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

GB/T 46299-2025

**Grain and oil machinery - Continuous-flow / batch type
recirculating grain dryer**

粮油机械 连续循环式粮食干燥机

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Standardization Administration of the PRC**

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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. 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 National Food and Strategic Reserves Administration. This document is under the jurisdiction of the National Technical Committee on Standardization of Grain and Oil (SAC/TC270). This document was drafted by: Zhengzhou COFCO Research & Design Institute Co., Ltd., Zoomlion Agricultural Machinery Co., Ltd., and Zhengzhou Wangu Machinery Co., Ltd. Limited Liability Company, Jiangsu Guoliang Storage Engineering Co., Ltd., and COFCO Engineering Science & Technology Yingchun Agricultural and Livestock Machinery (Shandong) Co., Ltd. The main drafters of this document are: Jia Yu, Li Yunke, Li Junwu, Ma Yunxia, Li Jie, Di Kun, Guo Gang, Guo Guixia, Lu Yanmin, Zhang Wei, and Fu Xinyu. Lu Ying, Xia Chaoyong, Yang Wenli, Wang Dan, Xiao Yanmin. Grain and Oil Machinery Continuous Circulation Grain Dryer

1 Scope

GB/T 46299-2025 is the Chinese national standard covering the recirculating dryer - the moisture removed per hour and the energy it costs, the grain temperature that must not be exceeded if the germ and the milling quality are to survive, the tempering between passes, and the fire risk in a hot dusty machine. First edition, in force from 1 May 2026. Issued on 5 October 2025, it has been in force since 1 May 2026.

This document defines the terminology and specifications for continuous circulation grain dryers, and specifies their working principle, models, basic parameters, and technical requirements. Requirements, inspection rules, marking, packaging, transportation and storage requirements, and test methods are described. This document applies to the design, manufacture, and quality inspection of continuous-cycle grain drying machinery.

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 3768 Acoustic pressure method for determining the sound power level and sound energy level of a noise source using a simplified measurement method based on the envelope above the reflecting surface. Easy Method

GB/T 3797 Electrical control equipment

GB/T 5210 Paints and varnishes - Pull-off adhesion test

GB/T 6970 Test Methods for Grain Dryers

GB/T 8196 General requirements for the design and manufacture of fixed and movable protective devices for mechanical safety.

GB 10396 General Rules for Safety Signs and Hazard Symbols for Agricultural and Forestry Tractors and Machinery, Lawn and Horticultural Power Machinery GB/T 13306 Nameplates

GB/T 14095 Technical Terminology for Drying Agricultural Products

GB 19517 National Technical Specification for Safety of Electrical Equipment

GB/T 24342 Test Specification for Continuity of Protective Grounding Circuits for Electrical Equipment of Industrial Machinery

GB/T 24854 General Technical Requirements for Packaging of Grain and Oil Machinery Products

GB/T 24855 General Technical Requirements for the Assembly of Grain and Oil Machinery

GB/T 24856 General Technical Requirements for Castings of Grain and Oil Machinery

GB/T 24857 General Technical Conditions for Plate Parts and Plate-Shaped Steel Components of Grain and Oil Machinery

3 Terms and Definitions

The terms and definitions defined in GB/T 14095 and the following terms and definitions apply to this document.

3.1 A grain dryer that can achieve both continuous and cyclic drying processes according to production process requirements.