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

GB/T 39832-2021

**Gardening machinery - Powered material-collecting systems -
Safety**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

The translation method used in this standard is equivalent to ISO 21628.2008 "Safety of Garden Machinery Material Power Collection Device".

The Chinese documents that have a consistent correspondence relationship with the normatively cited international documents in this standard are as follows.

GB/T 1593-2015 Agricultural wheeled tractor rear-mounted three-point suspension device 0, 1N, 1, 2N, 2, 3N, 3, 4N and 4 categories

(ISO 730.2009, MOD)

GB/T 3766-2015 General rules and safety requirements for hydraulic transmission systems and their components (ISO 4413.2010, MOD)

GB/T 9480-2001 Rules for the compilation of manuals for agricultural and forestry tractors and machinery, lawn and garden power machinery (eqv, ISO 3600.1996)

GB 10396-2006 General rules for safety signs and hazard graphics for agricultural and forestry tractors and machinery, lawn and garden power machinery (ISO 11684.1995, MOD)

GB/T 16855.1-2018 Safety-related components of machinery safety control system Part 1.General design rules (ISO 13849-1.

2015, IDT)

GB/T 20343-2016 The connecting device of agricultural tractors and machinery three-point suspension implements The clearance range around the implements

(ISO 2332.2009, IDT)

This standard was proposed by the China Machinery Industry Federation.

This standard is under the jurisdiction of the National Agricultural Machinery Standardization Technical Committee (SAC/TC201).

This standard was drafted. China Academy of Agricultural Mechanization Sciences, Jiangsu University, Zhejiang Danong Industrial Co., Ltd.

Introduction

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

- 1) Type A standards (safety basic standards), giving the basic concepts, design principles and general characteristics applicable to all machinery.
- 2) Class B standard (safety general standard), involving one (or more) safety features or one (or more) types of machinery with a wide range of use

The safety protection device.

---B1 category, specific safety features (such as safety distance, surface temperature and noise) standards;

---B2 category, safety devices (such as two-hand control devices, interlocking devices, pressure-sensitive devices and protective devices) standards.

- 3) Type C standards (mechanical safety standards), which involve detailed safety requirements for a specific machine or a group of machines.

This standard belongs to the Type C standard specified by ISO 12100-1.

If the provisions of this Type C standard are different from those of the Type A or Type B standards, the design and manufacturing shall be carried out in accordance with the provisions of this Type C standard.

If the machine is installed, the provisions of this C-type standard shall be implemented in priority.

The scope of this standard gives the machinery involved and the degree of danger, dangerous state and dangerous event. Power collection of materials

The dangers of the collection device are clear.

Safety of material power collection device for gardening machinery

1 Scope

This standard gives the safety requirements for the design and structure of material power collection devices used for agriculture, horticulture and regional maintenance (landscaping).

Summation method. This standard applies to suspended, semi-suspended or traction machinery for gardening.

This standard specifies methods for eliminating and reducing mechanical hazards when the material collection system is used as intended.

This standard does not involve environmental hazards, road safety, electromagnetic compatibility, power output shafts (PTO), power output drive shaft protection devices or Control requirements.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article

Pieces. For undated reference documents, the latest version (including all amendments) is applicable to this document.

ISO 730-1 Rear-mounted three-point suspension for agricultural wheeled tractors-Part 1.Categories 1, 2, 3 and 4 (Agricultural

wheeledtractors-Rear-mountedthree-pointlinkage-Part 1.Categories1,2,3and4)

ISO 2332 The gap range on the coupling device of the three-point suspension implements of agricultural tractors and machinery (Agricultural

tractorsandmachinery-Connectionofimplementsviathree-pointlinkage-Clearancezonearound implement)

ISO 3600 Rules for the compilation of manuals for agricultural and forestry tractors and machinery, lawn and garden power machinery (Tractors, machinery

foragricultureandforestry,poweredlawnandgardenequipment-Operator'smanuals-Contentand

presentation)

ISO 4413 General rules for hydraulic transmission systems (Hydraulicfluidpower-Generalrulesrelatingtosys-

tems)

ISO 11684 Agriculture and forestry tractors and machinery, lawn and garden power machinery safety signs and general rules for hazard graphics (Tractors,

machineryforagricultureandforestry,poweredlawnandgardenequipment-Safetysignsandhazard

pictorials-Generalprinciples)

ISO 12100-1:2003 General Principles of Mechanical Safety Basic Concepts and Design
Part 1. Basic Terms and Methods (Safety of ma-

chinery- Basic concepts, general principles for design- Part 1. Basic terminology, methodology)

ISO 13849-1 Safety related components of machinery safety control system Part 1. Design
general (Safety of machinery-

Safety-related parts of control systems- Part 1. General principles for design)

ISO 13852:1996 Safety distance of machinery to prevent upper limbs from reaching the
danger zone (Safety of machinery- Safety dis-

tance to prevent danger zones being reached by the upper limbs)

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Material-collecting system

A suspended, semi-suspended or towed machine that uses a fan to generate a vacuum to
collect grass and leaves.