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

GB/T 38364.1-2019

**Garden equipment -- Safety requirements for
combustion-engine-powered lawnmowers -- Part 1: Terminology
and common tests**

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Foreword

GB/T 38364 `` Safety requirements for lawn machinery for garden machinery powered by internal combustion engine " is divided into the following parts.

--- Part 1. Terminology and general tests;

--- Part 2. Stepping lawn mower;

--- Part 3. Mounted lawn mower.

This part is the first part of GB/T 38364.

This section is drafted in accordance with the rules given in GB/T 1.1-2009.

This section uses the translation method equivalent to ISO 5395-1..2013, Safety Requirements for Lawn Mowers Powered by Internal Combustion Engines for Garden Machinery

Part 1. Terminology and general tests.

The Chinese documents that have a consistent correspondence with the international documents referenced normatively in this section are as follows.

--- GB/T 3767-2016 Acoustic sound pressure method for the determination of sound power level and sound energy level of a noise source. Approximate free field above the reflecting surface.

Engineering Law (ISO 3744..2010, IDT);

--- GB/T 3785.1-2010 Electroacoustic sound level meter Part 1. Specification (IEC 61672-1..2002, IDT);

--- GB/T 15706-2012 General rules for safety design of machinery for risk assessment and risk reduction (ISO 12100..2010, IDT);

--- GB/T 17248.2-2018 The noise emitted by acoustic machines and equipment can ignore the environmental correction above a reflecting surface

The approximate free field to determine the emission sound pressure level at the working position and other specified positions (ISO 11201..2010, IDT);

--- GB/T 20247-2006 Acoustic reverberation room sound absorption measurement (ISO 354..2003, IDT);

--- GB/T 20485.1-2008 Calibration method for vibration and shock sensors-Part 1. Basic concepts (ISO 16063-1.

1998, IDT);

--- GB/T 20485.11-2006 Calibration method for vibration and shock sensors Part 11. Absolute calibration of vibration by laser interference method

(ISO 16063-11..1999, IDT);

--- GB/T 20485.12-2008 Calibration method for vibration and shock sensors-Part 12. Absolute calibration of vibration by reciprocity method

(ISO 16063.12..2002, IDT);

--- GB/T 20485.13-2007 Calibration method for vibration and shock sensors Part 13. Absolute calibration of shock by laser interference method

(ISO 16063-13..2001, IDT);

--- GB/T 20485.15-2010 Calibration method for vibration and shock sensors Part 15. Absolute calibration of angular vibration by laser interference method

Standard (ISO 16063-15..2006, IDT);

--- GB/T 20485.16-2018 Calibration method for vibration and shock sensors-Part 16. Earth gravity calibration

(ISO 16063-16..2014, IDT);

--- GB/T 20485.21-2007 Calibration methods for vibration and shock sensors Part 21. Calibration by vibration comparison method

(ISO 16063-21..2003, IDT);

--- GB/T 20485.22-2008 Calibration method for vibration and shock sensors-Part 22. Calibration by shock comparison method

(ISO 16063-22..2005, IDT);

--- GB/T 20485.31-2011 Calibration method for vibration and shock sensors-Part 31. Transverse vibration sensitivity test

(ISO 16063-31..2009, IDT);

--- GB/T 20485.33-2018 Calibration method for vibration and shock sensors Part 33.

Magnetic sensitivity test (ISO 16063-

33 .2017, IDT);

--- GB/T 20485.41-2015 Calibration method for vibration and shock sensors Part 41. Calibration of laser vibrometer

(ISO 16063-41..2011, IDT);

--- GB/T 20485.42-2018 Calibration method for vibration and shock sensors Part 42. Gravity acceleration of high-precision seismometer

Degree calibration (ISO 16063-42..2014, IDT);

--- GB/T 25631-2010 Mechanical vibration evaluation rules for handheld and hand-guided mechanical vibration (ISO 20643..2005,

IDT);

--- GB/T 38364.2-2019 Garden machinery Safety requirements for lawn mowers powered by internal combustion engines-Part 2. Stepping

Lawn mower (ISO 5395-2..2013, IDT);

--- GB/T 38364.3-2019 Safety requirements for lawnmowers powered by internal combustion engines for garden machinery. Part 3. Mounts

Lawn mower (ISO 5395-3..2013, IDT).

The following editorial changes have been made in this section.

--- Incorporated the amendment No. 1 of ISO 5395-1..2013 ISO 5395-1..2013/Amd1..2017 "Appendix G (Vibration Measurement Regulations

Fan arm vibration and whole body vibration) "content;

--- Removed unreferenced ISO 5008..2002/Cor1..2005 and ISO 5008..2002 from the list of normative references;

--- F.2d of ISO 5395-1..2013 The unit error of wind speed 5m/s² should be 5m/s, which has been corrected in this section.

Please note that some elements of this document may involve patents. The issuer of this document is not responsible for identifying these patents.

This section is proposed by the State Forestry and Grassland Administration.

This section is under the jurisdiction of the National Forestry Machinery Standardization Technical Committee (SAC/TC61).

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1 Scope

This part of GB/T 38364 specifies the rotary blade lawn mower and hob lawn mower powered by an internal combustion engine (the following simplified

(Referred to as "turf machine") terms and general test methods for safety requirements, including stepping (with or without passenger accessories) and riding type, and

And is equipped with.

--- metal cutting devices, and/or;

--- Non-metal cutting device, one or more cutting parts are hingedly mounted on a nearly circular driving device.

Cutting is achieved by centrifugal force, and the cutting energy (kinetic energy) of each cutting part is not less than 10J.

This section does not apply to.

--- Robot and remote-control lawn mower, flutter (flail) lawn mower, lawn mower, blade reciprocating lawn mower, trailing/half

Mounted lawn mowers and de-irrigators;

--- Cutting device components used with agricultural tractors;

--- Electric lawn mowers and lawn mowers powered by batteries.

Note. GB 4706.1-2005 and GB/T 4706.78-2005 give requirements for electric lawn mowers with walk control.

This section does not apply to lawn mowers produced before the release of this section.

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this article

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