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# NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA



# GB 19997-2025

Replacing GB 19997-2005

## Harvesting machinery - Noise limits

收获机械 噪声限值

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**Standardization Administration of the PRC**

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## Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. This document replaces GB.19997-2005 "Noise Limits for Grain Combine Harvesters". Compared with GB.19997-2005, except for structural adjustments... Aside from integration and editorial changes, the main technical changes are as follows:

a) The correspondence between the power ratings and noise limits of the engines used in harvesting machinery has been changed (see Table 1, Table 1 in the.2005 edition);

b) Noise limits for harvesting machinery have been changed (see Table 1,.2005 edition);

c) Noise limits for single-cylinder engines used in harvesting machinery have been increased (see Table 1). Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed and is under the jurisdiction of the Ministry of Industry and Information Technology of the People's Republic of China. This document was first published in.2005, and this is its first revision.

With advancements in harvesting machinery technology and increased public awareness of environmental and health concerns, noise control measures for harvesting machinery are becoming increasingly important. This has become an important measure for protecting the environment and safeguarding drivers' hearing. When setting noise limits, both environmental protection needs and drivers' hearing safety must be considered. This includes the overall technological level of domestic harvesting machinery products. Furthermore, given the advancements in technology, particularly the achievements in noise control, Harvesting machinery must be designed and manufactured to minimize noise emissions in order to reduce potential impacts on the environment and human health. Noise. During the design phase of harvesting machinery, feasible noise control solutions and technologies must be fully evaluated. Harvesting machinery noise limits

## 1 Scope

GB 19997-2025 is the Chinese national standard covering how loud a combine or forage harvester may be - the limit at the operator's ear and the limit for the noise emitted to the surroundings, with the measurement conditions and the machine states under which each is taken. A mandatory GB standard, not a recommended one: compliance is a condition of sale. Issued on 31 October 2025, it takes effect on 1 November 2026, replacing GB 19997-2005.

This document specifies the dynamic environmental noise limits for harvesting machinery and the noise limits at the driver's operating position (near the ear), and describes the corresponding limits. Measurement methods. This document applies to self-propelled combine harvesters, corn harvesters, forage harvesters, cotton harvesters, and sugarcane combine harvesters.



## 2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

JB/T 6268 Method for Determining Noise in Self-Propelled Harvesting Machinery

## 3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 enclosed operationcab The driver is completely enclosed, including the air conditioning and pressurization systems, to prevent smoke, dust, and other contaminants from entering the driver's area. The device surrounding the staff.

3.2 generaloperationcab A thin-shell workspace device that completely encloses the driver, without a pressurization system, to improve the driver's working environment.

3.3 Simple Operation Cab It does not completely surround the driver, but only provides the driver with sunshade and rain protection.

4.Noise Limits The dynamic environmental noise of harvesting machinery and the noise at the driver's operating position (near the ear) should comply with the provisions of Table 1. Table

1 Noise Limits for Harvesting Machinery Cab type Matching engine power (P) kW Dynamic ambient noise sound pressure level dB(A) Noise pressure level at the driver's operating position (near the ear) dB(A) Closed driver's cab P< 37a - - 37<=P< 56 85 83 56<=P< 75 86 84