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Agricultural machinery automatic driving system based on BDS

农业机械北斗自动驾驶系统

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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.

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 by the China Machinery Industry Federation.

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Beidou automatic driving system for agricultural machinery

1 Scope

This document specifies the system composition, technical requirements, inspection rules, marking, packaging, transportation, and storage of the Beidou automatic driving system for agricultural machinery.

The document describes the corresponding experimental methods.

This document applies to Level 0 to Level 3 automatic driving systems for tractors and self-propelled agricultural machinery based on the BeiDou satellite navigation system.

Design, manufacturing, and inspection.

2 Normative references

GB/T 191

GB/T 13306

GB/T 13384

GB/T 37164

GB/T 39521-2020

GB/T 42576-2023

GB/T 43478-2023

ISO 19206

3 Terms and Definitions

The terms and definitions defined in GB/T 43478-2023, as well as the following terms and definitions, apply to this document.

3.1

It integrates a BeiDou positioning unit (3.2), a human-computer interaction unit, a sensing unit, a computing unit, a control unit, a communication unit, and a management platform.

An agricultural machinery electronic system that automatically travels and operates along a planned path.

Note. Hereinafter referred to as "the system".

3.2 Beidou positioning unit (BDS)

Terminal equipment that uses the BeiDou satellite navigation system.

Note. This includes positioning chips, modules, or other similar forms.

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