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

GB 10395.22-2010

**Agricultural and forestry machinery -- Safety -- Part 22: Front
loaders**

农林机械 安全 第22部分：前装载装置

(English Translation)

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Foreword

All technical content in this section is mandatory.

GB 10395 "Forestry Machinery Safety" is divided into.

- Part 1. General;
- Part 2. Dump trailer;
- Part 3. manure applicator;
- Part 4. Forest winch;
- Part 5. driven garden equipment;
- Part 6. Equipment for crop protection;
- Part 7. Combine harvesters, forage and cotton harvesters;
- Part 8. Irrigation pumps and crew;
- Part 9. sowing, planting and fertilizing machinery;
- Part 10. hand (micro) tiller;
- Part 11. Power lawn mower;
- Part 12. Portable powered hedge trimmers;
- Part 13. - behind and hand-held lawn trimmers and lawn edge trimmers;
- Part 14. Powered Shredders and shredding machine;
- Part 15. power with rigid cutting means trimmer;

- Part 16. Potato harvester;
- Part 17. Beet harvesters;
- Part 18. traction winch sprinkler hose;
- 19 parts. center pivot irrigation machines, and translation;
- Part 20. pickup balers;
- Part 21. Power ted machines and rakes;
- Part 22. pre-loading device;
- Part 23. Fixed round silo unloader;
- Part 24. Liquid manure fertilization car;

This section is GB 10395 "Agricultural and forestry machinery safety" Part 22, modify the use of EN12525:2000 "Agricultural machinery before loading Device Security "(in English).

This section according to EN12525:2000 redrafted. And EN12525:2000 technical differences are as follows.

--- Cited international standards or European standards our standards, but our standard is not equivalent to international standards or European standards.

For ease of use, this section of EN12525:2000 made the following editorial changes.

- a) "The European Standard" to "this Part";
- b) Remove EN12525:2000 Foreword and Introduction;
- c) modify the EN12525:2000 range;
- d) instead of as a decimal by decimal comma ",", ".,";
- e) Remove the EN12525:2000 Annex ZA "of the relations with the European standard EC Directive";
- f) Remove the EN12525:2000 references.

Appendix A of this section is normative appendix, Appendix B, Appendix C, Appendix D is an informative annex.

This part is proposed by China Machinery Industry Federation.

This part of the National Standardization Technical Committee (SAC/TC201) Agricultural machinery centralized.

This section drafted by. Chinese Academy of Agricultural Mechanization Sciences, Luoyang Tractor Research Institute.

1 Scope

This part of GB 10395 specifies the safety requirements before loading device mounted on the design and manufacture of agricultural and forestry tractors and determination method.

This section gives a lift arm assembly to the mounting bracket on the tractor related risk, as well as working parts fixture fitted to the lifting arm Related risk on; this section does not give the state of danger to the occupants of transport generated.

This section applies to pre-installed on wheeled agricultural and forestry tractors loading device.

2 Normative references

The following documents contain provisions which, through reference in this Part of GB 10395, constitute provisions of this part. 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 10395.1-2009 agriculture and forestry machinery - Safety - Part 1. General (ISO 4254-1:2008, MOD) GB 10396 agricultural and forestry tractors and machinery, lawn and garden equipment - Safety signs and hazard pictorials - General principles (GB 10396-2006, ISO 11684:1995, MOD) GB/T 15706.1-2007 Safety of machinery - Basic concepts, general principles for design - Part 1. Basic terminology, methodology (ISO 12100-1.

2003, IDT)

GB/T 15706.2-2007 Safety of machinery - Basic concepts, general principles for design - Part 2. Technical principles (ISO 12100-2.

2003, IDT)

GB/T 20791 agricultural and forestry tractors external equipment controls brackets and apertures (GB/T 20791-2006, ISO 8935:1990, IDT) GB 23821-2009 Safety of machinery - Safety distances to prevent danger zones being reached on the lower limbs (ISO 13857:2008, IDT) ISO 10448 agricultural machinery tractor hydraulic pressure Safety EN982 Safety of machinery for fluid power systems and their components - Hydraulics

3 Terms and Definitions

GB/T 15706.1 and GB/T 15706.2 and established the following terms and definitions apply to this section.

Prior to loading apparatus frontloader Fixed by the lift arm and locking means consisting of a tractor mounting bracket, and with a variety of mounting means allowable working with separable parts Unloading means, shown in Figure 1.

Xu allowable attachment with working parts Factory assembly approved before the work loading device-specific components used (and tractors) on.

Support means supporting device Front loading apparatus after removal from the tractor, it means supporting the lift arm in a steady state.

NOTE: Store example by supporting means, shown in Figure 1.

Prior to loading the device manually operable mechanism manual control of the front loader and provided with front loading apparatus, the tractor driving position in front of the loading device can be operated work member and the steering device.

- 1 --- working parts;
- 2 --- working parts fixtures;
- 3 --- lifting arm;
- 4 --- support means;
- 5 --- locking means;
- 6 --- tractor mounting bracket.

Figure 1 Front loading device

4 Safety requirements and/or measures

Front loading design means danger not covered by this section shall follow GB/T 15706.1 and GB/T 15706.2 specified principles.

Subject to the provisions of this section, the pre-loading device shall comply with GB 10395.1 and GB 23821-2009 Table 1, Table 3, Table 4 or 6 Provisions.

Mounting means on the tractor front loader 4.1

4.1.1 Intended use

Prior to loading the device manufacturer should be based on the intended use of the tractor-specific parameters and technical performance of the unit, explained before loading device for safety Mounted use on what type of tractor.

4.1.2 Stability before loading device/tractor unit

Stability before loading device/tractor unit depends on the working parts of the operating range and capacity, front loading apparatus cloth on tractor Position and type of tractor.