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

GB/T 14782-2021

Replacing GB/T 14782-2010

Earth-moving machinery - Grader - Technical specifications

土方机械 平地机 技术条件

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Foreword

This document is in accordance with the provisions of GB/T 1:1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules of Standardization Documents" drafted: This document replaces GB/T 14782-2010 "Technical Conditions for Motor Graders": Compared with GB/T 14782-2010, except for structural adjustment and In addition to editorial changes, the main technical changes are as follows:

- Changed the scope of application of this document (see Chapter 1, Chapter 1 of the:2010 edition);
- Added and deleted some normative references (see Chapter 2, Chapter 2 of the:2010 edition);
- Changed the classification (see Chapter 4, Chapter 4 of the:2010 edition);
- Changed the general requirements and performance requirements (see 5:1 and 5:2, 5:1 and 5:2 of the:2010 edition);
- Changed the safety and environmental protection requirements (see 5:3 and 5:4, 5:1 and 5:3 of the:2010 edition);
- Increased personal health requirements (see 5:4);
- Changed the test method (see Chapter 6, Chapter 6 of the:2010 edition);
- Changed the inspection rules (see Chapter 7, Chapter 7 of the:2010 edition);
- Changed the requirements for marking, packaging, transportation and storage (see Chapter 8, Chapter 8 of the:2010 edition): Please note that some content of this document may be patented: The issuing agency of this document assumes no responsibility for identifying patents: This document is proposed by China Machinery Industry Federation: This document is under the jurisdiction of the National Earthmoving Machinery Standardization Technical Committee (SAC/TC334): This document is drafted by: Xuzhou Xugong Road Construction Machinery Co., Ltd., Dingsheng Heavy Industry Machinery Co., Ltd., Sany Automobile Manufacturing Co., Ltd., National Machinery Industry Group Changlin Co., Ltd., Shandong Lingong Construction Machinery Co., Ltd., Tianjin

Construction Machinery Research Institute Co., Ltd.; Shantui Construction Machinery Co., Ltd.; Hongyuan Seiko Wheel Co., Ltd. The main drafters of this document: Li Bo, Ji Ming, Li Lianghui, Zhou Rongmei, Chi Feng, Li Guangqing, Zheng Zhenyu, Chen Hanjie: The previous versions of the documents replaced by this document are as follows:

---GB/T 14782-1993, GB/T 14782-2010: Earthmoving machinery grader technical conditions

1 Scope

GB/T 14782-2021 is the Chinese national standard on earth-moving machinery - grader - technical specifications, in the field of materials handling equipment. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 31 December 2021 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 July 2022. Classification: ICS 53.100, CCS P97. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the classification, requirements, test methods, inspection rules, marking, packaging, transportation and storage of self-propelled motor graders: This document applies to self-propelled motor graders (hereinafter referred to as motor graders):

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, dated citations documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document:

GB/T 3766 General rules and safety requirements for hydraulic transmission systems and their components GB/T 7920:

9 Terminology and commercial specifications for earth-moving machinery graders

GB/T 8419 Laboratory Evaluation of Earth-moving Machinery Driver's Seat Vibration

GB/T 8506 Motor Grader Test Method

GB/T 14039-2002 Hydraulic transmission oil solid particle pollution grade code

GB 16710 Earthmoving Machinery Noise Limit

GB/T 16937 Earth-moving machinery driver's visual field test method and performance criteria

GB/T 17300 Earth-moving machinery channel device

GB/T 18826 Industrial 1,1,1,2-tetrafluoroethane (HFC-134a) GB/T 19933:

2 Earthmoving Machinery Cab Environment Part 2: Test Methods for Air Filters GB/T 19933:

4 Earthmoving Machinery Cab Environment Part 4: Heating, Ventilation and Air Conditioning (HAVC) Test Methods and Performance GB/T 19933:

5 Earth-moving machinery cab environment Part 5: Test method for windshield defrosting system

GB/T 20082 Hydraulic Transmission Fluid Contamination Method for Determination of Particle Contamination Degree by Optical Microscope GB :20178 General Rules for Safety Labels of Earth-moving Machinery

GB 20891 Limits and Measurement Methods of Exhaust Pollutants from Diesel Engines for Non-Road Mobile Machinery (China Phase III and IV)

GB/T 21152 Performance requirements and test methods for wheeled or high-speed rubber crawler braking systems for earth-moving machinery

GB/T 22358 Earthmoving Machinery Protection and Storage