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

FZ/T 96025-2017

Replacing FZ/T 96025-2008

High speed winder

高速卷绕头 清晰版

(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 96025-2008 "High Speed Winding Head", compared with FZ/T 96025-2008, except for editorial changes.

The technical changes are as follows.

- Modify the scope (see Chapter 1, Chapter 1 of the 2008 edition);
- Modify the parameters (see Table 1, 2008 version of Table 1);
- Modify the contact pressure between the pressure roller and the spindle axis (see 4.1.1, 2008 version 4.1.1);
- Modify the spindle shaft loose time (see 4.1.4, 2008 version 4.1.4);
- Removed spindle and pressure roller operation requirements (2008 version 4.1.5);
- Increased requirements for the continuity of the electrical equipment protection connection circuit (see 4.2.4);
- Increased electrical equipment insulation performance requirements (see 4.2.5);
- Increased requirements for withstand voltage test of electrical equipment (see 4.2.6);
- Removed the pneumatic component requirements (version 4.3.2 of the 2008 edition);
- Increased aerodynamic system requirements (see 4.3.2);
- Modify the temperature rise of the bearing parts of each transmission (see 4.4.3, 4.4.3 of the 2008 edition);
- Increased the temperature rise requirements of each motor bearing (see 4.4.3);
- Modify the whole machine vibration value (see 4.4.4, 2008 version 4.4.4);

- Incorporating the automatic change request (see 4.4.6, 2008 version 4.4.6, 4.4.8);
- Modify the safety requirements for high-speed winding heads (see 4.5.3, 4.5.3 of the 2008 edition);
- Increased energy saving requirements for high-speed winders (see 4.5.4);
- Modify the test method for the parallelism of the installation of the pressure roller and spindle (see 5.2, 2008 version 5.2);
- Delete test methods for pneumatic components (see 5.3, 5.4 of the 2008 edition);
- Increased the test method for the continuity of the electrical equipment protection connection circuit (see 5.3);
- Increased the test method for the insulation performance of electrical equipment (see 5.4);
- Increased electrical equipment withstand voltage test method (see 5.5);
- Modified bearing housing temperature measurement test method (see 5.6, 2008 version 5.5);
- Modify the test method for the effective value of vibration speed (see 5.7, 2008 version 5.6);
- Removed automatic change test method (see 5.8 in 2008 edition);
- Modify the noise measurement test method (see 5.9, see the 2008 version of 5.9);
- Increased test conditions [see 5.11 a), d)];
- Modify the test conditions [see b of 5.11], 2008 version 5.11 a)];
- modified test conditions [see 5.11 c), 2008 version 5.11 b)];
- Increased packaging and storage logo requirements (see 7.1.2).

This standard is proposed by the China Textile Industry Federation.

This standard is under the jurisdiction of the National Textile Machinery and Accessories Standardization Technical Committee (SAC/TC215).

1 Scope

This standard specifies the specifications and main parameters, requirements, test methods, inspection rules, signs, packaging, and transportation of high-speed winding heads.

Storage.

This standard applies to polyester, nylon and other high-speed winding head for the

production of filaments, other related filament winding equipment can also refer to the implementation.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article. For undated references, the latest version (including all amendments) applies to this document.

GB/T 191 packaging, storage and transportation logo GB 5226.1-2008 Electrical equipment for mechanical electrical safety machinery Part 1. General technical conditions GB/T 7932 General Specifications for Pneumatic Systems GB/T 17780.1 Safety requirements for textile machinery - Part 1. General requirements Energy-saving limit value and energy efficiency grade of GB 18613 three-phase asynchronous motor FZ/T 90001 Textile Machinery Packaging FZ/T 90074 Textile Machinery Coating FZ/T 90089.1 nameplates, dimensions and technical requirements for textile machinery FZ/T 90089.2 Nameplate Contents of Textile Machinery FZ/T 99014 General technical specifications for textile machinery electrical equipment

3 Specifications and main parameters

Specifications and main parameters are shown in Table 1.

Table 1 Specifications and main parameters

Project specifications and main parameters Finished yarn density/dtex 8.8~5500
Mechanical winding speed/(m/min) 2500~6000 Spindle length/mm 900~1800 Bore tube inner diameter size/mm $\phi 75$, $\phi 94$, $\phi 110$, $\phi 112$, $\phi 114$, $\phi 120$, $\phi 125$ Traverse type cam shuttle or double rotor type the largest package diameter/mm $\phi 440$

4.1 Winding system

4.1.1

When the winding head is in a static state, the compressed air required for normal operation is introduced, and the contact pressure value between the pressure roller and the spindle shaft can be ensured.