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

LY/T 1668-2022

**Portable collection, crushing and sweeping machine powered
by gasoline engine
(English Translation)**

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Table of Contents

Foreword

1 Scope

2 Normative references

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 replaces LY/T 1668-2006 "Garden Machinery Portable Wind Collector Grinder", compared with LY/T 1668-2006, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- a) The name of the document was changed from "Garden Machinery Portable Wind Collector Grinder" to "Portable Collector Grinder Powered by Gasoline Engine" Set crushing and cleaning machine";
- b) Changed the content of normative references;
- c) Added terms and definitions (see Chapter 3);
- d) The structure of the document has been changed, and the technical requirements and test methods of the original document have been combined into one chapter (see Chapter 4, Chapter 4 and Chapter 4 of the 2006 edition Chapter 5);
- e) Changed the requirements and inspection methods for start-up performance (see 5.3.1, 4.2.2 of the 2006 edition);
- f) Changed the inspection method of idle speed performance (see 5.3.2.2, 5.3 of the 2006 edition);
- g) Added collection performance requirements and inspection methods (see 5.3.4);
- h) Changed the crushing performance requirements and inspection methods (see 5.3.4, 4.4.5 of the 2006 edition);
- i) The performance requirements and test methods for the sealing of the fan volute are added (see 5.3.6);
- j) Changed the requirements for the strength of the fan volute and added its inspection method (see 5.4.1, 4.4.2 of the 2006 edition);

- k) Changed the inspection method of the operating mechanism (see 5.4.4.1, 5.11 of the 2006 edition);
- l) The requirements and inspection methods for the engine shutdown switch are added (see 5.4.5);
- m) Added requirements for straps and content of inspection methods (see 5.4.6);
- n) The requirements and inspection methods for the connection between the collection pipe and the fan volute have been changed, and the relevant requirements for the chip discharge pipe have been added (see 5.5.2, 4.5.3, 5.12.2 of the 2006 edition);
- o) The requirements and inspection methods for the exhaust port temperature of the muffler are added (see 5.5.3);
- p) The test method for the thermal protection of the shield has been added (see 5.5.4.2);
- q) The content and inspection method of the protection of high-voltage live parts are added (see 5.5.5);
- r) Added discharge requirements and inspection methods (see 5.5.8);
- s) The content of electromagnetic compatibility has been changed (see 5.5.9, 4.1 of the 2006 edition);
- t) Delete the content of the inspection rules (see Chapter 6 of the 2006 edition);
- u) Improved some content in Appendix A (see Appendix A, Appendix A of the 2006 edition).

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies the product model, main technical parameters and technical requirements of the portable wind-powered collection, pulverization and cleaning machine powered by gasoline engine.

Requirements and test methods, signs, instructions for use, packaging, transportation and storage.

This document is applicable to those powered by gasoline engines, whose operation objects are residual plants such as leaves and small dead branches, and the inner diameter of the nozzle is not greater than 120mm.

The collection and crushing cleaning machine (hereinafter referred to as "sweeping machine").

This document does not apply to knapsack sweepers powered by gasoline engines.

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 191 Packaging, storage and transportation icon marks GB/T 2423.55 Environmental testing for electrical and electronic products - Part 2: Environmental testing Test Eh. Hammer test GB/T 4269.1 Agricultural and forestry tractors and machinery Lawn and garden power machinery operator control mechanism and other display devices symbols no. Part 1: General symbols GB/T 4269.5 Operator control symbols and other markings for portable forestry machinery GB/T 5390 Forestry and garden machinery powered by internal combustion engine Portable handheld operation machinery noise measurement specification engineering method (Class 2 precision) GB/T 5395 Forestry and garden machinery powered by internal combustion engine Portable hand-held operating machinery vibration measurement specification Handle vibration GB/T 9480 Agricultural and forestry tractors and machinery Lawn and garden power machinery instruction manual compilation rules GB 10396 Agricultural and Forestry Tractors and Machinery, Lawn and Garden Power Machinery Safety Signs and Hazard Graphics General Rules GB/T 13306 Signage GB/T 13384 General Technical Specifications for Packaging of Mechanical and Electrical Products GB/T 15092.1 Appliance Switches Part 1: General Requirements GB/T 16842-2016 Test tools for testing the protection of enclosures against people and equipment GB/T 19725.1 Agricultural and forestry machinery Portable brush cutters and lawn mowers Safety requirements and tests Part 1: Side-mounted power machinery GB/T 21398 Agricultural and Forestry Machinery Electromagnetic Compatibility Test Methods and Acceptance Rules GB 26133 Limits and Measurement Methods of Exhaust Pollutants from Small Ignition Engines Used in Non-road Mobile Machinery (China First and Second stage) GB/T 31202 Agricultural and forestry machinery and garden machinery hand-held control and hand-held control machinery accessibility to hot surfaces determination JB/T 5135.1 General Small Gasoline Engine Part 1: Technical Specifications JB/T 5135.2 General Small Gasoline Engine Part 2: Bench Performance Test Method JB/T 5135.3 General Small Gasoline Engine Part 3: Reliability, Durability Test and Evaluation Method LY/T 1621 Modeling method of garden machinery products