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

GB/T 26883-2011

Grain and oil machinery - Single screw presses

粮油机械 单螺旋榨油机

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Foreword

This standard Annex A, Annex B normative appendix. The standard proposed by the National Food Authority. This standard by the National Standardization Technical Committee OILS. This standard was drafted. State Grain Reserve Xi'an Oil Research and Design Institute, Hebei Nanpi Machinery Manufacture Co., Ltd. The main drafters of this standard. Wei Bing, Zhuzheng You, Wu Shengping, Pan Xiaoping, Zhou Xun. Grain and oil machinery single screw press

1 Scope

China's national standard for single screw oil presses. It specifies the terms and definitions, the working principle, the classification, the technical requirements, the test methods, the inspection rules and the marking, packaging, transport and storage of the screw expellers used to press oil from oilseeds, and it applies to single screw presses fitted with an insulated steam conditioner. The screw press is the workhorse of oilseed processing. A single continuous screw turns inside a slotted cage, and as the seed advances the volume between the flights decreases and the pressure rises until the oil is squeezed out through the slots and the residue leaves as a cake at the end. It is continuous, it needs little labour, and it recovers most of the oil in one pass - which is why it displaced hydraulic pressing for everything except the speciality oils and why, in a solvent extraction plant, it is still used to pre-press the seed down to an oil content the extractor can handle economically. Everything difficult about the machine follows from the pressures involved. The seed is compressed to hundreds of atmospheres inside the cage, and the friction that develops does the work of heating the material as well as the work of pressing it; the temperature rises steeply, which improves the yield and degrades the oil and the protein in the cake if it goes too far. The screw and the cage bars wear rapidly against an abrasive material at that pressure and are consumable parts. The standard therefore specifies the capacity and the residual oil in the cake, the power consumption, the screw and cage materials and their wear, the adjustment that sets the pressure, the drive and its protection, and the safety, noise and reliability requirements. Issued on 29 September 2011 and in force since 1 December 2011.

This standard specifies the terms and definitions of single screw press, working principle,

classification, technical requirements, test methods, inspection rules, marks, Packaging, transport and storage requirements. This standard applies to insulation steamer comes with a single-screw press.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB 150 steel pressure vessels

GB/T 191 Packaging - Pictorial signs GB/T 1532-2008 peanuts

GB/T 3768 Determination of sound pressure of sound power levels of noise sources using an enveloping surface reflectance measuring surface Simple Method

GB/T 4272 General technical equipment and pipeline insulation

GB 5226.1 mechanical and electrical safety of machinery - Electrical equipment - Part 1. General requirements

GB/T 10359 Determination of oil content in oilseed residues - Part 1. hexane (or petroleum ether) extraction GB/T 11762-2006 rapeseed GB/T 13306 signs

GB/T 24854 grain and oil machinery products packaging technology

GB/T 24855 General technical requirements grain machinery assembly

GB/T 24856 Oil Machinery casting general technical conditions

GB/T 24857 Oil Machinery plates, steel plate member General technical conditions

GB/T 25218 Grain and Oil Painting machinery products general technical conditions GB Z158 workplace occupational hazard warning labels LS/T 3501.2 grain and oil processing machinery - General requirements machining technology requirements LS/T 3501.6 grain and oil processing machinery - General requirements weldment Pressure Vessel Safety Technology Supervision (Zhijijianju pot Fa [1999] No. 154)

3 Terms and Definitions

The following terms and definitions apply to this standard.

3.1 Pre-press pre-pressing For higher oil content of oil press to extract the initial part of the process of squeezing oil.

3.2 Full press oil oil extraction by pressing Oil by one or more continuous squeezing of oil

squeezing process complete.

3.3 Before the first time between failures operatinghourstofirstfailure Refers to the press under normal operating conditions, the press has failed to start work from a spare parts (wearing parts except normal wear and tear) when

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