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NATIONAL STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

GB/T 3883.404-2025

Replacing GB/T 4706.78-2005

Safety of motor-operated hand-held, transportable and garden tools - Part 404: Particular requirements for pedestrian controlled walk-behind lawnmowers

手持式、可移式电动工具和园林工具的安全 第404部分：步行控制割草机的专用要求

(English Translation)

Issued on: October 31, 2025 **Implemented on: May 1, 2026**

Issued by: State Administration for Market Regulation

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Appendix L (Normative) Provides battery-powered tools and battery packs with either a power connection or a non-isolated source.

Appendix AA (Normative) Safety Signs

Appendix BB (Normative) Test Fence

Appendix CC (Normative) Foot Protection Test for Rotary Lawn Mowers

Appendix DD (Normative) Test on Braking Time of Lawn Mower Cutting Devices

Appendix EE (Normative) Examples of Materials and Structures Conforming to Artificial Ground Requirements

References

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 404 of GB/T 3883, "Safety of Hand-held, Portable Power Tools and Garden Tools". GB/T 3883...

---GB/T 3883.401-2023 Safety of Handheld and Portable Power Tools and Garden Tools - Part 401: Chainsaws Requirements;

---GB/T 3883.402-2023 Safety of handheld and portable power tools and garden tools - Part 402: Pruning shears Special requirements;

---GB/T 3883.403-2017 Safety of handheld, portable power tools and garden tools - Part 4: Walking and hand-held power tools Special requirements for handheld lawn mowers and lawn trimmers;

Specific requirements for lawnmowers;

---GB/T 3883.405-2025 Safety of Handheld and Portable Power Tools and Garden Tools - Part 405: Special Purpose of Grass Shears Requirements.

This document replaces GB/T 4706.78-2005 "Safety of household and similar electrical appliances - Part 2: Pedestrian-controlled electric lawnmowers".

The main technical changes in the "Special Requirements for Machines" compared to GB/T 4706.78-2005 are as follows.

a) The general requirements used in conjunction with this document have been changed from GB 4706.1-2005 to GB/T 3883.1-2014;

b) Added detailed explanations of inapplicable terms (see Chapter 1);

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c) Terms such as "operating normally" have been removed; "cutting device" has been changed to "cutting equipment," etc. (See Chapter 3, 2005 edition) Chapter 3);

d) The requirement in section 4.101 (Chapter 4 of GB/T 4706.78-2005) has been deleted;

e) Added descriptions of accessories and configurations, lawnmower quality specifications, and test sample requirements (see Chapter 5);

f) Added requirements for some safety symbols, easily identifiable and durable markings, and safety instructions and information in the instruction manual (see Chapter 8);

g) The relevant requirements and testing methods for fever have been changed (see Chapter 12, Chapter 11 of GB/T 4706.78-2005);

h) The test conditions for moisture resistance have been modified and added (see Chapter 14, Chapter 15 of GB/T 4706.78-2005);

i) The test methods for durability have been changed (see Chapter 17, Chapter 18 of GB/T 4706.78-2005);

j) Table 4 in the abnormal operation section has been modified (see Chapter 18, Chapter 19 of GB/T 4706.78-2005);

k) The requirements 19.1, 19.7, etc., in the General Requirements for Mechanical Hazards have been amended; among them, 19.101.1 has been added for rotary lawnmowers.

Requirements such as these; for drum mowers, requirements such as 19.103.1 have been added (see Chapter 19, GB/T 4706.78-2005, section...).

Chapter 20);

l) Increased requirements for the mechanical strength of rotary lawnmowers, such as 20.101.1 (see Chapter 20);

m) Added requirements regarding the handle shaft in the structure; added requirements such as 21.101 (see Chapter 21);

n) Added requirements for testing switches (section 23.1.10) and protective devices (section 23.3) in the components (see Chapter 23);

o) Changes were made to the power connection and the connection method in the external flexible cord, etc. (see Chapter 24, GB/T 4706.78-2005, section...) Chapter 25);

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

q) Added battery-powered tools and battery packs that provide power connection or non-isolated sources (specifications) (see Appendix L);

r) The safety signs for safety instructions and warnings have been revised (normative) (see Appendix AA, Appendix AA of GB/T 4706.78-2005);

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s) The test enclosure has been modified (informative) (see Appendix BB, Appendix BB of GB/T 4706.78-2005);

t) Added a foot protection test for rotary lawnmowers (standard) (see Appendix CC);

u) Added a braking time test for lawnmower cutting devices (standard) (see Appendix DD);

v) Modified the examples of materials and structures conforming to the requirements for artificial ground (normative) (see Appendix EE, GB/T 4706.78-2005).

Record CC).

This document is equivalent to IEC 62841-4-3:2020 "Safety of hand-held and portable power tools and garden machinery driven by electric motors".

Part 4-3.Specific requirements for walk-controlled lawnmowers.

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 404: Walk-Controlled Lawn Mowers" Specific requirements.

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, portable power tools and garden tools - Part 1: General requirements" Use them together.

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

In cases where the provisions of this document apply, the terms of this document shall prevail; where "modified" is specified in this document, it indicates that the relevant clauses of GB/T 3883.1-2014 are subject to change.

The content is subject to the revised version of this document, while other provisions in this clause remain applicable; any parts marked "added" in this document indicate that, in addition to...

In addition to complying with the relevant clauses of GB/T 3883.1-2014, it must also comply with the clauses added in this document.

In.2014, my country issued the national standard GB/T 3883.1-2014, "Safety of Handheld

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