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

GB/T 7121.1-2008

Replacing GB 7121-1986

**The strength testing method and accepting conditions of the
rear-mounted protective structures on wheeled agricultural and
forestry tractors -- Part 1: Static testing method of rear mounted ROPS**

农林轮式拖拉机防护装置强度试验方法和验收条件 第1部分：后置式静态试验方法

(English Translation)

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Foreword

GB/T 7121 "agricultural and forestry tractors guard strength test method and acceptance conditions" is divided into four parts.

- Part 1. Static testing method of rear;
- Part 2. Rear dynamic test methods;
- Part 3. front-static test methods;
- Part 4. Front Dynamic testing method.

This section GB/T 7121 Part 1.

The partial modification of the use of ISO 5700:2006 "Agricultural and forestry wheeled tractors guard Static test method and acceptance conditions" (English Chinese Version).

This section according to ISO 5700:2006 re-drafted.

Taking into account China's national conditions, in the use of ISO 5700:2006 When the following changes.

- Changed the scope of application;
- Normative documents references to our standards;
- Increasing the elastic deformation measuring device;
- Increasing the crush test side of the device shown in FIG.

These technical differences have been incorporated into the text, and they are involved in terms of the margin of a single vertical line identification.

For ease of use, this section also made the following editorial changes.

- "This International Standard" be replaced by "this section";
- "." --- With a decimal point instead of a comma as the decimal point, "";
- Delete ISO 5700:2006 Foreword;

--- Increase the national standard foreword;

--- Change the standard name.

This Part replaces GB 7121-1986 "agricultural and forestry tractors guard strength test method and acceptance conditions" rear-mounted static Test Methods section, because the development of the original standard international technically obsolete, according to the status change of tractor industry and the market Modifications and additions of the corresponding content. In addition to editorial changes made the revision, but this part of the main changes compared with the GB 7121-1986 as follows.

--- Increased Chapter 2, "Normative references", modify the corresponding reference standard;

--- Increasing the term "agricultural and forestry tractors", "guard";

--- Increased in Chapter 4, "allows the measurement error", the tolerance has been modified;

--- Increasing the symbol "Rao h", "Rao v", "W";

--- To Chapter 6, "Test Equipment" supplement;

--- For dynamic load test weight bearing before the order to distinguish;

--- Longitudinal load and lateral load action point to be modified;

--- To modify the shelter area, and increase two-way traffic tractor working conditions;

--- In the acceptance conditions, the increase in articulated tractors and tractor overturned towards the direction of impact loading content when.

This section of the Appendix A, Appendix B are normative appendix.

This part is proposed by China Machinery Industry Federation.

This part of the National Standardization Technical Committee under the jurisdiction of the tractor.

This section drafted by. National Tractor Quality Supervision and Inspection Center.

1 Scope

This section provides the static test method and acceptance conditions for agricultural and forestry tractors guards.

Objective To test the protective device is to make the possibility of normal operation when the tractor rollover accidents caused by the driver's injuries is minimized.

With analog back or side overturn a tractor (excluding floating drop) is applied to the safety cab or frame to load testing protective devices Strength. This test can check the strength of

the guards and the tractor and the attachment brackets by the load exerted on the carrying device may affect the those strength tractor parts.

This section applies to a pneumatic tire having at least two axes of the tractor, a mass of 800kg ~ 15000kg, the rear wheels should be greater than the minimum tread 1150mm.

2 Normative references

The following documents contain provisions which, through reference to GB/T 7121 to the present, constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 229 metal Charpy pendulum impact test method (GB/T 229-2007, ISO 148-1:2006, MOD) GB/T 700 carbon structural steel (GB/T 700-2006, ISO 630:1995, NEQ) GB/T 3098 (all parts) Mechanical properties of fasteners GB/T 6236 Tractors and machinery for agriculture and forestry seat landmarks (GB/T 6236-2008, ISO 5353:1995, MOD) GB/T 6960.7-2007 Tractor terminology - Part 7. Cab, seat and cover

3 Terms and Definitions

GB/T 6960.7-2007 established in the following terms and definitions apply GB/T 7121 of this section.

At least self-propelled wheeled or tracked vehicles both axes, designed mainly for the following basic agricultural and forestry purposes.

--- Tractor trailer;

--- Carrying, pulling or pushing agricultural and forestry machinery or equipment, and according to need, or traveling in a tractor parked state is supporting Powered equipment.

During normal operation, the possibility that the driver of the tractor due to the incident to minimize harm framework.

Load in working condition quality tractors with add a little oil, water tanks and water tanks, protective equipment and metal cladding normally make