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

GB/T 24644-2022

Replacing GB/T 24644-2009

**Tractors and machinery for agriculture and forestry - Falling
object protective structures - Test procedures and performance
requirements**

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents"

drafted.

This document replaces GB/T 24644-2009 "Test methods and performance requirements for falling object protection devices for agricultural and forestry tractors", and GB/T 24644-

Compared with.2009, except for structural adjustments and editorial changes, the main technical changes are shown in Appendix A.

This document is revised and adopted ISO 27850.2013 "Test Procedures and Performance Requirements for Falling Object Protection Devices for Agricultural and Forestry Tractors".

Compared with ISO 27850.2013, this document has more structural adjustments.

Comparison list of structure number changes between two files

See Appendix B.

The technical differences between this document and ISO 27850.2013 and their reasons are as follows.

--- Change "agricultural tractor" to "agricultural and forestry tractor" (see 3.1), consistent with the terminology used in this document;

--- Replaced ISO 5700.2006, GB/T 7121.2-2008 with normatively cited GB/T 7121.1-2008

ISO 3463.2006 (see 5.1.8, 5.2.1.5), the degree of consistency between documents is to be modified to adapt to the technical conditions of our country, increase

plus operability;

--- Replaced ISO 3471 (see 5.1.8, 5.2.1.5) with the normatively cited GB/T 17922 to adapt to the technical conditions of our country, increase

plus operability;

--- Delete the countries that must carry out low temperature embrittlement test, this clause is not applicable in my country;

--- Replaced ISO 898-1.2009, GB/T 3098.2-2015 with the normatively cited GB/T 3098.1-2010

ISO 898-2.2012 (see C.2), the degree of consistency between documents is to be modified to adapt to the technical conditions of our country and increase the operability.

action;

--- Replaced ASTM A370 (see C.4) with the normatively cited GB/T 229 to adapt to the technical conditions of our country and increase the operability

action;

--- Increase the use of the International System of Units in the test report to comply with the provisions of GB 3100 (see D.1), delete the provisions of the use of other units,

In order to adapt to the technical conditions of our country and increase the operability;

--- Replace ISO 630-1 (see D.3.5, D.4.2) with the normatively cited GB/T 34560.1 to adapt to the technical conditions of our country,

Increase operability.

The following editorial changes have also been made to this document.

--- Replaced ISO 6814 with GB/T 19365 cited for information (see Chapter 1);

--- Changed the "safety area" note, and replaced ISO 3164 with the informative GB/T 17772 (see 3.4);

--- Deleted the informative Appendix C of ISO 27850.2013 Designated Maintenance Organization.

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies test procedures and performance requirements for falling object guards installed on agricultural or forestry tractors.

This document applies to agricultural and forestry tractors with at least two axles mounted with pneumatic tires or tracks instead of tires.

This document does not apply to forestry machinery defined in GB/T 19365.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document.

GB/T 229 Charpy Pendulum Impact Test Method for Metal Materials (GB/T 229-2020, ISO 148-1.2016, MOD)

GB/T 3098.1-2010 Mechanical properties of fasteners Bolts, screws and studs (ISO 898-1.2009, MOD)

Note. There is no technical difference between the quoted content of GB/T 3098.1-2010 and the quoted content of ISO 898-1.2009.

GB/T 3098.2-2015 Mechanical properties of fasteners nuts (ISO 898-2.2012, MOD)

Note. There is no technical difference between the quoted content of GB/T 3098.2-2015 and the quoted content of ISO 898-2.2012.

GB 3100 International System of Units and Its Application

GB/T 7121.1-2008 Strength test methods and acceptance conditions for protective devices of agricultural and forestry wheeled tractors - Part 1.Rear-mounted static

State test method (ISO 5700.2006, MOD)

Note. There is no technical difference between the quoted content of GB/T 7121.1-2008 and the quoted content of ISO 5700.2006.

GB/T 7121.2-2008 Strength test methods and acceptance conditions for guards for agricultural and forestry wheeled tractors - Part 2.Rear-mounted

State test method (ISO 3463.2006, MOD)

Note. There is no technical difference between the quoted content of GB/T 7121.2-2008 and the quoted content of ISO 3463.2006.

GB/T 17922 Laboratory tests and performance requirements for rollover protective structures of earth-moving machinery (GB/T 17922-2014, ISO 3471.

2008, IDT)

GB/T 34560.1 Structural Steel Part 1.General Technical Delivery Conditions for Hot Rolled Products (GB/T 34560.1-2017, ISO 630-1.

2011, MOD)

ISO 12003-1.2021 Rollover protection devices for agricultural and forestry tractors with

narrow track tractors - Part 1.Front-mounted (Tractorsfor
ROPS)

ISO 12003-2.2021 Rollover protection devices for agricultural and forestry tractors with
narrow track tractors - Part 2.Rear mounted (Tractorsfor
ROPS)

3 Terms and Definitions

The following terms and definitions apply to this document.