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

GB/T 25728-2024

Replacing GB/T 25728-2010

Grain and oil machinery-Pneumatic roller mill

粮油机械 气压磨粉机

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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 replaces GB/T 25728-2010 "Grain and Oil Machinery Pneumatic Mill". Compared with GB/T 25728-2010, except for the structural adjustment, In addition to the integration and editorial changes, the main technical changes are as follows.

- Added basic requirements for the functional safety of mechanical and electrical equipment, pneumatic systems and their components and systems (see 6.1.8, 6.1.9, 6.1.10);
- Changed the mechanical performance requirements (see 6.2.3, 6.2.4, 6.2.7, 6.2.8, 6.2.9, 6.2.10, 6.2.4, 6.2.5, 6.2.6...7, 6.2.8, 6.2.9, 6.2.10, 6.2.4, 6 6.2.8, 6.2.9, 6.2.10, 6.2.11);
- Increased mechanical performance requirements (see 6.2.11, 6.2.12);
- Added control system requirements (see 6.3);
- Added safety requirements (see 6.4.5, 6.4.6, 6.4.7).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was submitted by the State Administration of Grain and Material Reserves.

This document is under the jurisdiction of the National Technical Committee on Standardization of Cereals and Oils (SAC/TC270).

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The previous versions of this document and the documents it replaces are as follows.

- First published in 2010 as GB/T 25728-2010;
- This is the first revision.

1 Scope

This document specifies the working principle, model parameters, technical requirements, inspection rules, marking, packaging, transportation and storage requirements of the air pressure mill.

The corresponding test methods are described.

This document applies to roller pneumatic mills with pneumatic clutch for crushing and grinding grains.

2 Normative references

GB/T 191

GB/T 3768

GB/T 5226.1

GB/T 7932

GB/T 13306

GB/T 15706

GB/T 16754

GB/T 16855.1

GB/T 20438.1

GB/T 24854

GB/T 24855

GB/T 24856

GB/T 24857

GB/T 25218

GB/T 34669

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Clutch engagement-disengagement

The action of separating or closing the two grinding rollers.

3.2 Roller

The working component is composed of a hollow cylindrical roller body made of bimetal centrifugally cast and roller shafts embedded at both ends. The surface of the roller body has certain technical characteristics.