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NATIONAL STANDARD OF THE
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ICS 67.260

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GB/T 25232-2010

Grain and oil machinery - Bran brush

粮油机械 刷麸机

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Issued on: September 26, 2010

Implemented on: March 1, 2011

Issued by: General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China;

Standardization Administration of the People's Republic of China.

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Foreword

Appendix A of this Standard is normative.

This Standard was proposed by the National Food Authority.

This Standard shall be under the jurisdiction of National Grain and Oil Standardization Technical Committee.

Drafting organizations of this Standard: State Grain Reserve Bureau Wuxi Scientific Research and Design Institute, and Jiangdu Xianlong Grain Machinery Co., Ltd.

Main drafters of this Standard: Fang Qun, Xu Yifeng, Chen Hong, and Deng Weiyong.

Grain and oil machinery - Bran brush

1 Scope

This Standard specifies bran brush's working principle, model and basic parameters, technical requirements, test methods, inspection rules and marks, packaging, transportation, and storage requirements.

This Standard applies to vertical-type bran brush [[Translator note: hereafter also known as: brush-bran or brush-bran machine](#)] that processes flake-shaped or crumb-shaped bran in wheat processing.

2 Normative references

The following documents contain provisions which, through reference in this Standard, become provisions of this Standard. For dated references, their subsequent amendments (excluding corrections) or revisions do not apply to this Standard. However, the parties who enter into agreement based on this Standard are encouraged to investigate whether the latest versions of these documents are applicable. For undated reference documents, the latest versions apply to this Standard.

GB/T 191 Packaging-Pictorial marking for handling of goods

GB 2893 Safety colours

GB 5226.1 Electrical Safety of Machinery - Electrical Equipment of Machines - Part 1: General Requirements

GB/T 9239.1-2006 Mechanical vibration - Balance quality requirements for rotors in a constant (rigid) state - Part 1: Specification and verification of balance tolerances

GB/T 9286-1998 Paints and varnishes - Cross cut test for films

GB/T 13306 Plate

GB/T 17248.3 Acoustics - Noise emitted by machinery and equipment - Measurement of emission sound pressure levels at a work station and at other specified positions - Survey method in situ

GB/T 24854 Grain and oil machinery - General specification for product packaging

GBZ 158 Warning Signs for Occupational Hazards in the Workplace

6.1.3 Test instruments, meters and gauges shall comply with relevant provisions of calibration, and they are within the effective use period.

6.1.4 Test voltage is 380 V; the deviation is not more than $\pm 10\%$.

6.1.5 Machine operation and testing, within a same test procedure, shall be operated by the same skilled operator.

6.1.6 Idling test shall be conducted at rated speed; running time is not less than 30 min.

6.2 Mechanical properties

6.2.1 Determination of peeling-resistance of film coating

It shall be executed according to GB/T 9286.

6.2.2 Rotor balancing verification

Rotor balancing verification shall be conducted on a balancing test machine according to requirements of GB/T 9239.1; test report shall be issued by test department or test organization.

6.2.3 Brush-broom mass-difference verification

It shall adopt the electronic weighing scales of which the maximum weighing range is slightly larger than the brush-broom's mass, and display resolution is 1 g; calculate the mass-difference and perform verification.

6.2.4 Determination of bearing temperature and temperature-rise

Before and after the start of the test, use thermometer to measure the surface temperature of each bearing's housing, and calculate the temperature-rise.

6.2.5 Noise determination

It shall be executed according to GB/T 17248.3.

6.3 Determination of general requirements and parameters

If there are reference standards in 5.1, 5.2 and 5.3, verify according to these standards; testing of other requirements shall adopt common method or visual inspection.

7 Inspection rules

7.1 Inspection classification

It is divided into exit-factory inspection and type inspection.

7.2 Exit-factory inspection

8.2.1 It shall be executed in accordance with the provisions of GB/T 24854.

8.2.2 The accompanying files and spare parts shall include:

- Instructions for use;
- Inspection certificate;
- Packing list.

8.2.3 For brush-bran machines that are self-collected by the user, it may adopt without-packaging.

8.2.4 For brush-bran machines that are entrusted by the users to arrange water-transport or ground-transport, the packaging may be conducted according to agreed contract.

8.3 Transport

8.3.1 Transport method can be handled according to the agreement by both parties or normal business practices.

8.3.2 Bare products in transport shall be fixed, and take rain-proof measures.

8.3.3 During transport, the crane loading and unloading shall be conducted in accordance with the graphical symbols on outer packaging.

8.4 Storage

8.4.1 When it is stored indoor, it shall be well ventilated and take moisture-proof measures.

8.4.2 When it stored outdoor, it shall adopt moisture-proof, rain-proof, sun-proof, and wind-proof measures.

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