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

GB/T 25648-2010

**Road construction and maintenance machinery and equipment
- Soil stabilisers**

道路施工与养护机械设备 稳定土拌和机

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Foreword

Appendix A of this standard is an informative annex. The standard proposed by China Machinery Industry Federation. This standard by the national construction machinery and construction equipment Standardization Technical Committee (SAC/TC328) centralized. This standard was drafted. XCMG Xuzhou Xugong Road Construction Machinery Co., Ltd., Chang'an University, Shaanxi Construction Machinery Co., Ltd. The main drafters of this standard. YUNG Man - sing, Xie Liyang, senior Lu, Wang Lei, Pinder pure, Zhang Chen. Road construction and maintenance machinery and equipment Stabilized soil mixing machine

1 Scope

China's national standard for soil stabilisers used in road construction and maintenance. It specifies the terms and definitions, the types and basic parameters, the technical requirements, the test methods and the inspection rules for soil stabilising machines. A soil stabiliser is a self-propelled machine with a rotor that cuts down into the existing ground or a placed layer, pulverises it, and mixes it with a binder - cement, lime, fly ash or bitumen emulsion - to convert a material that is not good enough into one that is. That single capability changes the economics of a road. Without it, a subgrade of unsuitable soil is excavated and carted away and replaced with imported aggregate, which is expensive in haulage, in landfill and in the traffic it generates; with it, the existing material stays where it is and is improved in place. The same machine does full-depth reclamation, pulverising an old asphalt pavement together with its base and stabilising the mixture into a new base - which recycles the entire road rather than removing it. What determines whether the treated material performs is the uniformity of the mixing and the accuracy of the binder dosage, and both are properties of the machine. So the standard specifies the rotor and its cutting depth and speed, the mixing chamber and how the material is retained in it, the binder metering

system and its control, which must vary with the machine's forward speed to hold the dose per unit area, the traction and the depth control, and the performance measures of mixing uniformity and depth consistency. The safety requirements matter because the machine works with a large exposed rotor and in a dusty binder environment. Issued on 1 December 2010 and in force since 1 March 2011.

This standard specifies the road construction and maintenance machinery and equipment stabilized soil mixing machine (hereinafter referred to as stable mixing machine) terms and definitions, classifications, technical Operation requirements, test methods, inspection rules, signs, instructions, packaging, transportation and storage. This standard applies to tire stabilized soil mixing machine and tracked stabilized soil mixing machine.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 3766 Hydraulic System General technical conditions (GB/T 3766-2001, eqv ISO 4413.1998)

GB 5226.1 Safety of machinery electrical equipment Part 1. General requirements (GB 5226.1-2002, IEC 60204-1.2000, IDT)

GB/T 7920.10 road construction and maintenance equipment stabilized soil mixing machine Terminology and commercial specifications (GB/T 7920.10-2006, ISO 15688.2003, MOD)

GB/T 7935 General technical conditions for hydraulic components

GB/T 8419 moving machinery - Seat vibration laboratory evaluation (GB/T 8419-2007, ISO 7096.2000, IDT)

GB/T 8420 moving machinery physical dimensions of operators and minimum operator space (GB/T 8420-2000, eqv ISO 3411.1995)

GB/T 8499 moving machinery - Determination of the position of the center of gravity method (GB/T 8499-1987, idt ISO 5005. 1977)

GB/T 8592 moving machinery - Determination of turning machines tire size (GB/T 8592-2001, eqv ISO 7457.1997)

GB/T 8595 moving machinery operating device (GB/T 8595-2008, ISO 10968.2004, IDT)

GB/T 9969 General Instructions industrial products GB/T 13306 signs

GB/T 14039-2002 Hydraulic fluid level of contamination by solid particles (ISO 4406.1999, MOD)

GB 16710.1 Construction Machinery noise limits

GB/T 16710.2 Determination of machinery - Stationary test conditions of exterior noise of

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