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

GB/T 42607-2023

Powered hand-held hedge trimmers - Safety

动力手持式绿篱修剪机 安全

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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 for Standardization Documents" drafting: This document is equivalent to ISO 10517:2019 "Safety of Powered Hand-Held Hedge Trimmers": Please note that some contents of this document may refer to patents: The issuing agency of this document assumes no responsibility for identifying patents: This document is proposed by the State Forestry and Grassland Administration: This document is under the jurisdiction of the National Forestry Machinery Standardization Technical Committee (SAC/TC61): This document was drafted by: Shandong Huasheng Zhongtian Machinery Group Co., Ltd.; National Forestry and Grassland Bureau Harbin Forestry Machinery Research Institute, Nanjing Chervon Technology Co., Ltd.; Yongkang Maojin Garden Machinery Co., Ltd.; Zhejiang Yate Electric Co., Ltd.; Yongkang Weili Technology Co., Ltd.; Zhejiang Pinier Technology Co., Ltd.; Jinhua Shangpu Electric Co., Ltd.; Jiangsu SUMEC Hardware Tools Co., Ltd: Division, Baoshide Technology (China) Co., Ltd: The main drafters of this document: Shao Yiqun, Yang Xuefeng, Gao Yang, Liu Jidong, Wang Qian, Zou Yongfeng, Ding Junfeng, Liu Fei, Li Feng, Zhu Daoqing, Lu Jiangfeng, Pei Yong, Ding Yucai, Hu Anguo: Powered Handheld Hedge Trimmer Safety

1 Scope

GB/T 42607-2023 sets the safety requirements for powered hand-held hedge trimmers. It covers the engine-driven and battery machines used in landscaping rather than the domestic mains tool: heavier, held at arm's length on a shoulder strap, often above head height, with a blade that keeps moving after the throttle is released. The braking time of that blade is the single most important number in the standard. It lists the significant hazards and then sets and verifies the safety requirements: the handles and hand protection, the shoulder strap, the holding torque, the blade braking time, the blade sheath and the cutting attachments, the starting and idling behaviour, the control devices, the guards, the noise

and vibration, and the information for use, with an annex on the safety signs. It took effect on 1 December 2023.

This document specifies the trimming of hedges and shrubs powered by an internal combustion engine and operated by one person with one or more linear reciprocating cutters: Safety technical requirements and test methods for design and structure of hand-held hedge trimmers (hereinafter referred to as "hedge trimmers"): This document also applies to split pole hedge trimmers and multifunction machines configured as hedge trimmers: This document gives methods for eliminating or reducing various hazards arising from the use of hedge trimmers, and specifies the safety requirements provided by the manufacturer: Information requirements for the full code of practice: This document gives important information about hedge trimmers when used as intended and under conditions of misuse reasonably foreseeable by the manufacturer: Major hazards, dangerous situations and events (see Chapter 4): This document does not apply to hedge trimmers with an engine displacement above 80cm³, nor does it apply to the hedge trimmers produced before the release of this document Hedge trimmer:

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text: Among them, dated references For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document:

GB/T 15706-2012 General Principles of Machinery Safety Design Risk Assessment and Risk Reduction (ISO 12100:2010, IDT)

GB/T 16842-2016 Test tools for testing the protection of human and equipment by enclosures (IEC 61032:1997, IDT)

GB/T 23821-2009 Safety distance of machinery to prevent upper and lower limbs from touching the danger zone (ISO 13857:2008, IDT) ISO 3767-

1 Symbols for operator controls and other indicating devices of agricultural and forestry tractors and machinery, lawn and garden power machinery

GB/T 4269:1-2000 Agricultural and forestry tractors and machinery, lawn and gardening power machinery Operator control mechanism and other symbols for display devices Part 1: General symbols (idt ISO 3767-1:1991) ISO 3767-

3 Symbols for operator controls and other indicating devices of agricultural and forestry tractors and machinery, lawn and garden power machinery

GB/T 4269:3-2000 Agricultural and forestry tractors and machinery, lawn and garden power machinery Operator control mechanism and other symbols for display devices Part 3:

Symbols for lawn and garden power machinery (idt ISO 3767-3:1995) ISO 3767-

4 Symbols for operator controls and other indicating devices of agricultural and forestry tractors and machinery, lawn and garden power machinery rymachinery)

GB/T 4269:4-2014 Agricultural and forestry tractors and machinery, lawn and garden power machinery Operator control mechanism and other symbols for display devices Part 4: Symbols for forestry machinery (ISO 3767-4:1993, IDT) ISO 3864-

2 Graphical symbols Safety colors and safety signs Part 2: Design principles for product safety labels (Graphical