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

GB 24383-2009

**Agricultural and forestry machinery -- Inter-row mowing units --
Safety**

农林机械 行间割草装置 安全
(English Translation)

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3.3,5.3a)

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Foreword

All technical contents of this standard is mandatory.

This modification uses standard EN13448:2001 "inter-row agricultural machine mowing device safe" (in English).

This standard is based on EN13448:2001 redrafted.

Taking into account China's national conditions, adopted in EN13448:2001, the following changes were.

--- references of standards adopted international standards or European standards, but our standard is not equivalent to international standards or European standards;

--- deleted EN13448:2001 Annex ZA "For relationship with EC Directive of the European." these technical differences have been incorporated into the body of the blank and with a single vertical line on the page identified terms to which they refer edges.

For ease of use, this standard also EN13448:2001 made the following editorial changes.

--- "This European standard" to "this standard";

"," --- replaced by a decimal comma ",";

--- delete EN13448:2001 Foreword.

Appendix A of this standard is normative.

The standard proposed by China Machinery Industry Federation.

This standard by the National Standardization Technical Committee of Agricultural Machinery.

Drafted. Chinese Academy of Agricultural Mechanization Sciences, National Center for Quality Supervision and Inspection farm machinery.

Introduction

This standard class C standard GB/T 15706.1-2007 predetermined.

It gives a scope of this standard relates to the type of machine or device-specific and the elimination method of the degree of danger is reduced between the mowing line.

GB/T 15706 relates to all agricultural machinery (self-propelled, suspended, semi-mounted and trailed machine) in common hazard.

If a predetermined category A and class C present a predetermined standard or a standard class B is not the same, according to the design and manufacturing standards for this class of C Machine, should the provisions of this priority class C standard.

Device security line between agriculture and forestry machinery mowing Range 1 this standard specifies the inter-row vertical pivotally mounted on the agricultural, forestry and horticultural mower (e.g., a flail mower) provided mowing device Design, manufacture safety requirements and test methods.

This standard gives a method of reducing or eliminating hazardous mowing apparatus using inter-line.

This standard also specifies the type of security operation information to be provided by the manufacturer.

This standard does not apply to a rotary flail mower and a predetermined EN745.

This standard does not consider environmental factors.

2 Normative references

Terms of the following documents become provisions of this standard by reference in this standard. For dated reference documents, all later Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to agreements based on this standard Whether the latest versions of these documents. For undated references, the latest version applies to this standard.

GB 10395.1-2009 forestry machinery - Safety - Part 1. General (ISO 4254-1:2008, MOD)
GB 12265.1-1997 Safety of machinery - Safety distances to prevent danger zones of the upper limbs (eqvEN294.1992) GB/T 15706.1-2007 basic concepts of mechanical safety and General Design - Part 1. Basic terminology and methods (ISO 12100-1:2003, IDT)
GB/T 15706.2-2007 basic concepts of mechanical safety and General Design - Part 2. Technical Principles (ISO 12100-2.

2003, IDT)

JB/T 3249 and the shroud construction machinery guards (JB/T 3249-1991, eqv ISO 3457. 1986) EN745 agricultural machinery flail mowers and rotary mowers

3 Terms and Definitions

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

A pivot arm having upright with mowing means for the area between two adjacent obstructions (such as trees, piles and the like) for cutting Grass job (see Figure 1).

Mowing means parallel to the ground so that lateral movement means for the area between two adjacent obstacle, not fixed mower Mowing operation is completed (see FIG. 1).

Means mounted between the front row mowing, controlling the movement of the swing arm means.

NOTE: The sensor may be a metal link type, encountered when the obstacle is pushed back, the sensor sends instructions cause the swing arm is retracted. Once around the obstacle, the sensing is then restored to its original state, the position of the swing arm back to work.

Mower thrown object recording apparatus means the number of impact.

Mowing means in the central circular area in the center of the radius of 50m.

1 --- blade guard;

2 --- side guard.

FIG mowing apparatus 1 between the lines

4 Schedule of Hazards

GB/T 15706.1, GB/T 15706.2 listed hazardous and dangerous to apply this standard relates to the risk of the machine see Appendix A List table. Appendix A also gives the list of dangerous risk not covered by this standard.

And/or safety requirements measures 5

5.1 General requirements

Mowing device shall comply with the provisions of this chapter safety requirements and/or measures. Further, the design of mowing apparatus of the present standard does not relate to the the risk should follow GB T 15706.1, principle/GB/T 15706.2 specified.

Except otherwise specified in the present standard, it should be consistent with mowing means GB 10395.1, GB 12265.1-1997 Table 1, Table 3, Table 4, Table 6, and EN745 regulations.

5.2 Cutting guard member

Mowing device should be installed completely cover the cutting member imperforate blade guard, the guard should ensure the safety of the cutting member outer track Distance is at least 50mm, and a rotating disk tip plane should exceed at least 3mm (see Figure 2).

The blade guard should be no sharp corners and sharp edges projections, the mechanical design of the swing arm should be capable of idling mowing member encounters an obstacle, such that mowing Rotational movement of the member is not transmitted to the blade guard.

The blade guard and ensure protection of machine parts should be able to withstand the vertical downward load 1200N. Further, as the blade anti Guard hits an obstacle capable of withstanding the force generated, they should be able to withstand the horizontal loads following.