

ICS 65.060.80

CCS B 95



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

GB/T 20888.1-2020

Replacing GB 20888.1-2013

**Machinery for forestry - Safety requirements and testing for
pole-mounted powered pruners - 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 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 1 of GB/T 20888.

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

This part replaces GB 20888.1-2013 "Safety Requirements and Tests for Forestry Machinery Pole Power Pruning Saws Part 1. Side-mounted

"Power pruning saw", compared with GB 20888.1-2013, the main technical content has not changed.

The translation method used in this section is equivalent to the use of ISO 11680-1..2011 "Safety Requirements and Tests for Forestry Machinery Pole Power Pruning Saws Part 1 Part. Side-mounted 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 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 gauge for portable handheld operating machinery powered by internal combustion engine

Fan 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 18960-2012 Forestry machinery portable chain saw vocabulary (ISO 6531..2008,

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)

--- LY/T 1035-2001 Single-piece metal blade (idtISO 7113..1999)

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).

This section was drafted by. Zhejiang Sanfeng Industrial Co., Ltd., Zhejiang Yusen Bailian Tools Co., Ltd., Zhejiang Sapasi Tool Manufacturing

Co., Ltd., Yongkang Power Technology Co., Ltd., Zhejiang Pineil Technology Co., Ltd., Jiangsu Sumida Hardware Tools Co., Ltd.,

Zhejiang Zhongma Garden Machinery Co., Ltd., Harbin Forestry Machinery Research Institute of State Forestry and Grassland Bureau, Nanjing Deshuo Industrial Co., Ltd.

1 Scope

This part of GB/T 20888 stipulates the rod-type side-mounted power that uses the internal combustion engine as the power source to transmit power to the cutting accessory through the transmission shaft

Safety requirements and test methods for the design, structure and use of pruning saws (hereinafter referred to as side-mounted pruning saws). Attached in this section

The piece refers to a saw chain and a saw blade with an outer diameter not greater than 205 mm that performs reciprocating motion or rotating motion. This section proposes to eliminate or reduce the use of

The methods of various hazards generated by the side-mounted pruning saw powered by the internal combustion engine stipulate the relevant safe operation aspects provided by the manufacturer

Data requirements.

This section deals with all important hazards related to side-mounted pruning saws during normal use and reasonable and predictable misuse,

However, there is no reference to the hazard of electric shock caused by overhead cables

that have been warned in the operation manual.

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

This section applies to side-mounted pruning saws 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 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 6531 Forestry Machinery Portable Chainsaw Vocabulary
(Machineryforforestry-Portablechainsaws-Vocabulary)

ISO 7112..2008 Forestry machinery portable brush cutter and lawn mower vocabulary
(Machineryforforestry-Portable
brush-cuttersandgrass-trimmers-Vocabulary)

ISO 7113..1999 portable brush cutter cutting accessories single-piece metal blade
(Portablehand-heldforestryma-
chines-Cuttingattachmentsforbrushcutters-Single-piecemetalblades)

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

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

ISO 14982..1998 Agricultural and forestry machinery electromagnetic compatibility test
methods and acceptance rules (Agriculturalandforestryma-
chinery-Electromagneticcompatibility-Testmethodsandacceptancecriteria)

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

internalcombustionengine-Vibrationatthehandles)

ISO 22868 Forestry and garden machinery-Internal combustion engine powered portable hand-held operating machinery-Determination of noise specification engineering method

(Level 2 accuracy)

(Forestryandgardeningmachinery-Noisetestcodeforportablehand-heldmachineswith

internalcombustionengine-Engineeringmethod (Grade2accuracy)]

IEC 60745-1..2006 Hand-held power tool safety Part 1. General requirements

(Hand-heldmotor-operated

electrictools-Safety-Part 1. Generalrequirements)