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

GB/T 3883.401-2023

Replacing GB/T 3883.14-2007

**Safety of motor-operated hand-held, transportable and garden
tools - Part 401: Particular requirements for chain saws**

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

---GB/T 3883.403-2017 Safety of hand-held and portable power tools and garden tools Part 4. Walking and hand-held

Special requirements for portable lawn trimmers and lawn edge trimmers;
use requirements;

---GB/T 3883.402-2023 Safety of hand-held and portable power tools and garden tools Part 402. Pruning shears

Special requirements.

This document replaces GB/T 3883.14-2007 "Safety of hand-held power tools Part 2. Special requirements for chain saws" and is consistent with

Compared with GB/T 3883.14-2007, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- a) "Pole type pruning saw" is added to the inapplicable content of the scope chapter, and the operation of the left and right hands is clarified (see Chapter 1);
- b) In the terminology, 3.102.1 and 3.102.2 are added under 3.102 chain braking, the "saw cutting length" and "rebound" are modified, and the "maximum speed" is added

and "operator presence sensor" (see Chapter 3, Chapter 3 of the.2007 edition);

c) Add description of chain saw quality and test sample requirements to the general test conditions (see Chapter 5);

d) Add some safety symbols, signs, safety instructions and information in the instructions to the signs and instructions (see Chapter 8);

e) Add test conditions to moisture resistance (see Chapter 14);

f) For abnormal operation, the test conditions and result judgments of 18.3 are added, and Table 4 is added (see Chapter 18);

g) Add requirements for 19.9 fasteners in mechanical hazards, modify 19.101 handles, 19.103 rear handle baffles, and modify the original 19.104 "Mounting

"Protection of moving parts" is "Driving sprocket cover" and the content is refined, the test of the original 19.105 is deleted, and the original 19.106 anti-skid teeth are moved to 21.103

And add content, modify the original 19.108 rebound protection, add 19.110 saw chain lubrication conditions, add 19.112 medium tension adjustment

and cessation provisions (see Chapter 19, Chapter 19 of the.2007 edition);

h) The mechanical strength increases the mechanical strength of 20.1 test conditions, 20.3.1 test methods and 20.103 saw chain limit blocks (see Chapter 20);

i) Structural modification. The original requirements for switches 21.18.1 and 21.18.2 are 21.18.101 and 21.18.102, and the sawing length of 21.101 is added.

OK, 21.102 Operator Presence Sensor, delete the original 21.31 and 21.32 (see Chapter 21, Chapter 21 of the.2007 edition);

j) The components are added to the relevant testing of 23.1.10 switch and the requirements of 23.3 protective device (see Chapter 23);

k) Add 24.1 connection method for power supply connection and external soft cord (see Chapter 24);

l) Add Appendix I noise and vibration measurements (informative) (see Appendix I);

m) Add Appendix K battery-operated tools and battery packs (normative) (see Appendix K);

n) Add Appendix L to provide battery-powered tools and battery packs with power connections or non-isolated sources (normative) (see Appendix L);

o) Modify safety instructions and warning safety signs (normative) (see Appendix AA, Appendix AA of the.2007 version);

p) Modification of homework examples (informative) (see Appendix BB, Appendix BB of

the.2007 version);

q) Add artificial ground (informative) (see Appendix CC).

This document is equivalent to IEC 62841-4-1.2017 "Safety of hand-held and portable power tools and garden machines driven by electric motors".

Part 4-1. Specific requirements for chain saws.

This document has made the following minimal editorial changes.

---The name of the standard is changed to "Safety of Hand-held and Portable Power Tools and Garden Tools Part 401. Special Requirements for Chain Saws"

beg".

Please note that some content in this document may be subject to patents. The publisher of this document assumes no responsibility for identifying patents.

Introduction

This document is consistent with GB/T 3883.1-2014 "Safety of hand-held and portable power tools and garden tools - Part 1. General requirements"

use together.

The parts marked "applicable" in this document indicate that the corresponding provisions in GB/T 3883.1-2014 are applicable; the parts marked "replaced" in this document

If not, the terms in this document shall prevail; the part marked "modification" in this document indicates the relevant provisions of the corresponding provisions of GB/T 3883.1-2014

The content is subject to the revised content of this document, and other contents in this clause are still applicable; the part marked "added" in this document means that in addition to the

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

In.2014, my country issued GB/T 3883.1-2014 "Safety of hand-held and portable power tools and garden tools - Part 1. General

"Using Requirements", the original GB/T 3883 (hand-held power tools), GB/T 13960 (portable power tools) and GB/T 4706

(Garden power tools only) The common technical requirements of the general safety standards of the three major series of power tools have been integrated.

The special requirements for specific types of small products used in conjunction with GB/T

3883.1-2014 are divided into three parts, namely Part 2 (hand

Part 3 (Hand-held power tools), Part 3 (Part movable power tools), Part 4 (Part 4 (Garden power tools)), are all converted into corresponding

Specific requirements of the IEC 62841 series.

The main element of the standard name is expanded to "Safety of hand-held, portable power tools and garden tools", and the original hand-held power tools will be used.

Part of the standard number GB/T 3883. The standard sub-part number of each sub-category of products consists of three digits, of which the first digit

Indicates the corresponding part, and the 2nd and 3rd digits indicate different small categories of products.

The new version of GB/T 3883 series standards will form a more scientific, complete, universal and unified series of safety standards for power tool products

The system makes the implementation of standards more feasible and easy to use.

At present, the new version of the GB/T 3883 series standard "Garden Power Tool Part" has released the following standards.

---GB/T 3883.403-2017 Safety of hand-held and portable power tools and garden tools Part 4. Walking and hand-held

Special requirements for portable lawn trimmers and lawn edge trimmers. The purpose is to standardize walking and hand-held lawn trimmers, lawn trimmers

Specific special safety requirements for edge machine products.

Use requirements. The purpose is to standardize specific special safety requirements for small categories of chain saw products.

---GB/T 3883.402-2023 Safety of hand-held and portable power tools and garden tools Part 402. Pruning shears

Special requirements. The purpose is to standardize specific special safety requirements for small categories of pruning shears.

The following standards will be revised in the future.

---GB/T 4706.64-2012 Safety of household and similar electrical appliances Part 2. Special requirements for scissor-type grass shears;

---GB/T 4706.65-2003 Safety of household and similar electrical appliances Part 2. Pedestrian-controlled electric lawn scarifiers

and special requirements for sand loosening machines;