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

GB/T 20888.2-2020

Replacing GB 20888.2-2013

**Machinery for forestry - Safety requirements and testing for
pole-mounted powered pruners - Part 2: Machines for use with
back-pack power source**

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Foreword

GB/T 20888 "Safety Requirements and Tests of Forestry Machinery Pole Power Pruning Saws" is divided into two parts.

--- Part 1. Side-mounted power pruning saw;

--- Part 2. Piggyback power pruning saw.

This part is part 2 of GB/T 20888.

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

This part replaces GB 20888.2-2013 "Safety Requirements and Tests for Forestry Machinery Pole Power Pruning Saws Part 2. Piggyback

"Power pruning saw", compared with GB 20888.2-2013, the main technical content has not changed.

The translation method used in this section is equivalent to the use of ISO 11680-2..2011 "Safety Requirements and Tests for Forestry Machinery Pole Power Pruning Saws, Part 2"

Part. Piggyback Power Pruning Saw. "

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 20888 specifies the rod type with a piggyback power device and the power source transmits power to the cutting component via the transmission shaft

The safety requirements and test methods of the design and structure of the knapsack power pruning saw (hereinafter referred to as "knapsack pruning saw"). In this section

The cutting part refers to the saw chain and the saw blade doing reciprocating motion or rotating motion. This section proposes to eliminate or reduce the use of piggyback saws

The methods of various hazards stipulated by the manufacturer stipulate the information requirements on safe operation provided by the manufacturer.

This section and the relevant chapters of Part 1 of GB/T 20888 refer to the relevant

Reasonable and predictable all serious hazards when misused, but does not involve electric shock hazards caused by contact with overhead cables (contains in the instruction manual

Except for warnings and recommendations) and the whole-body vibration hazard caused by the backpack-type power unit.

Note 1. At present, there is no standard test procedure for measuring the whole body vibration caused by the piggyback power plant.

Note 2. See Appendix A for a list of serious hazards.

This section applies to products produced after its 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 20888.1-2020 Safety requirements and tests for forestry machinery rod-type power pruning saws Part 1. Side-mounted power pruning

Saw (ISO 11680-1..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 drive systems and their components (Pneumaticfluidpower-General rulesandsafetyrequirementsforsystemsandtheircomponents)

ISO 12100..2010 General principles of machinery safety design risk assessment and risk reduction (Safetyofmachinery-General principlesfordesign-Riskassessmentandriskreduction)

3 Terms and definitions

The terms and definitions defined in GB/T 20888.1-2020 and ISO 12100 and the following apply to this document.

3.1

Appliance

Installed with drive shaft sleeve, cutting accessories, sprocket guard and handle device.

3.2

Machine

A pole-type power pruning saw including a power source and appliances, a machine for cutting branches on tree trunks.

Note. An example is shown in Figure 1.