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PEOPLE'S REPUBLIC OF CHINA**

GB/T 17780.1-2012

Replacing GB/T 17780-1999

**Textile machinery - Safety requirements - Part 1: Common
requirements**

纺织机械 安全要求 第1部分：通用要求

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Introduction Introduction

The international standards ISO 11111-1 to ISO 11111-7 were drawn up jointly by ISO/TC 72 and CEN/TC 214 and adopted under the Vienna Agreement, so that the same safety standards may be applied in the design and manufacture of textile machinery. GB/T 17780.1 to GB/T 17780.7 are modified adoptions of ISO 11111-1 to ISO 11111-7:2005.

GB/T 17780 is written for everyone concerned with the safety of textile machinery, such as designers and manufacturers of textile machinery and suppliers of complete systems, and it is at the same time of concern to users of textile machinery and to safety specialists.

This part is drawn up as a type-C standard as defined in GB/T 15706.1-2007/ISO 12100-1:2003. The several parts of GB/T 17780 deal with the potential significant hazards present in textile machinery used in the textile industry, and their content covers the range of machine hazards concerned.

Where the provisions of a type-C standard differ from the content of a type-A or type-B standard, the provisions of the type-C standard take precedence.

For hazards present in machines or components not mentioned in the relevant clauses of GB/T 17780, the designer is to carry out a risk assessment and propose methods of reducing the risk in accordance with the content of GB/T 16856/ISO 14121.

Clause 5 of this part covers the main safety requirements and the measures to be taken for the hazards common to textile machinery. Clause 6 describes the significant hazards of the

components and parts specific to textile machinery, such as rollers, and the corresponding safety requirements and measures.

The individual parts of GB/T 17780 set out the significant hazards of each class of textile machinery and the corresponding safety requirements and measures. To avoid repetition and to keep the length down, the safety requirements set out mainly in Clause 5 and Clause 6 of this part apply equally to the other parts of GB/T 17780. The safety standard for a textile machine consists of GB/T 17780.2 to GB/T 17780.7 together with the relevant safety requirements of this part.

1 Scope

1.1 This part of GB/T 17780 lays down the corresponding safety requirements for the hazards common to textile machinery and for the hazards of the components covered in GB/T 17780.2 to GB/T 17780.7.

1.2 This part applies to machinery and associated equipment used in the textile industry for the following purposes: opening, cleaning, blending, carding, combing preparation, spinning and other processes that turn fibres, both staple fibres and filaments, and other raw materials into yarn or nonwoven fabric, felt included; yarn winding, doubling, twisting, texturing and other yarn preparation processes ahead of weaving and knitting; weaving, knitting, lace making and other similar processes that form fabric; the braiding of tapes, ropes, cables, cords and nets, excluding the take-up frame of rope-making machines; the pretreatment, bleaching, dyeing, printing, finishing and works make-up of fibres, yarns, fabrics, braided tapes and ropes; the piece dyeing of made-up goods; the finishing of warp-knitted and weft-knitted articles, hosiery included, but excluding the making-up of finished goods, that is sewing; and weaving, tufting and other processes that produce carpet.

1.2 This part applies to all textile machinery and equipment used in the production processes listed above, including equipment that lets a single machine or a combined machine work automatically, such as pneumatic fibre conveying equipment, but excluding transport devices between machines. A note states that the safety requirements for a particular textile machine usually consist of two parts, this part and the specific part of GB/T 17780 for the machine concerned, and that nonwoven production lines are covered in GB/T 17780.3 while GB/T 17780.2, GB/T 17780.6 and GB/T 17780.7 are also to be considered. GB/T 17780 does not deal with the specific requirements for pressure vessels.

1.3 The hazards addressed in this part and in the other parts are limited to those arising in the transport, assembly, setting, use and maintenance of the machine and in its dismantling, disassembly and disposal. Manual loading and unloading is part of the normal operation of the machine.

1.4 GB/T 17780 does not apply to the following machinery and associated equipment: the