

ICS 65.060.10

CCS T 61



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

GB/T 15370.3-2025

Replacing GB/T 15370.3-2012

**Agricultural tractors - General requirement - Part 3: Over 130
kW wheeled tractors**

农业拖拉机 通用技术条件 第3部分：130 kW以上轮式拖拉机

Issued on: February 28, 2025

Implemented on: September 1, 2025

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

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1 Scope

This document specifies the technical requirements, test methods, inspection rules, delivery, marks, transportation and storage of agricultural wheeled tractors with a power of 130 kW or more.

This document applies to the design, manufacture and inspection of agricultural wheeled tractors (hereinafter referred to as "tractors") with a power output greater than 130 kW.

2 Normative references

GB/T 1592

GB/T 1593

GB/T 2828.11-2008

GB/T 3871.3

GB/T 3871.4

GB/T 3871.6

GB/T 3871.9

GB/T 3871.10

3 Terms and definitions

For the purposes of this document, the terms and definitions defined in GB/T 6960 (all

parts) and GB/T 43478 apply.

4.1.1 Tractors shall be manufactured in accordance with product drawings and technical

documents approved through the prescribed procedures.

4.1.2 Parts and components connected by fasteners on the tractor shall be securely

connected as required. There shall be no looseness. Exposed fasteners shall be treated with rust prevention.

4.1.3 When the tractor is working normally, there shall be no abnormal noises from any system. There shall be no leakage of fluid, air, or electricity.

4.1.4 When the tractor is working normally, there shall be no mud or water seeping into the machine body.

4.1.5 The appearance quality of the tractor shall comply with the provisions of JB/T 6712.

4.1.6 The engine shall be able to operate stably throughout its entire speed range. It shall be able to stop directly by commanding the fuel cut-off. The hand throttle control shall be able to reliably stop at any position, unaffected by foot throttle operation.

4.1.7 The maximum opacity of tractor exhaust smoke shall not exceed 0.5 m-1.

4.1.8 The operation of all tractor control mechanisms shall be smooth, flexible, and with appropriate tension. The stroke adjustment of each mechanism shall conform to the specifications in the instruction manual. All control mechanisms with automatic return function shall automatically reset after the operating force is removed. Control mechanisms without automatic return function shall reliably stop at the selected position. The maximum operating force of each control mechanism shall conform to GB/T 19407. The direction of operation shall conform to GB/T 20341.

4.1.9 The clutch shall engage smoothly and disengage completely.

4.1.10 When the tractor gearbox is working, the gearbox shall not have any gear shifting failures such as random shifting or disengaging.

4.1.11 The rear-mounted power take-off shaft shall conform to the requirements of

GB/T 1592 (all parts). The front-mounted power take-off shaft shall conform to the requirements of GB/T 10916 (all parts).

4.1.12 The toe-in of the front wheels shall conform to the specifications in the instruction manual. The front drive axle shall conform to GB/T 21958.

4.1.13 When the tractor is parked in a straight-line driving position, the maximum free travel of the steering wheel shall not exceed 25°; the tractor shall be able to steer smoothly throughout the entire range; there shall be no discontinuous operation or impact phenomena. Manual steering shall be possible even if the tractor stalls or the power steering device malfunctions during operation. Steering performance shall comply with the requirements of GB/T 19040.

4.1.14 When a tractor is traveling in a straight line on a hard surface, the front wheels shall not exhibit any visible swaying.

4.1.15 Rear-mounted hydraulic suspension devices shall comply with the provisions of

GB/T 1593. Front-mounted suspension devices shall comply with the provisions of GB/T 10916 (all parts).

4.1.16 Tractor-mounted trailers shall comply with the relevant provisions of GB/T

19408 (all parts). Hydraulic quick-connect couplings shall comply with GB/T 5862.

4.1.17 The fully open pressure of the hydraulic system safety valve shall be consistent with the value specified in the instruction manual.

4.1.18 The electrical equipment of the tractor shall function normally. The electrical

equipment shall comply with the provisions of JB/T 6697.

4.1.19 The tractor's electronic control system shall function normally. The electronic

control system shall have Controller Area Network (CAN) bus communication capabilities. The tractor's power transmission system messages shall comply with GB/T 35381.8 The tractor's control mechanism bus shall comply with GB/T 35381 (all parts).

4.1.20 The electronic control system shall have fault diagnosis function, and the

diagnostic connector shall be a 9-pin connector conforming to GB/T 35381.2 or a 16-pin diagnostic connector conforming to GB/T 34589.

4.1.21 Tractors shall be equipped with at least a device for displaying engine speed, engine coolant temperature, engine operating hours, fuel tank level, engine control system malfunctions, after-treatment regeneration status and after-treatment malfunctions, as well as the status of the on-board terminal. The on-board terminal shall comply with the provisions of HJ 1322.

4.1.22 Tractor headlights shall comply with the provisions of JB/T 6701.LED

headlights shall comply with the provisions of JB/T 13488.

4.1.23 The hydraulic suspension system of the tractor shall be equipped with an electronic control system.

4.1.24 The electromagnetic compatibility of tractors shall comply with the provisions

of GB/T 21398.

4.1.25 Lighting and lighting signal devices shall comply with the provisions of GB/T

30464.

4.1.26 The dimensions of the tractor cab doorway, emergency exit, and driver's working

position shall conform to the provisions of GB/T 6238.

4.1.27 There shall be no leakage at any sealing surface or pipe joint of the tractor.

4.1.28 Tractors shall be equipped with horns that have a continuous sound output

function. The sound pressure level range shall be 90 dB(A)~115 dB(A).

4.1.29 The air conditioning system for ventilation, cooling and/or heating of the enclosed cab of a tractor shall comply with the provisions of GB/T 13877.2. Tractors with a power of 220 kW and above shall be equipped with an enclosed cab.

4.1.30 The quality of lubricating oil for tractors shall not be lower than that specified in JB/T 7282.

4.1.31 Components of the tractor's precision transmission and hydraulic system shall

be thoroughly cleaned before assembly. The cleanliness of the hydraulic system and its components shall comply with the requirements of JB/T 12675.

4.1.32 Tractor control symbols shall comply with the provisions of GB/T 4269.1, GB/T