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

GB/T 30420.4-2025

**Sewing machinery terminology - Part 4: Functional component
terminology**

缝制机械术语 第4部分：功能部件术语

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Table of Contents

1	Scope
2	Normative references
3	Terms and Definitions
3.1	Basic and general-purpose components
3.2	Home computer parts
3.3	Industrial Sewing Machine Components
3.4	Parts of embroidery machines, quilting machines, and quilting sewing machines
3.4.1	Embroidery machine parts
3.4.2	Quilting machine and embroidery machine parts
3.5	Fabric laying and cutting equipment parts
3.5.1	Fabric laying equipment parts
3.5.2	Cutting equipment parts
3.5.3	Electric shears parts
3.6	Ironing and bonding of parts
3.6.1	Ironing equipment parts
3.6.2	Components of the bonding equipment
3.7	Components of the suspended conveyor system
3.8	Electrical control system components
3.9	Other Components
3.9.1	Fabric Inspection Equipment Components
3.9.2	Washing and shrinking equipment parts
3.9.3	Components of needle detection equipment
3.9.4	Laser equipment components
4	Functional Component Terminology
24	Index

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. This document is Part 4 of GB/T 30420. GB/T 30420 has the following parts published.

---Sewing Machinery Terminology Part

1.General Terminology;

---Sewing Machine Terminology Part

2.Embroidery Machine Terminology;

---Sewing Machinery Terminology Part

3.Fabric Laying and Cutting Equipment Terminology;

---Sewing Machinery Terminology Part

4.Functional Component Terminology. This document was proposed by the China National Light Industry Council. This document is under the jurisdiction of the National Technical Committee on Standardization of Sewing Machinery (SAC/TC152). This document was drafted by: Meiji Technology Group Co., Ltd., Shanghai Sewing Machine Research Institute Co., Ltd., and Tengzhuo Intelligent Technology (Huzhou). Limited Liability Company, Zhejiang Bomeng Precision Bearing Co., Ltd., Ningbo Shengruisi Industrial Automation Co., Ltd., Zhejiang Pumeike Intelligent Embroidery Equipment Co., Ltd. The company, Zhejiang Hulong Technology Co., Ltd., Beijing Dahao Sewing Machine Intelligent Control Technology Co., Ltd., Xi'an Standard Industrial Co., Ltd., and Jack Technology Co., Ltd., Zhejiang Fangzheng Textile Machinery Testing Center Co., Ltd., Zhejiang Longtai Sewing Equipment Co., Ltd., Taizhou Product Quality Safety Inspection and Testing Institute, Feiyue Group Co., Ltd., Zhejiang Bosite Electronic Technology Co., Ltd., Jiangsu Feihu Needle Industry Co., Ltd. Helin (Ningbo) Sewing Machinery Co., Ltd., Suzhou Jinyi Precision Gear Co., Ltd., Ningbo Kavi Automation Technology Co., Ltd., Zhejiang Lejiang Machinery Co., Ltd., Shenzhen Yano Technology Co., Ltd., Ningbo Xiangrui Machinery Co., Ltd., Shanghai Yiluo Mould Co., Ltd., Ningbo City Yinzhou Yongyao Sewing Machinery Co., Ltd., Ningbo Fenghua Yuning Machinery Manufacturing Co., Ltd., Qiangxin Machinery Technology (Laizhou) Co., Ltd., Changshu Bailian Automatic Machinery Co., Ltd., Zhejiang Duole Sewing Machine Co., Ltd., Zhejiang Zhongjie Sewing Technology Co., Ltd., Zhejiang Yuelong Sewing Equipment Limited Liability Company, Zhejiang Huijie Sewing Machine Co., Ltd., Zhejiang Huayang Sewing Co., Ltd., Zhejiang Textile and Garment Vocational and Technical College, Tuoka Benma Electromechanical Technology Co., Ltd. Technology Co., Ltd., Zhuji Light Industry Era Robotics Technology Co., Ltd., and Taizhou Institute of Metrology Technology. The main drafters of this document are. Wang Ruren, Yang Zhi, Liang Yingying, Xu Minhua, Shen Bin, Wang Xunwu, Sun Jianguo, Chen Tianlong, Qian Min, Zhang Ting, and Liu Yong. Lin Xiaoxiao, Hong Dong, Zhu Guangyun, Chen Jianliang, Ye Puchang, Ding Shikui, Lu Ruiyang, Lin Bin, Chen Qian, Chen Xiaolong, Dai Feifei, Chen Tiande, Li Dexiang Jia Liang, Wang Xiaoyong, Zhang Weibing, Wang Yubo, Wang Xiaofeng, Lou Qiaojun, Chen Xuhua, Zhang Hanmiao, Wu Bo, Xu Jing, Ye Hongwu, Tan Weijun, Xu Haimiao Liang Lin and Ren Zuyi.

GB/T 30420, based on classification principles and application scenarios, provides commonly used terms in the design, production, and use of different types of sewing machines. Based on the definitions, GB/T 30420 is proposed to be divided into the following 5 parts.

1.General Terminology. The purpose is to define general terminology for sewing machinery, including the main types, products, and general characteristics of sewing machines. The terminology concerning its structure, apparatus, and performance should be clearly defined.

2.Embroidery Machine Terminology. The purpose is to define the terminology for embroidery machines within the context of sewing machinery, including commonly used terms and main product categories. The terminology for products, mechanisms, devices, control systems, operations, and pattern making should be clearly defined.

3.Terminology for Fabric Cutting Equipment. The purpose is to define the terminology for fabric cutting equipment in sewing machinery. The commonly used terms, main types, products, institutions, devices and operation terms should be clearly defined.

1 Scope

GB/T 30420.4-2025 is the Chinese national standard covering the vocabulary of the parts inside a sewing machine - the feed mechanisms, the loopers and hooks, the thread take-up and tension, the presser and the trimmer, each named once so that manuals, parts lists and other standards agree. At 22,000 words. Part 4 of the series, first edition. In force from 1 May 2026. Issued on 31 October 2025, it has been in force since 1 May 2026.

This document defines the terms and definitions for the functional components of sewing equipment. This document applies to the manufacturing, research, teaching, and trade of functional components for sewing equipment.

2 Normative references

This document has no normative references.

3.1 Basic and general-purpose components

3.1.1 sewing needle needle A needle used in sewing to guide the thread through the fabric.
[Source: GB/T 30420.1-2024, 3.1.3]

3.1.2 Looper A curved component in sewing where a guide thread passes through a loop.
[Source: GB/T 30420.1-2024, 3.1.4]

3.1.3 presserfoot The part in the pressing mechanism that holds the sewing material in place.

3.1.4 threadloop Parts for guiding the stitching.

3.1.5 Needleclamp A component that connects to the needle bar and is used to fix the machine needle.

3.1.6 needle bar Parts that secure the needle or needle clip (3.1.5).

3.1.7 needle plate Parts that support the seam fabric.

3.1.8 Rotary hook An assembly that uses rotation to guide the shuttle thread through the needle loop, forming a lockstitch.