requirements. Add a description about D (see Chapter 4, Chapter 4 of the.2008

edition);

4) Test general conditions. add the definition of the quality of the portable bench grinder (see Chapter 5, Chapter 5 of the.2008 edition);

5) Marks and instructions. the contents of the original 8.1 were moved to 8.2 and 8.3, and related modifications were made; 8.14.1 was added; the original 8.12.1.101 was moved to 8.14.1.101, and make relevant modifications; increase the relevant requirements of 8.14.2a), 8.14.2b) and 8.14.2c) (see Chapter 8,.2008

Chapter 8 of the Year Edition);

6) Abnormal operation. add the description of the test method of the movable bench grinder driven by the three-phase motor; modify the part 1

Table 4; Delete the original 18.10 (see Chapter 18, Chapter 18 of the.2008 edition);

7) Mechanical hazard. specify the test items corresponding to different accessories; modify the requirements of the shield opening and the eye shield; the original 19.102 is moved to 19.6, and make relevant changes; add 19.7 and 19.8; modify the requirements of the Mars guard plate, workpiece bracket and flange; add

19.105; the original 19.101 was moved to 19.106, and related modifications were made; the imbalance test was added (see Chapter 19, Chapter 19 of the.2008 edition

chapter);

8) Mechanical strength. The original 19.101.1.1 was moved to 20.101, and related modifications were made; the requirements for tool spindles, handling devices and workbenches were added.

Seek (see Chapter 20, Chapter 20 of the.2008 edition);

9) Structure. Add 21.18.2.1 and the requirements for the dust outlet; delete the original 21.18 (see Chapter 21, Chapter 21 of the.2008 edition);

10) Components. 23.3 added (see Chapter 23, Chapter 23 of the.2008 edition);

11) Appendix I (informative). Increase the measurement of noise and vibration.

The translation method used in this document is equivalent to the IEC 62841-3-4.2016 "Electric Motor Driven Handheld and Portable Electric Tools and Garden Machines"

Safety Part 3-4.Special requirements for portable bench grinders".

This document has made the following editorial changes.

---The standard name was revised to "Safety of hand-held, portable electric tools and garden tools, Part 305.portable bench-type grinding wheels

Machine-specific requirements";

---Incorporated the technical errata of IEC 62841-3-4.2016/COR1.2016, and the size of the original drawing 104 " $\leq 85^\circ$ " was modified to

" $\geq 85^\circ$ "; the amendments of IEC 62841-3-4.2016/AMD1.2019 are included, and the original ISO 603-4

Change the reference to Figure 106, delete the reference standard, add Figure 106, the outer margin position of the terms involved

It 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 clauses in GB/T 3883.1-2014 apply; the "replacement" part of this document,

The terms 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 shall be subject to the revised content of this document, and the other content in this clause still applies; the "increase" part of this document indicates that in addition to

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. Shanghai Electric Tool Research Institute (Group) Co., Ltd., Jiangsu Jinding Electric Co., Ltd., Jiangsu Dongcheng Electric Industrial Co., Ltd.

Tools Co., Ltd., Jiangsu SUMEC Hardware Tools Co., Ltd., Baoshide Technology (China) Co., Ltd., Ruiqi Holdings Co., Ltd.

Introduction

In 2014, my country issued the national standard GB/T 3883.1-2014 "Safety of hand-held and portable electric tools and garden tools No. 1

Part. 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 for the three major