

ICS 65.060.80

CCS B 95



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

GB/T 19725.1-2020

Replacing GB 19725.1-2014

**Agricultural and forestry machinery - Safety requirements and testing
for portable, hand-held, powered brush-cutters and grass-trimmers -
Part 1: Machines fitted with an integral combustion engine**

Issued on: April 28, 2020

Implemented on: April 28, 2020

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

Table of Contents

Foreword

1 Scope

2 Normative references

Foreword

GB/T 19725 "Safety requirements and tests of portable brush cutters and lawn mowers for agricultural and forestry machinery" is divided into the following two parts.

--- Part 1. Side-mounted power machinery;

--- Part 2. Piggyback power machinery.

This part is part 1 of GB/T 19725.

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

This part replaces GB 19725.1-2014 "Safety Requirements and Tests of Portable Brush cutters and Lawn Mowers for Agriculture and Forestry Machinery.

Side-mounted power machinery ", the main technical content has no change compared with GB 19725.1-2014.

The translation method used in this part is equivalent to the adoption of ISO 11806-1..2011 "Safety Requirements and Trials of Portable Brushcutters and Lawnmowers for Agriculture and Forestry Machinery"

Test Part 1. Side-mounted power machinery ".

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

--- GB/T 5390-2013 Forestry and garden machinery specification for noise measurement of portable handheld operating machinery powered by internal combustion engine

Engineering method (level 2 accuracy) (ISO 22868..2011, IDT)

--- GB/T 5395-2014 Forestry and garden machinery vibration measurement specification for portable handheld operating machinery powered by internal combustion engine

Handle vibration (ISO 22867..2011, IDT)

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

--- GB/T 18961-2012 Forestry machinery portable brush cutter and lawn mower vocabulary (ISO 7112..2008, IDT)

--- GB/T 21398-2008 Agricultural and forestry machinery electromagnetic compatibility test methods and acceptance rules (ISO 14982..1998, IDT)

--- GB/T 25078.1-2010 Recommendations for the design and implementation of acoustic low noise machines and equipment. Part 1. Planning (ISO /TR 11688-1..1995, IDT)

--- LY/T 1036-2000 Portable brush cutter and lawn mower cutting accessories safety cover size (eqvISO 7918..1995)

--- LY/T 1349-2000 Portable brush cutter and lawn mower cutting accessories safety cover strength (eqvISO 8380..1993)

--- LY/T 3165-2019 Forestry machinery portable brush cutter and lawn mower engine performance and fuel consumption (ISO 8893. 1997, IDT)

Please note that some content of this document may involve patents. The issuer of this document does not assume responsibility for identifying these patents.

This part is proposed by the State Forestry and Grassland Bureau.

This part 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 19725 stipulates the portable side-mounted power that uses the internal combustion engine as the power source and transmits the mechanical power to the cutting accessory

Safety requirements and test methods for the design, structure and use of brush cutters and lawn mowers (hereinafter referred to as complete machines). This section proposes

The method of removing or reducing various hazards generated during the use of brush cutters and lawn mowers stipulates the relevant safety provided by the manufacturer

Requirements for operational information.

This section covers all serious dangers related to the whole machine during normal use and reasonable, foreseeable misuse of the whole machine by the manufacturer.

Dangerous situations and serious hazard events.

Note. See Appendix C for a list of serious hazards.

This section does not apply to the whole machine equipped with non-integral metal cutting accessories, such as chain swing or knife blade.

This section applies to portable side-mounted power brush cutters and lawn mowers produced after their implementation.

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 the cited documents without date, the latest version (including all amendments) applies to this document.

GB/T 23821-2009 Safety of machinery to prevent the upper and lower limbs from reaching the safe distance of the hazardous area (ISO 13857..2008, IDT)

LY/T 1035-2001 Portable brush cutter cutting accessories single-piece metal blade (idtISO 7113..1999)

ISO 683-9. 1988 Heat-treated steel, alloy steel and free-cutting steel Part 9. Forged free-cutting steel (Heat-treatablesteel,

aloysteelsandfree-cuttingsteels-Part 9. Wroughtfree-cuttingsteels)

ISO 7112 Forestry machinery portable brush cutter and lawn mower vocabulary (Machineryforforestry-Portablebrush-cuttersandgrass-trimmers-Vocabulary)

ISO 7918 forestry machinery portable brush cutter and lawn mower cutting accessories safety cover size (Forestrymachinery-

Portablebrush-cuttersandgrass-trimmers-Cuttingattachmentguarddimensions)

ISO 8380 forestry machinery portable brush cutter and lawn mower cutting accessories safety cover strength (Forestrymachinery-

Portablebrush-cuttersandgrass-trimmers-Cuttingattachmentguardstrength)

ISO 8893 forestry machinery portable brush cutter and lawn mower engine performance and fuel consumption (Forestrymachinery-

Portable brush-cutters and grass trimmers-Engine performance and fuel consumption)

ISO /T R11688-1 Recommended Practice for Design of Acoustic Low-Noise Machines and Equipment Part 1. Design (Acoustics-

Recommended practice for the design of low-noise machinery and equipment-Part 1. Planning)

ISO 12100..2010 General principles of machinery safety design risk assessment and risk reduction (Safety of machinery-General

principles for design-Risk assessment and risk reduction)

ISO 14982..1998 Agricultural and forestry machinery electromagnetic compatibility test methods and acceptance rules (Agricultural and forestry ma-

chinery-Electromagnetic compatibility-Test methods and acceptance criteria)

ISO 22867 Forestry and garden machinery. Internal combustion engine powered portable hand-held operating machinery. Vibration measurement specification. Handle vibration

(Forestry and gardening machinery-Vibration test code for portable hand-held machines with internal combustion engine-Vibration at the handles)