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

GB/T 37494-2019

Grain and oil machinery - Flakers

粮油机械 轧坯机

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard was proposed by the National Grain and Material Reserve Bureau. This standard is under the jurisdiction of the National Grain and Oil Standardization Technical Committee (SAC/TC270). This standard was drafted. Xi'an COFCO Engineering Research and Design Institute Co., Ltd. The main drafters of this standard. Wei Bing, Bai Yunai, Liu Runmin, Li Wubao. Grain and oil machinery rolling mill

1 Scope

China's national standard for flaking mills used in grain and oil processing. It specifies the terms and definitions, the working principle, the classification, the models and basic parameters, the technical requirements, the test methods and the inspection rules. A flaker passes conditioned oilseed between two smooth counter-rotating rolls pressed together with great force, and turns each particle into a thin flake. That flake is the form in which the seed goes to extraction, and its thickness is the single most important variable in the whole plant. Thinner flakes give a shorter path for solvent to reach the oil and for the miscella to leave, so extraction is faster and the residual oil in the meal is lower - and residual oil is money left in the meal. But flakes that are too thin break into fines, and fines blind the extractor's percolation bed so that solvent channels around it instead of through it. The whole operation is a search for that boundary, and the machine has to hold its roll gap precisely enough to sit near it.

This standard specifies the terms and definitions, working principle, classification, model and basic parameters, technical requirements, test methods and inspection rules of the rolling mill. Requirements for marking, packaging, transportation and storage. This standard is applicable to the roll-type rolling mill for rolling oil into flakes in the oil pretreatment process.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article. Pieces. For undated references, the

latest edition (including all amendments) applies to this document.

GB/T 191 packaging storage and transportation icon

GB/T 3768 Acoustic sound pressure method for the determination of noise source sound power level and sound energy level using the envelope measurement surface above the reflection surface Easy law

GB/T 5226.1 Mechanical electrical safety machinery and electrical equipment - Part 1. General technical conditions

GB/T 8873 Grain and oil terminology

GB/T 9239.1 Mechanical vibration constant (rigid) rotor balance quality requirements - Part 1

GB/T 9239.14 Mechanical vibration rotor balance - Part 14. Assessment procedures for balance error GB/T 13306 signage

GB/T 24854 Grain and oil machinery product packaging general technical conditions General technical conditions for

GB/T 24855 grain and oil machinery assembly General technical conditions for

GB/T 24856 grain and oil machinery castings General technical conditions for

GB/T 24857 grain and oil machinery plate and plate steel components

GB/T 25218 General technical requirements for the coating of grain and oil machinery products NB/T 47003.1 steel welded atmospheric pressure vessel

3 Terms and definitions

The following terms and definitions as defined in GB/T 8873 apply to this document.

3.1 Rolling flaking The process of pressing the oil into a sheet shape by the action of the machine.

3.2 Rolling mill flaker, flaking roll, flaking mill It is mainly composed of two or more rolls that rotate in opposite directions, and is a general term for a machine that is pressed into a sheet shape when the oil passes between the two rolls.

3.3 Roller mill multi-stage flaking roll A pair of rolling mills in which the rolls are arranged horizontally.