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

GB/T 18737.2-2019

**Textile machinery and accessories -- Beams for winding -- Part
2: Wrapper's beams**

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Foreword

GB/T 18737 ``Textile Machinery and Accessories Warp Beams " is divided into 9 parts.

--- Part 1. Vocabulary;

--- Part 2. Warping beams;

--- Part 3. weaving shaft;

--- Part 4. Quality grades of weaving beams, warping beams and side warping beams;

--- Part 5. Sectional warp beams for warp knitting machines;

--- Part 6. Warp beams for loom and crochet machines;

--- Part 7. sliver, roving and yarn dyeing shafts;

--- Part 8. Definition and measurement method of run-out tolerance;

--- Part 9. Fabric dyeing shaft.

This part is the second part of GB/T 18737.

This part uses the redrafting method to modify and adopt ISO 8116-2..2008 "Textile Machinery and Accessories Warp beams Part 2. Warp beams."

The technical differences between this section and ISO 8116-2..2008 and their causes are as follows.

--- Regarding the normative references, this section has made adjustments with technical differences to adapt to China's technical conditions and the situation of adjustment.

The situation is reflected in Chapter 2 "Regulatory Reference Documents", and the specific adjustments are.

* Replaced ISO 8116-8 with GB/T 18737.8 equivalent to the international standard;

* Replaced ISO 1940-1 with GB/T 9239.1 equivalent to the international standard.

--- Added "This section applies to the production of ordinary warping beams for grey fabrics,

not for dyeing warping beams" (see Chapter 1).

--- Increased the distribution circle diameter $D = 250\text{mm}$ of transmission pin holes, and changed the dimension of dia. 380 in the figure to D (see Table 1, Figure 1).

--- Increased 800mm, 900mm, and 1000mm dimensions of the side disk diameter (d_1); diameter of the shaft extension (d_3) 40mm; side disk spacing

(1) 1400mm, 1600mm type A and B warping beam specifications and sizes, the recommended metric series size is preferred (see Table 1).

--- Increased C-type warp beam specifications for shaft core diameter (d_2) 270mm, shaft extension diameter (d_3) 40mm, shaft hole diameter (d_4) 40mm

Size to suit the needs of our country (see Table 2).

--- In the chapter on the runout tolerance of the end face of the side plate, the side plate diameter d_1 is replaced by 900 mm (the original inch conversion metric size is 915 mm), It is recommended to use metric sizes first (see Table 3).

The following editorial changes have also been made in this section.

--- Change the $90^\circ 20' 0''$ in the cross-sectional view of Figure 3C-C to $90^\circ 20' 0''$, $45^\circ 20' 0''$ to $45^\circ 20' 0''$.

This section is proposed by China Textile Industry Federation.

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

This section was drafted. Zhejiang Dingfeng Textile Equipment Co., Ltd., Yancheng Rongyilai Textile Machinery Co., Ltd., and Anxi Cotton Textile Machinery in Wuxi City

Factory, Jiangyin Sifang Machinery New Technology Manufacturing Co., Ltd., Jiangyin Four Stars Spring Machinery Co., Ltd., KARL MAYER (China) Co., Ltd., Sheyang

Jieli Textile Machinery Co., Ltd., Nan'an China Machine Standardization Research Institute, Hengtian Heavy Industry Co., Ltd., China Textile Machinery Association.

1 Scope

This part of GB/T 18737 specifies the main dimensions, mechanical strength, shape and position tolerances of warping beams, as well as warping beams with and without shafts

Drive structure and markings for warping beams.

This section applies to ordinary warping beams used in the production of grey fabrics, and is not applicable to dyeing warping beams.

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this article

Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 9239.1 Mechanical vibration constant state (rigid) rotor balance quality requirements Part 1. Specification and balance tolerance test

(GB/T 9239.1-2006, ISO 1940-1..2003, IDT)

GB/T 18737.8 Definition and measurement method of warp beam runout tolerance for textile machinery and accessories (GB/T 18737.8-2009,

(ISO 8116-8..19951), IDT)

ISO 286-2 ISO Series Limits and Fits Part 2. Standard Tolerance Classes and Hole and Shaft Limit Deviation Tables (ISO system of

limitsandfits-Part 2. Tables ofstandardtolerancegradesandlimitdeviationsforholesandshafts)

ISO 8116-4 Textile machinery and accessories Warm beams Quality class

chineryandaccessories-Beamsforwinding-Part 4.

Testmethodsandqualityclassificationofflanges

forweaver'sbeams, warper'sbeamsand sectionalbeams)

3 types and main dimensions

The warp beam is divided into the following three types.

--- A warping beam with shaft extension;

--- B warping shaft with shaft hole centering and key transmission;

--- C warping beam with cone centering and transmission.

* C1. 50 teeth (not recommended);

* C2. 72 teeth;

* C3. 50 teeth.

The main dimensions of A and B warping beams are shown in Figures 1 and 2. The main dimensions of the C-type warp beam are shown in Figure 3.

The main dimensions of type A and B warp beams should conform to Table 1. The main dimensions of C-type warp beams should conform to Table 2.

- 1) ISO 8116-8..1995 has been repealed.

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