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**TEXTILE INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

FZ/T 93015-2021

**Rotor type open-end spinning machine
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces FZ/T 93015-2010 "Rotor Spinning Machine". Compared with FZ/T 93015-2010, the main technical changes are as follows.

--- Increased the spinning range of the rotor spinning machine (see Chapter 1, Chapter 1 of the 2010 edition);

---Added the classification according to the driving method and the discharging method (see 3.1, 3.1 in the 2010 edition);

---Adjusted the contents of some important parameters such as the design speed of the rotor (see Table 1, Table 1 of the 2010 edition);

---Increase the reference to the established standards of the spinning device, and adjust the relevant requirements of the spinning device accordingly (see 4.2.1, 4.2.1 of the 2010 edition);

---Adjusted the index of the vacuum degree of each thread-drawing tube orifice of the whole machine (see 4.2.1.2.1, 4.2.1.1 of the 2010 edition);

---Added the requirements for the vacuum degree of each nozzle of the whole machine (see 4.2.1.2.2);

---Adjusted the index of the feed shaft, yarn take-up roller and winding roller face runout (see 4.2.2, 4.2.2 of the 2010 edition);

--- Adjusted the requirements for the temperature rise of the transmission system bearings (see 4.3, 4.3 in the 2010 edition);

---Adjusted the noise index of the whole machine (see 4.4, 4.4 of the 2010 edition);

---Adjusted the power consumption index of the whole machine (see 4.5, 4.5 in 2010 edition);

- The safety requirements for the whole machine have been added (see 4.8);
- Added the central controller should set the network management data communication interface requirements. (See 4.6.2.4);
- According to the above changes, the test methods or test requirements have been adjusted or added (see Chapter 5, Chapter 5 of the 2010 edition);
- Adjusted the inspection rules (see Chapter 6, Chapter 6 of the 2010 edition).

This standard was proposed by the China National Textile and Apparel Council.

This standard is under the jurisdiction of the National Textile Machinery and Accessories Standardization Technical Committee.

Drafting organizations of this standard. National Textile Machinery Quality Supervision and Inspection Center, Zhejiang Titan Co., Ltd., Anhui Rifa Textile Machinery Co., Ltd.

Co., Ltd., Saurer (Jiangsu) Textile Machinery Co., Ltd., Jingwei Intelligent Textile Machinery Co., Ltd., Zhejiang Jinggong Technology Co., Ltd., Suzhou Duodao Automation Technology Co., Ltd., Shengzhou Xinkeyang Machinery Co., Ltd., Wuxi Textile Machinery Quality Supervision and Inspection Center.

1 Scope

This standard specifies the classification and parameters, requirements, test methods, inspection rules and signs, packaging, transportation, and storage of rotor spinning machines.

This standard applies to rotor spinning machines for spinning cotton, wool, linen, chemical fiber and other pure spinning and blending spinning.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article Pieces. For undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T 191 Packaging, storage and transportation pictorial signs GB 2894 Safety signs and guidelines for their use GB/T 5226.1-2019 Electrical safety of machinery Electrical equipment of machinery Part 1: General technical conditions GB/T 7111.1 Textile Machinery Noise Test Specification Part 1: General Requirements GB/T 7111.2 Textile Machinery Noise Test Specification Part 2: Spinning Preparation and Spinning Machinery GB/T 17626.4-2018 Electromagnetic compatibility test and measurement technology Electrical fast transient pulse group immunity test GB/T 17780.2 Textile Machinery Safety Requirements Part 2: Spinning Preparation and Spinning Machinery FZ/T 12001-2015

Rotor spinning cotton natural yarn FZ/T 90001 Textile machinery product packaging FZ/T 90074 Coating of textile machinery products FZ/T 90089.1 Textile Machinery Nameplate Part 1: Type, Dimensions and Technical Requirements FZ/T 90089.2 Textile Machinery Nameplate Part 2: Content FZ/T 93103-2018 Spinner

3.1 Classification

The classification is as follows.

a) According to the rotor type.

---Exhaust type;

---Self-venting type.

b) According to the connection method, it is divided into.

---Manual;

---Semi-automatic;

---Automatic.

c) Divided according to the way of removing impurities.

---Negative pressure type;

---Free fall pose.

d) According to the driving mode.