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

GB/T 36866-2018

Drag chain extractors

粮油机械 拖链浸出器

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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., Henan University of Technology. The main drafters of this standard. Du Xuanli, Yang Fan, Liang Yuzhu, Tang Jiaxuan, Ma Chuanguo. Grain and oil machinery towline extractor

1 Scope

China's national standard for drag chain extraction equipment. It specifies the terms and definitions, the working principle, the models and basic parameters, the technical requirements, the test methods, the inspection rules and the marking, packaging, transport and storage. The machine is used in solvent extraction of vegetable oil: flaked or expanded oilseed enters at one end of a long enclosed vessel and is dragged slowly along it by a chain and slat conveyor, while solvent percolates down through the moving bed and is collected in stages beneath. The counter-current arrangement is what makes it efficient - the freshest solvent meets the most exhausted material at the discharge end, so the concentration gradient driving the extraction is maintained along the whole length. The result is meal with a very low residual oil content. Because the vessel is full of hot hexane vapour, the machine is also a major explosion hazard, which is why sealing, bearing temperature and drive reliability dominate its requirements.

This standard specifies the terms and definitions, working principle, model and basic parameters, technical requirements, test methods and inspection rules of the towline leaching device. Then, marking, packaging, transportation and storage requirements. This standard applies to the drag chain leaching device (hereinafter referred to as "leacher") used for vegetable oil leaching.

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 150.1 Pressure vessels - Part 1. General requirements

GB/T 150.2 Pressure Vessels Part 2. Materials

GB/T 150.3 Pressure Vessels Part 3. Design

GB/T 150.4 Pressure vessels - Part 4. Manufacture, inspection and acceptance

GB/T 191 packaging storage and transportation icon

GB 5009.3 National Food Safety Standard Determination of Moisture in Foods

GB 5009.6 Food safety national standard Determination of fat in food GB/T 13306 signage

GB 16629 vegetable oil extraction solvent General technical conditions for

GB/T 24854 grain and oil machinery product packaging 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 conditions for the coating of grain and oil machinery

products GBZ 158 workplace occupational hazard warning sign JBJ6-1996 Mechanical

Factory Power Design Procedure LS/T 3543 Vegetable oil leaching equipment acceptance

technical conditions NB/T 47003.1 steel welded atmospheric pressure vessel SBJ04

leaching oil plant fire safety specification

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Chain leaching chainextractor The hopper is continuously leached by the hopper of the frame drag chain conveyor.

3.2 Wet mash content hexancecontentinextractedmeal The solvent in the wet sputum from the leaching device accounts for the mass fraction of the wet sputum.