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

GB/T 20341-2026

Replacing GB/T 20341-2016

**Tractors and self-propelled machinery for agriculture - Operator
controls - Actuating forces, displacement, location and method
of operation**

农业拖拉机和自走式机械 操作者操纵装置 操纵力、位移量、操纵位置和方法
(English Translation)

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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/T 20341-2016 "Operating Force and Direction of Operator Control Devices for Agricultural Tractors and Self-Propelled Machinery".

Compared with GB/T 20341-2016, the main technical changes in "Direction, Manipulation Position and Method" are as follows, apart from structural adjustments and editorial modifications.

---The term and definition "minimum strength of control device" (see 3.4 in the 2016 edition) have been removed, and "virtual terminal control device" has been changed.

The terms and definitions (see 3.9, 3.10 in the 2016 edition) have been expanded to include "point-and-click control device" and "foot-operated control device".

"Hybrid power source" (see 3.10-3.12);

---The general requirements for the control device have been changed (see 4.1, 2016 version 4.1);

---Added requirements for signage and foot-operated control devices (see 4.2, 4.3);

---The operating requirements for the control device have been changed (see 4.5, 4.3 in the 2016 version).

This document is equivalent to ISO 15077:2020 "Operator control devices for agricultural tractors and self-propelled machinery - Operating forces, displacements, and other parameters".

Manipulation position and method.

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.

This document is under the jurisdiction of the National Technical Committee on Standardization of Agricultural Machinery (SAC/TC201).

1 Scope

This document specifies the manual control devices (e.g., hand-operated, finger-operated, foot-operated) and virtual terminal controls used by seated operators.

The relevant requirements and operating methods of the device.

This document applies to control devices installed on agricultural tractors and self-propelled agricultural machinery.

This document provides recommendations on the operating force and torque, operating direction, and installation location of manually operated devices.

This document also specifies the minimum information requirements for the use of manually operated devices as intended by the manufacturer, as provided in the instruction manual.

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.

ISO 3767-1 Operator control mechanisms and other display devices for agricultural and forestry tractors and machinery, lawn and garden power machinery Note. GB/T 4269.1-2000 Symbols for operator control mechanisms and other display devices of agricultural and forestry tractors and machinery, lawn and garden power machinery Part 1: General Symbols (ISO 3767-1:1991, IDT) ISO 3767-2 Operator control mechanisms and other display devices for agricultural and forestry tractors and machinery, lawn and garden power machinery Note. GB/T 4269.2-2016 Symbols for operator control mechanisms and other display devices of agricultural and forestry tractors and machinery, lawn and garden power machinery Part 2: Symbols for agricultural tractors and machinery (ISO 3767-2:2008, IDT) ISO 11783-6 Serial control and communication data networks for agricultural and forestry tractors and machinery - Part 6: Virtual terminals (tualterminal) Note. GB/T 35381.6-2017 Serial control and communication data networks for agricultural and forestry tractors and machinery - Part 6: Virtual terminals (ISO 11783-6.

2014, IDT)

3 Terms and Definitions

The following terms and definitions apply to this document.

control device

A device that is triggered by an operator to cause a response from the machine and its attachments or working implements.