

ICS 65.060.50
CCS B 91



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

GB/T 25396.2-2025

Replacing GB/T 25396-2010, GB/T 25396-2010

**Agricultural machinery - Thrown-object test and acceptance
criteria - Part 2: Flail mowers**

农业机械 抛出物试验和验收规范 第2部分：甩刀式割草机

(English Translation)

Issued on: August 1, 2025

Implemented on: February 1, 2026

**Issued by: State Administration for Market Regulation, Standardization
Administration of China**

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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 2 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

follows.

- a) The "Scope" has been changed (see Chapter 1, Chapter 1 of the 2010 edition);
- b) Added requirements for the test ground coconut palm mat, sand layer and moisture content (see 4.1.2.2 to 4.1.2.4);
- c) The height of the partition frame has been changed (see 4.2.2.3, 4.2.1 of the 2010 edition);
- d) The position of the partition marking line has been changed (see 4.2.2.4, 4.4.1 of the 2010 edition);
- e) 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);
- f) Added Figures 1 and 2, and added the partition division method (see 4.2.2.4);
- g) Added the applicable conditions for partition 5 in the operator area of flail mowers and the requirements for trailed and semi-mounted flail mowers.

The requirements for partition 5 are increased, and the layout and Dimensions, added Figure 3b) and Table 2 (see 4.2.3);

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

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

- i) Added a mark indicating that the position of the partition 4 of the side-mounted flail mower attached to the tractor's rear three-point hitch should be adjusted accordingly Line requirements (see 4.2.4);
 - j) Changed Figure 4 and the position requirements for the side-mounted flail mower partitions 1 and 4 on the tractor's rear three-point hitch (see 4.2.4, 4.2.3 of the 2010 edition);
 - k) Modified Figure 5 to change the use of the upright flail mower partitions 7a and 7b on the tractor's rear three-point hitch.
- Conditions and location requirements for partitions 1a and 1b (see 4.2.5, 4.2.4 of the 2010 edition);
- l) Deleted the relevant requirements for self-propelled lawn mowers (see 4.2.5 of the 2010 edition);
 - m) Figure 6 has been modified (see 4.2.6, 4.2.5 of the 2010 edition);
 - n) Changed Figure 7 to modify the position requirements for partitions 1 and 4 for trailed and semi-mounted flailing mowers (see 4.2.7, 2010 edition).

4.2.6);

o) Added the requirement that the marking line should be adjusted accordingly when the position of the partition 4 of the trailed and semi-mounted flail mowers changes (see 4.2.7);

p) The position of the partition of the added trailed flail mower that is mounted on the right, middle or left side of the tractor should be adjusted accordingly Requirements for marking lines (see 4.2.8);

q) Changed Figure 8 to change the position of the partition 1 of the towed flail 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);

r) Figure 7 of the 2010 edition has been deleted (see 4.2.7 of the 2010 edition);

s) The central zone test acceptance rules have been modified, and the handling principles for impact points under special circumstances have been deleted (see 4.7.3, 4.5 of the 2010 edition);

t) The material pile height for the flail mower ejection test has been changed (see 4.3.3, 4.4.2 of the 2010 edition);

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

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

w) The acceptance rules for flail mowers have been modified (see 4.7, 4.6 of the 2010 edition);

x) Added Appendix B (Normative) Test Report on Throwable Objects from Flail Mowers.

This document is modified to adopt ISO 17101-2:2012 "Agricultural machinery throwable objects test and acceptance code Part 2: Flail mowing machine".

This document has the following structural adjustments compared to ISO 17101-2:2012.

---3.1 corresponds to 3.2 in ISO 17101-2:2012;

--- 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 17101-2:2012 and their reasons are as follows.

--- Added normative reference GB/T 25396.1 (see Chapter 3) to adapt to my country's technical conditions and increase operability;

- Deleted the term "rotary mower" (see Chapter 3);
- Added the requirement of "adjusting the mower according to the instruction manual so that it can work normally" (see 4.1.1.1) to improve the safety of the test;
- Deleted the requirements for the determination of the compression properties of coconut palm mats (see 4.1.2.2) to ensure operability;
- 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 names of Figure 2 and Figure 2a) (see 4.2.2.4) to ensure consistency between the figure and the text;
- Changed the position requirements of the side-mounted flail mower partition 4 on the tractor's rear three-point hitch (see 4.2.4) to improve the test Test safety and accuracy;
- Changed the position requirements of the partitions 1a and 1b of the upright flail mower mounted on the tractor's rear three-point hitch (see 4.2.5) to improve test safety and accuracy;
- Added front mounted flail mower partitions 2 and 4. When the flail mower size needs to be increased in length, the partitions 3a and 3b Position requirements (see 4.2.6) to improve test safety and accuracy;
- Changed the position requirements of partitions 1 and 4 for towed and semi-mounted flail mowers (see 4.2.7) to improve test safety and accuracy;
- 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 4254-12:2012 with the informative reference GB/T 10395.25-2020 (see 3.1);
- Added a note to "test surface saturation point" (see 4.1.2.4);
- 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