

# Стирально-красильные машины GXF

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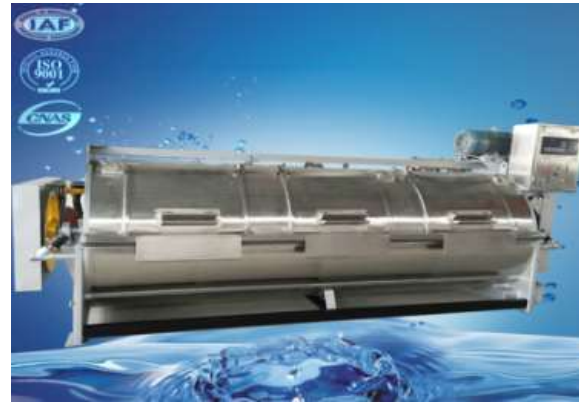
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## Advantages of Washing And Dyeing Machine

### **Good dyeing effect**

The fabric can be fully contacted with the dye liquid. Whether it is a rope dyeing machine that allows the fabric to circulate in the dye liquid, or an overflow dyeing machine or a jet dyeing machine that uses a special structural design to make the dye liquid act evenly on the fabric, it helps to ensure the uniformity of dyeing, avoid color difference, color flowers and other problems, and make the color of the fabric more pure and consistent. The dyeing process parameters such as temperature, time, dye liquid concentration, etc. can be accurately controlled to create ideal conditions for the full reaction of dyes and fabrics, so that the fabric can obtain bright and beautiful colors, meeting the market demand for high-quality dyed fabrics. Through reasonable dyeing technology and appropriate post-treatment, the adhesion fastness of the dye on the fabric can be improved, the color fading and fading phenomenon can be reduced, and the dyed fabric can maintain good color stability during use and washing.

### **High production efficiency**

Equipped with advanced control systems, it can realize the automated operation of the dyeing process, including automatic feeding, automatic adjustment of temperature and time, automatic control of dye liquid circulation, etc., reducing manual intervention, not only reducing labor intensity, but also improving production efficiency and operation accuracy. Some new washing and dyeing machines have optimized the structure in design, increased the running speed of the fabric, shortened the dyeing cycle, and can process more fabrics per unit time to meet the needs of large-scale production. Some dyeing machines support continuous production mode, and fabrics can be dyed uninterruptedly, reducing the start-up and stop time of the equipment and preparation work, further improving production efficiency.

### **Wide range of applications**

Whether it is natural fiber fabrics (such as cotton, linen, silk, wool), chemical fiber fabrics (such as polyester, nylon, acrylic, etc.), or blended and interwoven fabrics of various fibers, you can find the corresponding dyeing machine for effective dyeing treatment to meet the dyeing needs of fabrics of different materials. For fabrics of different thickness, width and weight, the dyeing machine can adapt to them by adjusting the corresponding parameters and devices. For example, it can replace nozzles of different specifications and adjust the strength of dye liquid circulation to ensure that fabrics of various specifications can get good dyeing effects. It can meet various dyeing process requirements, such as immersion dyeing, pad dyeing, cold pile dyeing, etc. Different

dyeing processes are suitable for different fabric types and color requirements. The versatility of the dyeing machine enables it to be flexibly applied to various production scenarios.

### **Energy saving and environmental protection**

Many modern washing and dyeing machines use low bath ratio technology to reduce the amount of dye liquid, reduce wastewater discharge and dye consumption, save production costs, and reduce pollution to the environment. For example, some high-temperature gas-liquid dyeing machines and normal-temperature gas-liquid dyeing machines can achieve a lower dyeing bath ratio (such as the dyeing bath ratio of pure cotton fabrics can be as low as 1:3.5), which significantly reduces resource consumption while ensuring dyeing quality. By optimizing the heating and cooling system, the utilization efficiency of energy can be improved and energy waste can be reduced. For example, advanced steam solenoid valves, efficient heat exchangers and other equipment are used to shorten the heating time of the dye solution and reduce energy consumption; some dyeing machines are also equipped with intelligent energy management systems to automatically adjust the energy supply according to the actual production situation, further realizing energy saving and consumption reduction.

### **Convenient operation and maintenance**

The operation interface is friendly, easy to understand and operate. Operators can easily set and monitor various parameters in the dyeing process and understand the operating status of the equipment in a timely manner. At the same time, the layout of the equipment is reasonable, which is convenient for daily maintenance and maintenance. It has a complete fault diagnosis function. When the equipment is abnormal, it can automatically detect and display fault information to help maintenance personnel quickly locate and troubleshoot faults, reduce equipment downtime, and improve equipment reliability and stability. The structure of the equipment is well designed, and the parts are easy to disassemble and replace, which is convenient for regular maintenance and upkeep, such as cleaning, lubrication, inspection, etc., to extend the service life of the equipment and ensure the performance of the equipment.

### Types of Washing And Dyeing Machine

#### **Washing And Dyeing Machine For Samples, Garments, Fabrics, Jeans**

10-400Kg Washing And Dyeing Machine For Samples, Garments, Fabrics, Jeans For use in textile, jeans, denims, fabrics, wools and garment factory etc..

Horizontal structure. Normal Temperature and Normal Pressure.

Full Stainless steel drum and frame.

Steam direct and indirect heating, with computer, inverter and chemical tank.

#### **Jeans And Denims Washing And Dyeing Machine**

10-400Kg Jeans And Denims Washing And Dyeing Machine For use in textile, jeans, denims, fabrics, wools and garment factory etc..

Horizontal structure. Normal Temperature and Normal Pressure.

Full Stainless steel drum and frame.

Steam direct and indirect heating, with computer, inverter and chemical tank.

#### **10-400Kg Washing And Dyeing Machine**

10-400Kg Washing And Dyeing Machine For use in textile, jeans, denims, fabrics, wools and garment factory etc..

Horizontal structure. Normal Temperature and Normal Pressure.

Full Stainless steel drum and frame.  
Steam direct and indirect heating, with computer, inverter and chemical tank.

## Key Components of Washing And Dyeing Machine

### **Fabric loading and unloading system**

The fabric is circulated in the form of an endless rope of the fabric. The pieces of the fabric are stitched together to find the continuous length of the available fabric to be dyed. A woven cotton tape having good tensile strength is passed through the fabric passage during machine commissioning. Now, the upper end of the fabric is tied with the upper end of the cotton tape. The take-up roller or drive wheel carries the fabric inside the machine. The lower end of the cotton tape is pulled out slightly during loading till the upper end of the fabric comes out of the machine. The cotton tape is removed from the fabric now. The fabric loading gets continue till the lower end of the fabric. Now, the upper and lower ends are stitched together to form an endless fabric. The fabric loading and unloading door is closed now.

### **Dye autoclave or main dye vessel**

The dye autoclave is made of high-quality corrosion-resistant stainless steel. Basically, it is a high pressure closed vessel. The dye bath is filled in this autoclave. the fabric is loaded inside this autoclave. a leak-proof fabric loading and unloading door is mounted in front of the autoclave.

### **Nozzle or overflow tube and fabric transport system**

The rope of the fabric and dye liquor both move slowly in the washing and dyeing machine. The transportation of the fabric imparts a mild mechanical action. The dye liquor feeds to the nozzle at high pressure. When the fabric passes through the nozzle, the circulating fabric comes in contact with dye liquor. The dye liquor penetrates into the fabric properly due to pressurised liquor circulation. The main dyeing vessel is a tubular vessel. The fabric coming out of the nozzle and narrow tube( delivery tube) falls into the main dye vessel. The falling fabric gets plaited continuously in the man dye vessel.

### **Liquor circulation pump and filter**

A high-pressure liquor circulation pump is used to feed the dye liquor into the nozzle. It takes the liquor from the main dye vessel and feeds it to the nozzle. A filter is also attached with a liquor pump that cleans the dye liquor continuously.

### **Heat exchanger**

A heat exchanger is mounted between the liquor circulation pump and the nozzle of the machine. The main function of the heat exchanger is to bring down the temperature when required. When the dyeing is completed, the cooling of the dye bath is performed with the help of this heat exchanger.

### **Working Principles of Washing and Dyeing Machinees**

Washing and dyeing machinees work on the principle of dye diffusion, which involves the movement of dye molecules from the dye bath to the fabric surface. The fabric is either immersed in the dye bath or passed through it, allowing the dye molecules to penetrate and bond with the fabric fibers. Most washing and dyeing machinees employ the use of heat, water, and chemicals to enhance the dye absorption process. The temperature and duration of the dyeing process vary depending on the type of fabric

and the desired color intensity. The dyeing machines control these factors with precision, ensuring consistent and reliable dyeing results.

## How to Dye Using the Washing and Dyeing Machine

- Before dyeing, remove any visible stains on the garment. This will help achieve uniform color results when dyeing. Pre-wash item in warm, soapy water without any fabric softener. This helps to remove any finishes that may interfere with dye absorption.
- Wet fabric and place item(s) in the washing and dyeing machine.
- Set water temperature to the hottest possible setting and a wash cycle of at least 30 minutes or longer. The longer the item is in the dye, the darker the color will be.
- Wearing rubber gloves, mix powder or well-shaken liquid dye with 4 cups of very hot water. Stir well.
- In a separate container, dissolve 1 cup of salt in 4 cups of very hot water if dyeing natural fibers like cotton or linen. If dyeing silk or nylon, mix 1 cup of white vinegar with 2-4 cups of hot tap water.
- Add 1 teaspoon of dish detergent to help promote level dyeing.
- Start the cycle.
- Remove detergent cup from detergent tray.
- Pour the dye solution into the dispenser. Then, pour the salt or vinegar solution. Flush the dispenser thoroughly with 4 cups more of hot tap water.
- To enhance the color and reduce color bleeding, use Rit ColorStay Dye Fixative immediately after dyeing and before washing, following these instructions.
- Rewash item in warm water with mild detergent.
- To clean the washing and dyeing machine: Wipe around the inside of the lid and pour a little bleach through the internal dispenser (if there is one) as dyes can get into these areas. Then, fill washer to the highest water level there is and select the hottest water temperature setting. Add detergent with 2 cups of chlorine bleach and run a full wash cycle with 3 old towels.

### Specification

Type	Max. capacity (Kg)	Drum Dimension (mm)	Speed (r/min)	Power (Kw)	Overall Dimension (mm)	Steam pressure (Mpa)	Water consumption per time (Kg)
GXF-30	30	660×800	5-33	1.1	1500×1100×1300	0.4-0.6	520
GXF-50	50	800×980	5-33	1.5	1750×1200×1500	0.4-0.6	620
GXF-70	70	950×1220	5-33	2.2	2050×1400×1850	0.4-0.6	750
GXF-100	100	960×1420	5-33	3	2300×1400×1850	0.4-0.6	920
GXF-150	150	1060×1650	5-33	4	2500×1500×1900	0.4-0.6	1100
GXF-200	200	1080×2000	5-33	5.5	3000×1500×2000	0.4-0.6	1430
GXF-250	250	1200×2280	5-30	7.5	3300×1820×2100	0.4-0.6	1730
GXF-300	300	1300×2280	5-28	7.5	3300×1930×2200	0.4-0.6	2050
GXF-400	400	1220×3360	5-28	11	4400×1850×2200	0.4-0.6	2400

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