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

GB/T 19725.2-2020

Replacing GB 19725.2-2014

**Agricultural and forestry machinery - Safety requirements and testing
for portable, hand-held, powered brush-cutters and grass-trimmers -
Part 2: Machines for use with back-pack power unit**

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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 2 of GB/T 19725.

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

This part replaces GB 19725.2-2014 "Safety requirements and tests of portable brush cutters and lawn mowers for agricultural and forestry machinery. Part 2.

"Knapsack Power Machinery", the main technical content has not changed compared with GB 19725.2-2014.

The translation method used in this section is equivalent to the adoption of ISO 11806-2..2011 "Safety Requirements and Trials for Portable Brushcutters and Lawnmowers for Agriculture and Forestry Machinery"

Test Part 2. Piggyback 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 3766-2015 General rules and safety requirements for hydraulic transmission systems and their components (ISO 4413..2010,

MOD)

--- GB/T 7932-2017 General rules and safety requirements for pneumatic systems and components (ISO 4414..2010, IDT)

--- GB/T 15706-2012 General principles of machinery safety design risk assessment and risk reduction (ISO 12100..2010, 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 specifies a portable piggyback power that uses an internal combustion engine as the power source and transmits mechanical power to the cutting accessory

Safety requirements and test methods for the design, structure and use of brush cutters and lawn mowers. This section proposes to eliminate or reduce the use of integral

The methods of various hazards produced by the machine stipulate the requirements of the relevant materials for safe operation provided by the manufacturer.

The relevant chapters of this part and part 1 (see 4.1) refer to the normal use and reasonable, foreseeable manufacturer misuse of the whole machine

All serious hazards, dangerous situations and serious hazard events related to the whole machine, except for the whole-body vibration hazard caused by the backpack-type power plant.

Note 1. There is currently no standard test procedure for measuring the whole body vibration caused by the piggyback power plant.

Note 2. For a list of serious hazards, see Appendix A and Appendix C of GB/T 19725.1-2020.

This section applies to products produced after its implementation.

This section does not apply to the installation of non-integral metal blade structure of the machine, such as chain swing or knife blade.

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 19725.1-2020 Safety requirements and tests for portable brush cutters and lawn mowers for agricultural and forestry machinery. Part 1. Side-mounted

Force Machinery (ISO 11806-1..2011, IDT)

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)

ISO 4413 General rules and safety requirements for hydraulic drive systems and their components (Hydraulicfluidpower-General

rulesandsafetyrequirementsforsystemsandtheircomponents)

ISO 4414 General rules and safety requirements for pneumatic systems and their components (Pneumaticfluidpower-Generalrules

andsafetyrequirementsforsystemsandtheircomponents)

ISO 12100 Risk Assessment and Risk Reduction for Machinery Safety Design (Safetyofmachinery-General

principlesfordesign-Riskassessmentandriskreduction)

3 Terms and definitions

The terms and definitions defined in GB/T 19725.1-2020 and the following apply to this document.

Note. Figure 1 gives examples of brush cutters with knapsack power sources that fall within the scope of this section.

3.1

Implement appliance

A device with a drive shaft sleeve combination, a cutting accessory and its safety cover, and a handle is installed.

3.2

Machine

A complete brush cutter (or lawn mower), including a backpack-type power unit and machinery.