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

GB/T 38366-2019

Machinery for forestry - Noise test code

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Foreword

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

This standard uses the translation method equivalent to ISO 18564..2016 "Forestry Machinery Noise Measurement Specification".

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

--- GB/T 6236-2008 Agricultural and forestry tractors and machinery driver's seat marking points (ISO 5353..1995, MOD);

--- GB/T 14574-2000 Identification and verification of noise emission values of acoustic machines and equipment (eqvISO 4871..1996);

--- 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 is used to determine the emission sound pressure level at the working position and other specified positions (ISO 11201..2010, IDT).

For ease of use, the following editorial changes have been made to this standard.

--- In the main view label in Figure 1, the "z" axis label was added, and the missing "1.5m" dimension label was added.

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

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

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

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1 Scope

This standard specifies all necessary information and basic conditions for testing the noise value of self-propelled forestry machinery. This standard applies

Used in fellers, stackers, pruners, forwarders, wood loaders, skidder machines, wood-making machines, combined harvesters, irrigation

Wood cleaning machine and multifunctional machinery.

The noise emission includes A-weighted sound pressure level and A-weighted sound power level at the operator's position. The measured value of the noise value is very necessary.

- The manufacturer declares the noise value of his product;
- Compare the noise values between the various machine families;
- Control from the source of noise generation during the design process.

Note. For noise reduction design, it is necessary to measure the noise value of each frequency band. The noise value of each frequency band can be quantified according to ISO 3744 and ISO 11201.

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.

GB/T 3767-2016 Acoustic sound pressure method for measuring the sound power level and sound energy level of a noise source near the free field

Cheng Fa (ISO 3744..2010, IDT)

GB/T 25614-2010 Determination of sound power level of earth moving machinery-Dynamic test conditions (ISO 6395..2008, IDT)

GB/T 25615-2010 Dynamic test conditions for the determination of sound pressure levels

emitted by drivers of earthmoving machinery (ISO 6396..2008,

IDT)

ISO 4871 Acoustics-Declaration and Verification of Acoustic Machinery and Equipment
Noise Emissions

ofnoiseemissionvaluesofmachineryandequipment)

ISO 5353 Calibration points for earthmoving machinery, agricultural and forestry tractors
and machinery seats (Earth-movingmachinery, andtractors

andmachineryforagricultureandforestry-Seatindex)

ISO 11201 Measurement of sound pressure levels emitted by working positions and other
specified positions of noise emitted by acoustic machines and equipment

Engineering method of approximate free field above the shooting surface

(Acoustics-Noiseemitted by machineryandequipment-

Determinationofemissionsoundpressurelevelsataworkstationandatotherspecifiedpositionsin
an

essentiallyfreefieldoverareflectingplanewithnegligibleenvironmentalcorrections)