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

中华人民共和国国家标准

GB 10395.1-2009

Replace GB 10395.1-2001

**Agricultural and forestry machinery—Safety—
Part 1: General requirements**

农林机械 安全 第 1 部分：总则

(ISO 4254-1: 2008, MOD)

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China**

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Foreword

All text of this part are mandatory.

GB 10395 *Agricultural and forestry machinery—Safety* divided into:

- Part 1: General requirements;
- Part 2: Trailers with tipping body;
- Part 3: Manure spreaders;
- Part 4: Forestry winches;
- Part 5: Power-driven soil-working equipment;
- Part 6: Equipment for crop protection;
- Part 7: Combine harvesters, forage and cotton harvesters;
- Part 8: Irrigation pumps and machines;
- Part 9: Equipment for sowing, planting and distributing fertilizer;
- Part 10: Walk-behind powered rotary tillers;
- Part 11: Power lawn mower;
- Part 12: Portable powered hedge-trimmers;
- Part 13: Powered walk-behind and hand-held lawn trimmers and lawn edge trimmers;
- Part 14: Powered shredders and chippers;
- Part 15: Powered edgers with rigid cutting means;
- Part 16: Portable hand-held combustion engine driven brush cutters and grass trimmers;
- Part 17: Beet harvesters;
- Part 18: Reel machines for irrigation;
- Part 19: Centre pivot and moving lateral types irrigation machines;

- Part 20: Pick-up balers;
- Part 21: Tedders and swath rakes with powered tools;
- Part 22: Front loaders;

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This part is the first part of GB 10395 Agriculture and Forestry Mechanical Safety and the reversion is made according to First Part of Agriculture and Forestry Mechanical Safety: General Rules (English version).

This part is drafted again according to ISO 4254-1:2008 and the technical differences with ISO 4254-1:2008 are as below:

- Adjust properly the standard application range;
- Quote national standard adopting international standard, but national standard is not exactly same with international standard.

In order to be used, some editorial reversions of ISO 4254-1:2008 are made in this part:

- “This part of ISO 4254” is changed to “this part of GB 10395” or “this part”;
- The preface of ISO 4254-1:2008 is deleted;
- The decimal point “.” is used to replace the comma “,” as the decimal point.

This part is revised from GB 10395.1-2001 and the main changes compared with GB 10395.1-2001 are as below:

- Preface is added;
- Terms and definition (clause 3) are added;
- Vibration requirements (4.3) are added.
- Related human ergonomics requirements are added (4.4.6 and 5.1.2.2) ;
- Related transmission mechanism requirements of mechanical power between self-propelled machinery/tractor and driven machinery are added (6.4) ;

- Safety requirements of operating mechanism, operator working position and ladder are detailed (clause 5 and 6) ;
- Judgments of safety requirements and/or measures are added (clause 7);
- Application information requirements are detailed (clause 8);
- Major hazards list is added (appendix A);
- Noise requirements and test standards are added (4.2 and appendix B);
- Protective device strength experiment is added (appendix C);
- Clause 3, 4, 5 and 7 are deleted from GB 10395.1-2001.

Annex B and C of this part are normative annex, annex A is informative annex.

This part is proposed by China Machinery Industry Federation.

This part is under the jurisdiction of National Technical Committee (SAC/TC 201) on Agricultural Machinery of Standardization Administration of China.

The responsible drafting organizations of this part are China Mechanised Agriculture Science Research Center and National Agricultural Implements Quality, Supervision and Inspection Center.

The chief drafting staff of this part includes Zhang Xiansheng, Chen Junbao, Huang Caijin and Zhang Qi.

This part replaces the following historical editions issued:

- GB/T 10395.1-2001.

Introduction

The structure of safety standards in the field of machinery is as follows.

- a) Type-A standards (basic standards) give basic concepts, principle for design, and general aspects that can be applied to machinery;
- b) Type-B standards (generic safety standards) dealing with one or more safety aspect(s) or one or more type(s) of safeguards that can be used across a wide range of machinery:
 - type-B1 standards on particular safety aspects (e.g. safety distances, surface temperature, noise);
 - type-B2 standards on safeguards (e.g. two-hand controls, interlocking devices, pressure sensitive devices, guards);
- c) Type-C standards (machinery safety standards) dealing with detailed safety requirements for a particular machine or group of machines.

This part is a type-C standard as stated in GB/T 15706.1-2007.

When provisions of this type-C standard are different from those which are stated in type-A or type-B standards, the provisions of this type-C standard take precedence over the provisions of the other standards for machines that have been designed and built according to the provisions of this type-C standard.

The machinery concerned and the extent to which hazards, hazardous situations and events are covered are indicated in the scope of this part of GB 10395. These hazards are specific to self-propelled ride-on, trailed, semi-mounted and mounted agricultural machines.

Agricultural and forestry machinery—Safety—

Part 1: General requirements

1 Scope

This part of GB 10395 specifies the general safety requirements and their verification for the design and construction of self-propelled ride-on machines and mounted, semi-mounted or trailed machines used in agriculture. In addition, it specifies the type of information on safe working practices (including residual risks) to be provided by the manufacturer.

This part deals with significant hazards (as listed in Annex A), hazardous situations and events relevant to this agricultural machinery used as intended and under the conditions foreseen by the manufacturer (see Clause 4).

This part is not applicable to environmental hazards, road safety, electromagnetic compatibility, or to the power take-off (PTO) drive shaft; neither is it applicable to moving parts for power transmission except for strength requirements for guards and barriers (see 4.7), nor to vibration except in respect of declarations. It is not applicable to hazards related to maintenance or repairs to be carried out by professional service personnel.

This part of GB 10395 is applicable to agricultural and forestry machinery, lawn and garden power machinery.

All of the hazards dealt with by this part of GB 10395 will not necessarily be present on a particular machine. For any machine covered by this part of GB 10395, the provisions of the part directly applicable to that type of machine, if available, take precedence over the provisions of this part of GB 10395.

2 Normative references

The articles contained in the following documents have become this part of GB 10395 when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this part.

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