

ICS 65.060.50
CCS B 91



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

GB/T 10394.3-2025

Replacing GB/T 10394.3-2002

**Equipment for harvesting - Forage harvesters - Part 3: Test
methods**

收获机械 饲料收获机 第3部分：试验方法

(English Translation)

Issued on: October 31, 2025

Implemented on: May 1, 2026

Issued by: State Administration for Market Regulation

Table of Contents

- Foreword
- Introduction
- 1 Scope
- 2 Normative references
- 3 Terms and Definitions

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is Part 3 of GB/T 10394 "Harvesting Machinery - Forage Harvesters". GB/T 10394 has the following parts published.

- Part 1: Terminology;
- Part 2: Technical Features and Performance;
- Part 3: Test Methods;
- Part 4: Safety and Operational Performance Requirements.

This document supersedes GB/T 10394.3-2002 "Forage Harvesters - Part 3: Test Methods" and is consistent with GB/T 10394.3-2002.

Compared to previous versions, aside from structural adjustments and editorial changes, the main technical changes are as follows.

- a) Change the term "reference machine" to "comparison prototype" (see 3.2, 2002 edition);
- b) The term and definition of "productivity" have been removed (see 3.5 in the 2002 edition);
- c) The term and definition of "required dedicated power" have been removed (see 3.8 in the 2002 edition);
- d) The term and definition of "theoretical segment length" have been removed (see 3.9 in the 2002 edition);
- e) The term and definition of "whole grain content" have been removed (see 3.14 in the 2002 edition);

- f) The selection and usage requirements for feed harvesters prior to testing have been changed (see 4.1, 2002 edition 4.1);
- g) The requirements for evaluating the suitability of the manufacture and geometry of feed harvesters have been changed (see 5.3, 2002 edition of 5.3);
- h) Safety and ergonomic requirements have been changed (see 5.5, 2002 edition of 5.5);
- i) The requirements for determining the turning circle diameter have been changed (see 5.6, 2002 edition of 5.6);
- j) The general requirements for specific performance tests have been changed (see 6.1, Chapter 6, Suspension section, 2002 edition);
- k) The requirements for instruments and apparatus used in testing have been changed (see 6.6.1, 6.5 in the 2002 edition);
- l) The requirements for the content of test reports have been changed (see Chapter 7, Chapter 7 of the 2002 edition);
- m) The content on random measurements and observations has been removed (see Appendix A of the 2002 edition).

This document is modified to adopt ISO 8909.3:2021 "Harvesting machinery - Feed harvesters - Part 3: Test methods".

The technical differences between this document and ISO 8909.3:2021, and the reasons therefor, are as follows.

---ISO 3965 (see 5.2) has been replaced with the normatively referenced GB/T 20792 to adapt to my country's technical conditions;

---ISO 730 (see 5.3) has been replaced with the normatively referenced GB/T 1593 to adapt to my country's technical conditions;

---ISO 5675 (see 5.3) has been replaced with the normatively referenced GB/T 5862 to adapt to my country's technical conditions;

---ISO 6489 (see 5.3) has been replaced with the normatively referenced GB/T 19408 to adapt to my country's technical conditions;

---ISO 3600 (see 5.4) has been replaced with the normatively referenced GB/T 9480 to adapt to my country's technical conditions;

---ISO 4254-7 (see 5.5) has been replaced with the normatively referenced GB 10395.7 to adapt to my country's technical conditions;

---ISO 8909-2:2021 (see 5.6) has been replaced with the normatively referenced GB/T 10394.2-2025 to accommodate my country's technical requirements.

condition.

The following editorial changes have been made to this document.

---The sections "Productivity" (see 3.5), "Specific Energy Consumption Requirements" (see 3.8), and "Theoretical Cutting Length" (see 3.9) of ISO 8909-3:2021 have been removed.

3.9) The terms and definitions of "whole grain content" (see 3.14) shall be consistent with the wording in other parts of GB/T 10394;

---References have been removed.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China Machinery Industry Federation.

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

Introduction

GB/T 10394 "Harvesting Machinery - Forage Harvesters" specifies the design, manufacture, and use of self-propelled, suspended, and towed forage harvesters.

The safety requirements, key technical features, operating performance, and work performance requirements, along with corresponding test methods and related terminology, are comprised of the following sections.

constitute.

---Part 1: Terminology. The purpose is to define the terminology and definitions for feed harvesters and their components.

---Part 2: Technical Characteristics and Performance. The purpose is to specify the performance, dimensions, and functional components of the approved feed harvester.

The methods and requirements.

---Part 3: Test Methods. The purpose is to describe the test methods for evaluating the functions and performance of feed harvesters.

---Part 4: Safety and Operational Performance Requirements. The purpose is to specify the safety requirements and operational performance indicators for feed harvesters, and to provide...

Test methods not described in other parts of GB/T 10394.

Harvesting machinery feed harvester Part 3: Test Methods

1 Scope

This document describes test methods for evaluating the functionality and performance of feed harvesters, including direct harvesting and cutting across full width, single row, or multiple rows.

A harvester for cutting crops or collecting the cut crops as feed.

This document applies to feed harvesters that have shredding blades and transport shredded materials to a feed bin, standalone vehicle, or trailer, including overhead conveyors.

Trailer-mounted, towed, or self-propelled feed harvesters.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

GB/T 1593 Rear-mounted three-point suspension devices for agricultural wheeled tractors, categorized as 0, 1N, 1, 2N, 2, 3N, 3, 4N and 4.

(GB/T 1593-2015, ISO 730:2009, MOD) GB/T 5862 General hydraulic quick-connect couplings for agricultural tractors and machinery (GB/T 5862-2020, ISO 5675:2008, MOD) GB/T 8095 Harvesting Machinery - Dimensions of Forage Harvesters (GB/T 8095-2005, ISO 5715:1983, IDT) GB/T 9480 Rules for Writing Instruction Manuals for Agricultural and Forestry Tractors and Machinery, Lawn and Horticultural Power Machinery (GB/T 9480-2001, eqv ISO 3600:1996) GB/T 10394.1-2025 Harvesting Machinery - Forage Harvesters - Part 1: Terminology (ISO 8909-1:2021, IDT) GB/T 10394.2-2025 Harvesting Machinery - Forage Harvesters - Part 2: Technical Characteristics and Performance (ISO 8909-2:2021) MOD) GB 10395.7 Safety Technical Requirements for Agricultural and Forestry Tractors and Machinery Part 7: Combine Harvesters, Forage and Cotton Harvesters (GB 10395.7-2006, ISO 4254-7:1995, MOD) GB/T 19408 (all parts) Mechanical connections between trailers and tractors of agricultural vehicles [ISO 6489 (all parts)] GB/T 20792 Method for determining the maximum speed of wheeled tractors (GB/T 20792-2006, ISO 3965:1990, MOD)