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

GB/T 3883.203-2025

Replacing GB/T 3883.3-2007

**Safety of motor-operated hand-held, transportable and garden
tools - Part 203: Particular requirements for hand-held grinders,
disc-type polishers and disc-type sanders**

手持式、可移式电动工具和园林工具的安全 第203部分：手持式砂轮机、盘式抛
光机和盘式砂光机的专用要求

(English Translation)

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Foreword

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

Drafting.

This document is Part 203 of GB/T 3883, "Safety of Hand-held, Portable Power Tools and Garden Tools". GB/T 3883...

---GB/T 3883.201-2017 Safety of handheld and portable power tools and garden tools - Part 2: Electric drills and impacts Specific requirements for electric drills;

---GB/T 3883.202-2019 Safety of Hand-held, Portable Power Tools and Garden Tools - Part 202: Hand-held Screwdrivers Special requirements for thread cutters and impact wrenches; Specific requirements for disc polishers, disc polishers, and disc sanders;

---GB/T 3883.204-2019 Safety of Hand-held, Portable Power Tools and Garden Tools - Part 204: Hand-held Non-...

Specific requirements for disc sanders and polishers;

---GB/T 3883.205-2019 Safety of Handheld and Portable Power Tools and Garden Tools - Part 205: Handheld Round Tools Specific requirements for saws;

---GB/T 3883.206-2025 Safety of handheld and portable power tools and garden tools - Part 206: Handheld hammers Specific requirements for class tools;

---GB/T 3883.208-2023 Safety of handheld, portable power tools and garden tools - Part 208: Handheld power tools Special requirements for scissors and electric shears;

---GB/T 3883.209-2021 Safety of Handheld, Portable Power Tools and Garden Tools - Part 209: Handheld Attack Tools Specific requirements for wire drawing machines and threading machines;

---GB/T 3883.210-2019 Safety of Handheld, Portable Power Tools and Garden Tools - Part 210: Handheld Power Tools Specific requirements for planers;

---GB/T 3883.211-2021 Safety of handheld, portable power tools and garden tools - Part 211: Handheld power tools Specific requirements for double sawing;

---GB/T 3883.215-2022 Safety of handheld and portable power tools and garden tools - Part 215: Handheld stirrers Special requirements for mixers;

---GB/T 3883.217-2023 Safety of handheld and portable power tools and garden tools - Part 217: Handheld wooden tools Special requirements for milling.

This document replaces GB/T 3883.3-2007 "Safety of Handheld Power Tools - Part 2: Grinding Machines, Polishing Machines and Disc Sanders".

The "Specific Requirements for Machines" differs from GB/T 3883.3-2007 in that, aside from structural adjustments and editorial changes, the main technical changes are as follows.

a) Expanded the operating range of grinding wheels, polishing machines, and disc sanders; added grinding wheels for concrete surfaces; added documents...

Applicable description (see Chapter 1);

b) Added terms such as "diamond grinding wheel" and "concrete surface grinding wheel machine" to the terminology and definitions, and deleted terms such as "angle disc sander".

(See Chapter 3, 2007 edition Chapter 3);

c) Added a description of tool quality in the general test conditions (see Chapter 5);

d) The requirement for "rated no-load speed" has been added to the label and instruction manual; the requirement for "rated speed" has been deleted; warning statements or labels have been added; and supplementary information has been provided.

Add safety instructions 8.14.1.101 (modified and renumbered), 8.14.2a) add some content, and add clause 8.14.2b).

8.14.2c)(see Chapter 8, 2007 edition);

e) Section 12.4 of the fever section has been removed (see Chapter 12, 2007 edition Chapter 12);

f) Table 4 corresponding to Part 1 in the abnormal operations section has been modified, and 18.10 has been deleted (see Chapter 18, Chapter 18 of the 2007 edition);

g) Modified section 19.1 on mechanical hazards; added section 19.3; added a replacement for section 19.6; modified sections 19.101, 19.102, 19.103, and 19.104.

19.105; Modified 19.106, deleted 19.107 (see Chapter 19, Chapter 19 of the 2007 edition);

h) Requirements 20.1 and 20.5 for mechanical strength were added; 20.101 was revised; and 20.102 and 20.103 were added (see Chapter 20, 2007 edition).

Chapter 20);

i) Modified section 21.18.1 in the structure; deleted section 21.18.2; added modifications to sections 21.30 and 21.35 (see Chapter 21, 2007 edition).

Chapter 21);

j) Added a replacement for 23.3 in the component (see Chapter 23);

k) Appendix I.2.4, Table I.101, Table I.102, and Table I.103 have been revised to add simulated grinding wheel diameter;

l) Added battery-powered tools and battery packs (specifications) (see Appendix K);

m) The material and thickness of the guard in Appendix AA have been revised to Appendix AA Grinding Wheel Guard Type (Normative) (see Appendix AA);

n) An appendix CC, Grinding Wheel Type Specifications (Normative), has been added (see Appendix CC).

This document is equivalent to IEC 62841-2-3:2020 AMD1.2024 "Handheld and portable power tools driven by electric motors and garden tools".

Lin Machinery Safety Part 2-3. Specific Requirements for Handheld Grinding Machines, Disc Polishers and Disc Sanders.

The following minimal editorial changes have been made to this document.

---The standard title has been changed to "Safety of Handheld, Portable Power Tools and Garden Tools - Part 203: Handheld Grinders, Discs..." Special requirements for disc polishers and disc sanders;

---Incorporates amendments to IEC 62841-2-3:2020/Amd.1.2024; the relevant clauses are indicated by blank space on the outer margin.

The double vertical lines (||) are marked.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

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

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

Introduction

This document is consistent with GB/T 3883.1-2014 "Safety of handheld and portable power tools and garden tools - Part 1: General requirements" Use them together.

The parts of this document that specify "Applicable" indicate that the corresponding clauses in GB/T 3883.1-2014 apply; the parts of this document that specify "Replace" indicate that...