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GB/T 25396.1-2025

Replacing GB/T 25396-2010

Agricultural machinery - Thrown-object test and acceptance criteria - Part 1: Rotary mowers

农业机械 抛出物试验和验收规范 第1部分：旋转式割草机

(English Translation)

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Preview: page 1 of 5 shown, 27 in the full document. Complete English PDF, instant download:
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Table of Contents

Preface
Introduction
1 Scope
2 Normative references
3 Terms and Definitions
4 Projectile test
4.1 Test conditions
4.2 Target Plate
4.3 Test materials
4.4 Test conditions
4.5 Test procedures
4.6 Test results and reports
4.7 Acceptance Rules
Appendix A (Informative) Lawn Mower Example
A.1 This document covers lawn mowers
A.2 Lawn mowers not covered by this document
Appendix B (Normative) Test Report on Throwouts from Rotary Mowers
Reference

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is Part 1 of GB/T 25396 "Test and Acceptance Specification for Throwable Objects of Agricultural Machinery".

The following two parts have been published.

--- Part 1: Rotary lawn mowers;

--- Part 2: Flail mowers.

This document partially replaces GB/T 25396-2010 "Agricultural machinery rotary and flail mowers - throwable objects test and acceptance test Compared with GB/T 25396-2010, in addition to structural adjustments and editorial changes, the main technical changes are as

Preview: page 2 of 5 shown, 27 in the full document. Complete English PDF, instant download:
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follows.

a) The "Scope" has been changed (see Chapter 1, Chapter 1 of the 2010 edition);

b) Added the terms and definitions of "trip" and "test" (see Chapter 3);

c) The term "straw board" was changed to "slat collecting device" and the definitions of the terms "kraft paper" and "impact" were changed (see Chapter 3, 2010 Chapter 3 of the 2011 edition);

d) The requirement for the length of the target plate extending into the lower area has been deleted (see 4.2.1 of the 2010 edition);

e) Added Figures 1 and 2 (see 4.2.2);

f) The height of the partition frame has been changed (see 4.2.2.3, 4.2.1 of the 2010 edition);

g) Added the applicable conditions of partition 5 in the operator area of rotary mowers, and added the applicable conditions of traction and semi-mounted rotary mowers the requirements for the partition 5 of the machine are increased, and the layout of the partitions 5, 7a, and 7b in the operator area of the rotary mower when the narrow tractor is pulled is increased.

For layout and dimensions, Figure 3b) and Table 2 (see 4.2.3) were added;

h) Changed the dimensions and ground clearance of the partitions 5, 7a, 7b in the operator area of the rotary mower when towed by a standard tractor.

Figure 3a) and Table 1 (see 4.2.3, 4.2.2 of the 2010 edition);

i) Changed Figure 4 and the position requirements for the side-mounted rotary mower partitions 1 and 4 mounted on the tractor's rear three-point hitch (see 4.2.4, 4.2.3 of the 2010 edition);

j) Changed Figure 5 to modify the use of the upright rotary mower baffles 7a and 7b mounted on the tractor's rear three-point hitch.

Conditions and location requirements of 1a and 1b (see 4.2.5, 4.2.4 of the 2010 edition);

k) Figure 6 has been modified (see 4.2.6, 4.2.5 of the 2010 edition);

l) Changed Figure 7 to change the position requirements of partitions 1 and 4 for trailed and semi-mounted rotary mowers (see 4.2.7, 2010 edition).

4.2.6);

m) Figure 8 has been modified to change the position of the partition 1 of the towed rotary mower that can be mounted on the right, middle or left side of the tractor.

Installation requirements (see 4.2.8, 4.2.7 of the 2010 edition);

Preview: page 3 of 5 shown, 27 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/gb-t-25396-1-2025

n) Figure 7 of the 2010 edition has been deleted (see 4.4.1 of the 2010 edition);

o) Deleted the principles for handling impact points in special circumstances (see 4.5 of the 2010 edition);

p) Figure 10 has been modified (see 4.5, 4.4.2 of the 2010 edition);

q) Added the test result recording method and test report requirements (see 4.6);

r) The acceptance rules have been changed (see 4.7, 4.6 of the 2010 edition);

s) Added Appendix B (Normative) Test Report on Throwable Objects from Rotary Mowers.

This document is modified to adopt ISO 17101-1:2012 "Agricultural machinery throwable objects test and acceptance code Part 1: Rotary mowing machine".

This document has the following structural adjustments compared to ISO 17101-1:2012.

---3.2 corresponds to 3.3 in ISO 17101-2:2012, and the title number of the same level clause is postponed;

--- Added the title of 4.1.1.1, 4.1.1.2 corresponds to 4.1.1.1 in ISO 17101-2:2012, and 4.1.1.3 corresponds to ISO 17101-2.4.1.1.2 in 2012;

--- Added the title of 4.2.1, and the title numbers of the same level articles are postponed accordingly.

The technical differences between this document and ISO 17101-1:2012 and their reasons are as follows.

--- Deleted the term "flail mower" (see Chapter 3);

--- Added the requirement of "adjust the mower according to the instruction manual so that it can work normally" (see 4.1.1.1) to improve the test safety.

All-encompassing;

--- The normative reference GB/T 451.2 replaces ISO 536, GB/T 454 replaces ISO 2758, and GB/T 455 replaces ISO 1974:2012 (see 4.2.2.1) to adapt to my country's technical conditions and increase operability;

--- Changed the position requirements for the partition 4 of the side-mounted rotary mower mounted on the rear three-point hitch of the tractor (see 4.2.4) to Improve trial safety;

--- Changed the position requirements of the partitions 1a and 1b of the upright rotary mower mounted on the tractor's rear three-point hitch (see 4.2.5) to improve the safety of the test;

--- Changed the position requirements of partitions 1 and 4 for towed and semi-mounted rotary mowers (see 4.2.7) to improve test safety;

Preview: page 4 of 5 shown, 27 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/gb-t-25396-1-2025

--- The normative reference GB/T 3871.3 replaces ISO 789-1:1990 (see 4.4.1) to adapt to my country's technical conditions and increase Increase operability.

The following editorial changes have been made to this document.

--- Replaced ISO 4254-13 with the informative reference GB/T 10395.26 (see Chapter 1);

--- Replaced ISO 4254-12 with the informative reference GB/T 10395.25-2020 (see 3.1);

--- Added a note to "sand saturation moisture content" (see 4.3.2).

Introduction

As a key equipment in agricultural production, the safety and reliability of agricultural mowers not only directly affect the life and property of operators, but also directly affect the safety and reliability of agricultural mowers.

Safety is more related to the overall improvement of agricultural production efficiency. During the operation of the lawn mower, the high-speed cutting element may Foreign objects such as debris are thrown out, posing a potential threat to the operator and the surrounding environment. To ensure the safe use of the lawn mower, a scientific and standardized throwing Product testing and acceptance criteria are particularly important.

Agricultural machinery lawn mowers include rotary lawn mowers and flail lawn mowers. The ejection test methods and acceptance specifications have both commonalities and differences.

In order to specify the test and acceptance standards for the thrown objects of different types of lawn mowers, the test and acceptance standards for the thrown objects of lawn mowers are divided into two categories.

part.

--- Part 1: Rotary mowers. The purpose is to specify the test conditions, methods and procedures for the thrown objects test of agricultural machinery rotary mowers.

Methods, contents and acceptance criteria.

--- Part 2: Flail mowers. The purpose is to specify the test conditions and methods for the thrown objects test of agricultural machinery flail mowers.

Methods, contents and acceptance criteria.

Specification for testing and acceptance of thrown objects from agricultural machinery Part 1: Rotary lawn mowers

Preview: page 5 of 5 shown, 27 in the full document. Complete English PDF, instant download:
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