

ICS 65.060.70
CCS B 91

LY

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

LY/T 1605-2002

Replacing LY/T 1605-2002

**Garden machinery - Walk-behind rolling lawn aerators powered
by gasoline engine
(English Translation)**

Issued on: July 27, 2016

Implemented on: December 1, 2016

Issued by: State Forestry Administration

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard is a revision of LY/T 1605-2002 "Incremental Turf Punch Ventilation Machine", compared with LY/T 1605-2002, mainly the technical content changes as follows.

- a) Change the standard name from "follow-up lawn drilling ventilator" to "garden machinery with gasoline engine-powered hand-held scrolling grass Ping punching machine", the corresponding English name is changed from "Pedestrian-controlled lawnaerator" to "Gardenmachinery-";
- b) revised the scope (see Chapter 1, Chapter 1 of the 2002 edition);
- c) revised normative references (see Chapter 2, Chapter 2 of the 2002 edition);
- d) Modify the "flip-in lawn venting ventilator" in Chapter 3 to "rolling lawn punching machine" and change the "punching device" to "rolling" "Move the hole punching component", modify the "punch head" to "punch pin" and modify its definition (see 3.1, 3.2, 3.3, 2002 edition 3.1, 3.2, 3.8);
- e) Delete the terms and definitions of "punch head lifting device", "punch head stop time" and "belt limit device" in Chapter 3 (2002) Versions 3.3, 3.7, 3.9);
- f) added the content of the model preparation method (see Chapter 4);
- g) added the content of the basic parameters (see Chapter 5);
- h) increased requirements for the use environment (see 6.1.1);
- i) increased the minimum accuracy requirements of the test instrument (see 6.1.3);
- j) Revised the requirements for the matching gasoline engine and added corresponding test methods (see 6.2, 2002 edition 4.3.3);
- k) modified the requirements for starting performance and its test methods (see 6.3.1, 2002 edition 4.2.1);

- l) modified the requirements for idle performance and its test methods (see 6.3.2, 2002 edition 4.2.2);
- m) an increased test method for idling (see 6.3.3.2);
- n) modified the requirements for the drilling depth (see 6.3.4.1, 2002 edition 4.2.7);
- o) modified the requirements for the life of the punching needle and added corresponding test methods (see 6.4.1, 2002 version 4.3.6);
- p) Revised the "lifting device" to "adjusting mechanism", modified its requirements and added corresponding test methods (see 6.4.3, 2002) Version 4.2.6);
- q) modified the requirements for hazardous area protection and added corresponding test methods (see 6.5.1, 2002 version 4.5.1, 4.5.2);
- r) a test method for increasing the safety distance of the handlebar (see 6.5.2.2);
- s) increase the requirements of the brake device and its test method (see 6.5.3);
- t) a test method for increasing the clearance of the punched needle from the ground (see 6.5.4.2);
- u) modified the operator's ear noise requirements and test methods (see 6.5.5, 2002 version 4.5.4, 5.8);
- v) increased requirements for vibration, thermal protection, electromagnetic compatibility of the handlebars and test methods (see 6.5.6, 6.5.7, 6.5.9);
- w) modified the requirements for exhaust emissions and added corresponding test methods (see 6.5.8, 2002 version 4.5.8);
- x) modified the reliability requirements and test methods (see 6.6, 2002 edition 4.2.10, 5.9);
- y) increased assembly quality requirements and test methods (see 6.7);
- z) modified the appearance quality requirements and added corresponding test methods (see 6.8, 2002 edition 4.4);
- Aa) Revised inspection rules and divided product inspections into factory inspections, type inspections and third party inspections (see Chapter 7, 2002 edition) Chapter 6);
- Bb) Revised the requirements of the instruction manual and added corresponding test methods (see 8.2, 2002 edition 7.3).

This standard is proposed and managed by the National Forestry Machinery Standardization Technical Committee (SAC/TC61).

1 Scope

This standard specifies the terms, definitions and models of the hand-held rolling lawn punching machine (hereinafter referred to as punching machine) powered by gasoline engine.

Preparation methods, basic parameters, technical requirements, test methods, inspection rules, signs, instructions for use, packaging, transportation and storage.

This standard is applicable to hand-held rolling lawn punching machines powered by gasoline engines.

This standard does not apply to hand-held rolling lawn punching machines, tractor hanging and traction lawn drilling machines, hole needle vertical movement Lawn punching machine, injection lawn punching machine.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 191 packaging storage and transportation icon GB/T 2828.4 Test procedures for counting sampling - Part 4. Procedures for assessing quality levels GB/T 9480 Agricultural and forestry tractors and machinery, lawn and gardening power machinery manual Safety of agricultural and forestry tractors and machinery - Part 14. Power pulverizers and choppers GB 10396 General rules for safety signs and hazard figures for agricultural and forestry tractors and machinery, lawn and horticultural power machinery General technical conditions for GB/T 13384 mechanical and electrical product packaging GB/T 21398 Agricultural and forestry machinery electromagnetic compatibility test methods and acceptance rules GB 23821-2009 Mechanical safety to prevent the upper and lower limbs from reaching the safe distance of the danger zone GB 26133 Limits and measurement methods for emission of pollutants from small ignition engines for non-road mobile machinery (China No.1 and II stage) GB 26509-2011 Safety requirements and test methods for step-type lawn mowers powered by steam (chamber) oil machine JB/T 5135.1 General purpose small gasoline engine Part 1. Technical conditions JB/T 5135.2 General purpose small gasoline engines - Part 2 JB/T 5135.3 General purpose small gasoline engines - Part 3. Reliability, endurance test and assessment method JB/T 5673 General technical conditions for painting of agricultural and forestry tractors and implements LY/T 1621 garden machinery model preparation rules

3 Terms and definitions

The following terms and definitions apply to this document.

Rolling lawn punching machine rotating lawnaerator A punching needle is radially arranged along a radial direction of a knife roll or a cutter head, and a gasoline machine drives a knife roll or a cutter head through a mechanical transmission, depending on the weight of the machine the force causes the punching needle to penetrate into the soil, forming a tubular cavity on the flat bed, and is a machine for ventilating the flat bed.