

ICS 65.060.10

CCS T 65



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

GB/T 43478-2023

**Tractor-Automatic assistant steering systems-General technical
specification**

拖拉机 自动辅助驾驶系统 通用技术规范

Issued on: December 28, 2023

Implemented on: July 1, 2024

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

Foreword

1 Scope

2 Normative reference documents

3 Terms and definitions

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 be subject to patents: The publisher 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 Tractor Standardization Technical Committee (SAC/TC140):

This document was drafted by: China YTO Group Co., Ltd., Luoyang Xiyuan Vehicle and Power Inspection Institute Co., Ltd., Xingkedi Technology (Thailand) State) Co., Ltd., Shanghai CTI Navigation Technology Co., Ltd., AGCO (Changzhou) Agricultural Machinery Co., Ltd., Jiangsu Yueda Intelligent Agricultural Equipment Co., Ltd., Shandong Shifeng (Group) Co., Ltd., Henan University of Science and Technology, Guangxi University of Science and Technology, Ningbo Beiyue Tractor Manufacturing Co., Ltd:

Division, Jiangsu Changfa Agricultural Equipment Co., Ltd:

The main drafters of this document: Wang Contribution, Chen Song, Bai Yunfei, Wu Qiong, Wang Zimeng, Wang Dongqing, Shang Xiangsheng, Suo Jingkun, Jiao Junxiang, Yin Haifeng, Zhao Xiaolong, Shen Xuefeng, Wang Jianhua, Lu Fengxiang, Liao Hanping, Lin Lianhua, Yang Jisheng, Ji Baofeng, Gao Hongfeng, Gao Qiaoming, Wang Shuangjian, Fu Junxi, Xie Tailin:

Tractor automatic driving assistance system General technical specifications

1 Scope

This document specifies the system composition, requirements, test methods, inspection rules, marking, packaging, transportation and Storage:

This document applies to the design, manufacturing and inspection of satellite navigation

automatic assisted driving systems installed on tractors:

2 Normative reference documents

GB/T 2828

GB/T 3871

GB/T 4269

GB/T 4269

GB/T 6960

GB/T 9480

GB 10396

GB/T 21398-2008

GB/T 37164-2018

3 Terms and definitions

The terms and definitions defined in GB/T 6960:8 and the following apply to this document:

3:1 Relying on high-precision satellite navigation and inertial sensor components to complete high-precision positioning, attitude maintenance, and heading measurement, by controlling the hydraulic pressure The steering system or electronically controlled steering wheel realizes the control system of automatic assisted driving of the tractor along the planned route: 3:2 Tractors equipped with automated driving systems: 3:3 Positioning device positioning device; PD A device that uses satellite radio navigation signals to measure and report the position of the receiving antenna center in a geographical coordinate system in real time:

[Source: GB/T 6960:8-2021,3:4:2:3]