

Ricoma SonicJet PTM-100 User Manual



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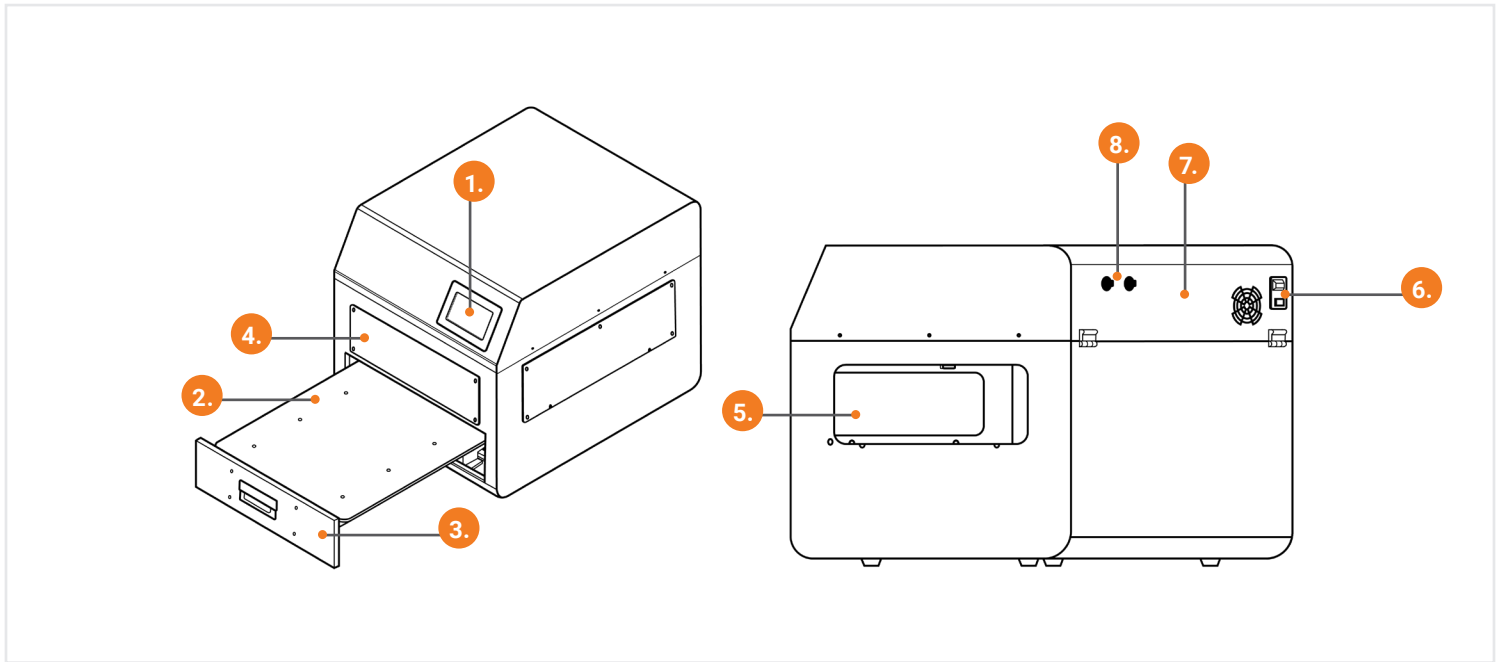
WARNING

The machine must be cleaned every day after use. If the machine stops running for more than 30 minutes, the machine and water tubes must be cleaned with water.

CAUTION

To reduce the risk of fire, electric shock or personal injury when using the pretreatment machine, follow basic precautions, including the following:

- Please read all relevant instructions before using the pretreatment machine.
- Don't overload the pretreatment machine with large or bulky items.
- Don't modify the machine's control settings.
- Do not attempt to repair the machine on your own. Consult a professional if any repairs are needed.
- Don't open the pretreatment machine while it's in use.
- Don't use any gasoline, solvent, acid or any other flammable or explosive substance in or near the pretreatment machine, as vapor released by these substances may ignite or explode.
- Don't put too much weight on the machine drawer, as this can cause damage to the drawer sliding system.
- When spraying chemicals, wear appropriate protective equipment recommended by the chemical manufacturer.



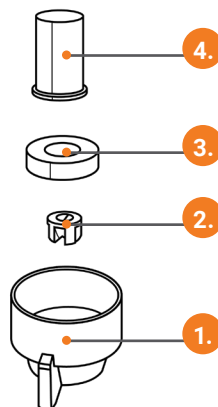
1. **Display:** 5" HD Display
2. **Platen:** Place the garments to be treated onto the platen
3. **Drawer:** Open the drawer to load garments
4. **Front window:** Open to observe nozzle and maintenance
5. **Side window:** Open to access the machine for maintenance
6. **Power switch:** Press (I) to power on, press (o) to power off
7. **Fan exhaust:** Don't block the exhaust area
8. **Drain connector:** For deep and shallow treatment solution

Technical Specifications

- **Design:** Stainless steel hardware
- **Construction:** Exhaust filtration system
- **Spray area:** 400 x 500mm
- **Spray quantity:** 14 - 36g
- **Tray size:** 400 x 500mm
- **Overall size:** 645 x 493 x 491mm
- **Shipping weight:** 37kg
- **Power requirements:** AC110V/60hz AC220V/50hz
- **Maximum power:** 150w
- **Other functions:** Cost calculator and Save settings

Nozzle Components

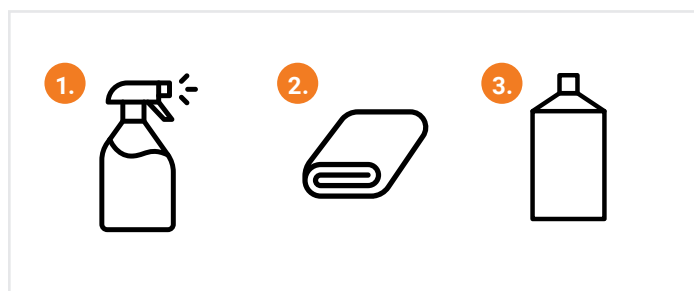
Place the nozzle (2) in the nozzle cover (1) and the rubber pad (3) on top of the nozzle (2), then place the check valve (4) on the rubber seat (3), and finally twist the nozzle component for quick connection on the nozzle body.



1. **Nozzle cover:** Secure the nozzle onto the spray head.
2. **Nozzle:** Provides a uniform spray pattern.
3. **Rubber pad:** Secure the nozzle inside the nozzle cover.
4. **Check valve:** Prevents the nozzle from dripping after spray cycle.

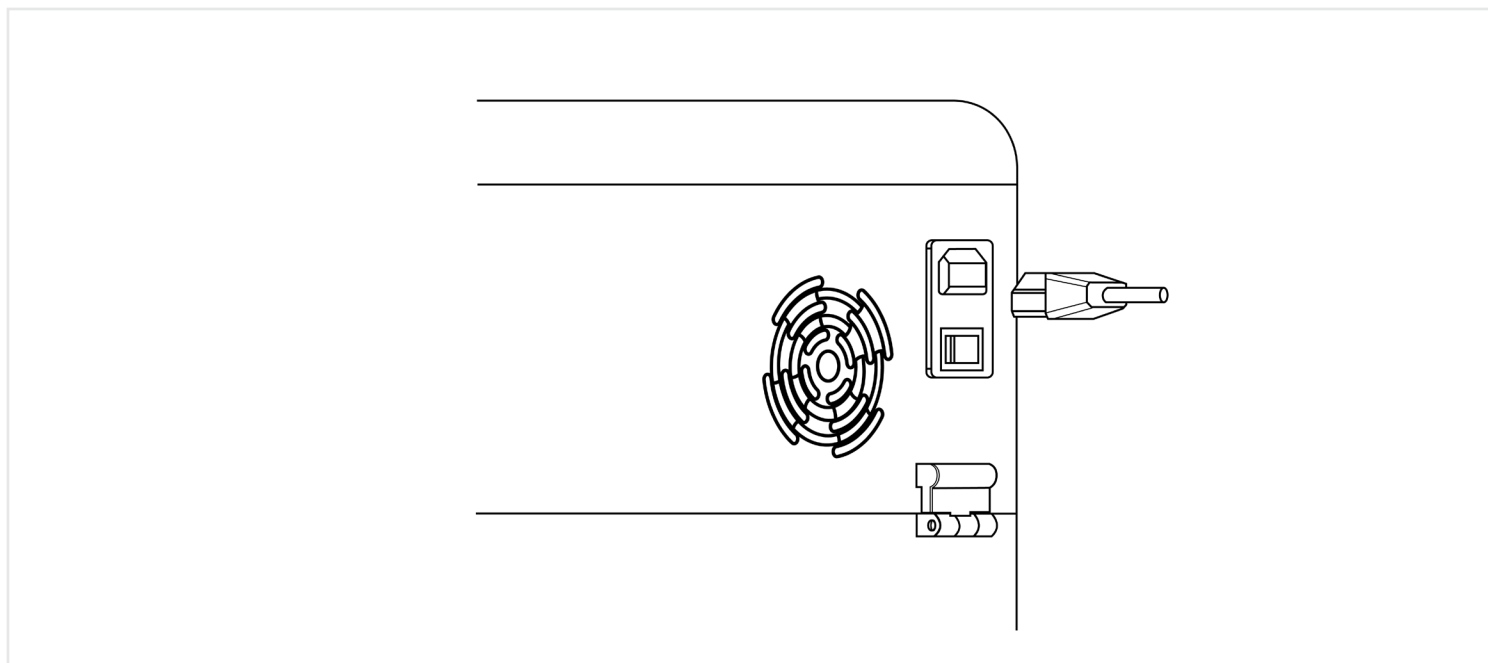
Tools and Accessories Required

1. **Detergent:** Used to clean PTM-100 after use.
2. **Towel:** Used to clean PTM-100 after use.
3. **Distilled water:** Used to clean PTM-100 after use.



System Power Supply

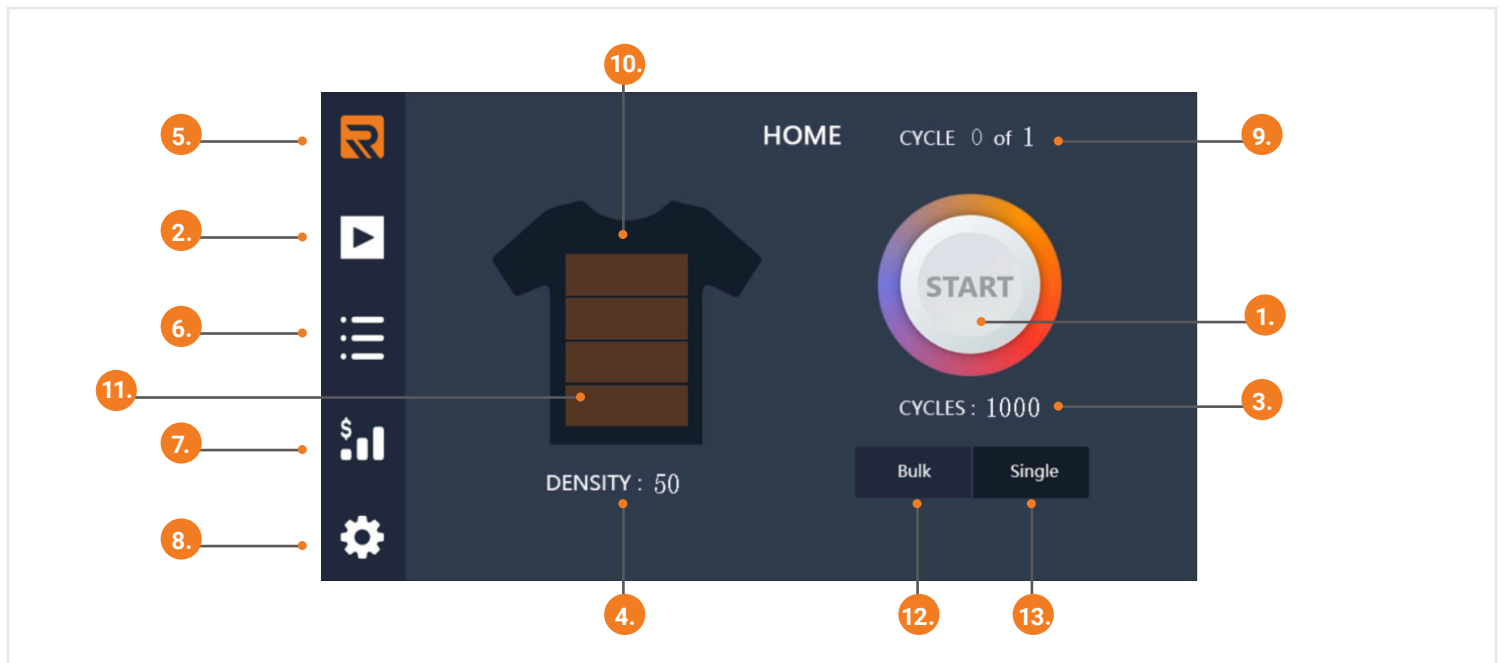
The input voltage of PTM-100 is 110V/60Hz or 220V/50z. Plug the power cord into the power connector on the back of PTM-100.



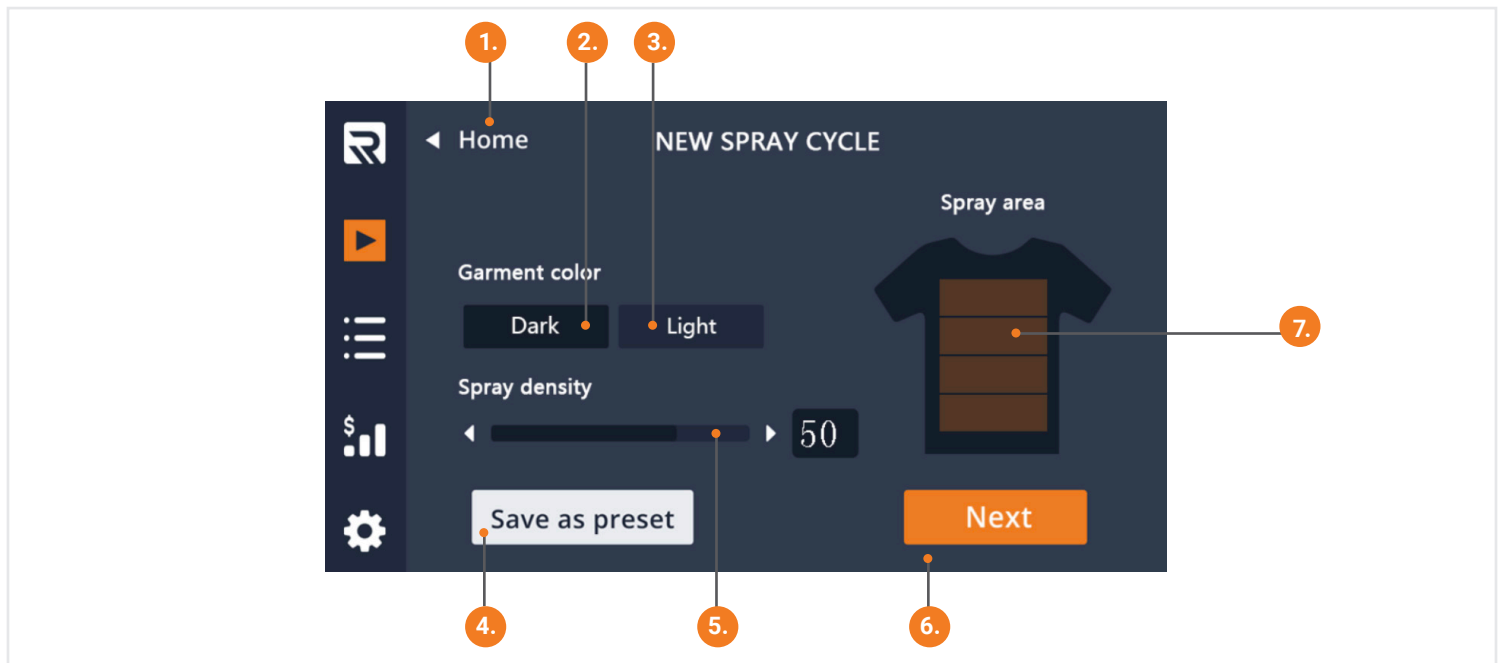
Press the power switch to the “on” (I) position to switch on the power supply.

Note: Be aware of electrical safety when plugging in the power cord

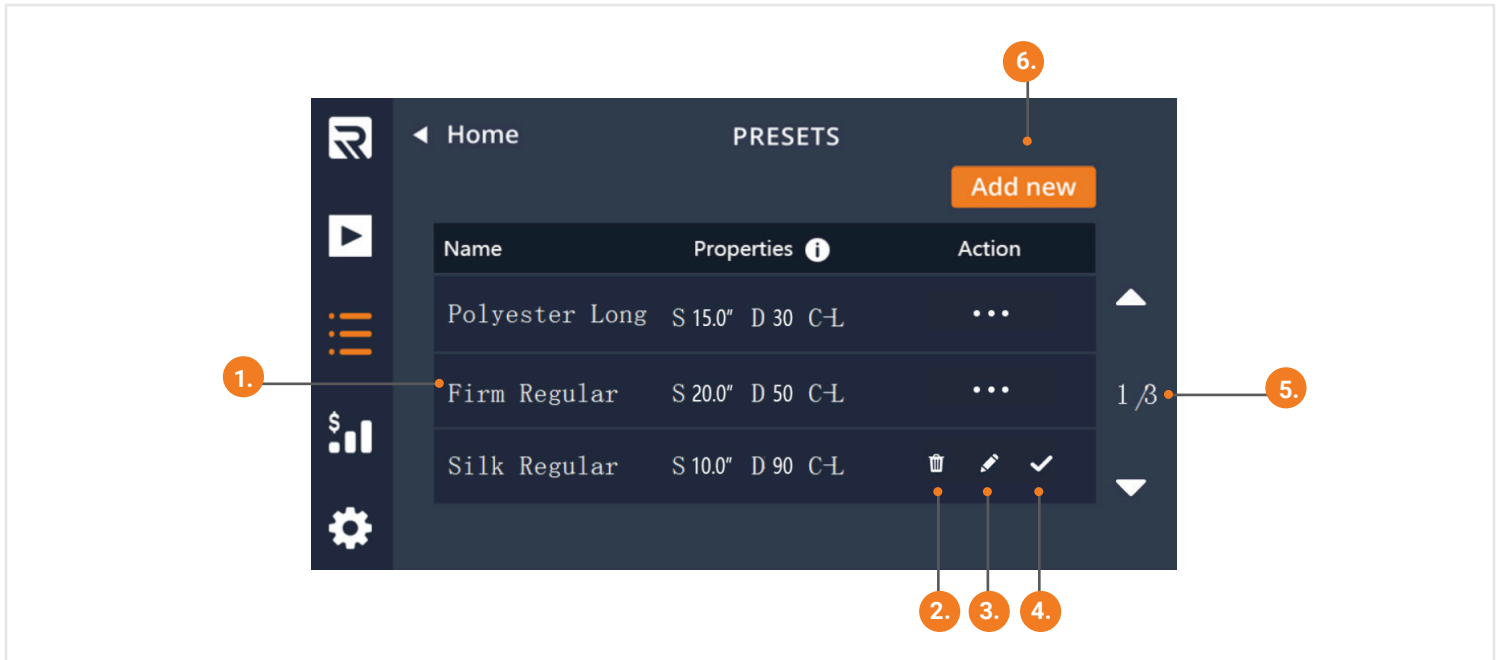
When powered on for the first time, PTM-100 will automatically find its origin position, with the nozzle gradually moving to the starting position.



1. **Start/stop icon:** Start or stop the spray cycle.
2. **Spray preset icon:** Switch to the preset page.
3. **Counting display:** Display the cumulative number of operations.
4. **Spray quantity display:** Display the spray density.
5. **Homepage:** Click the icon to switch to homepage/main menu.
6. **Reset list menu icon:** Switch to the preset list page.
7. **Statistics menu icon:** Switch to the statistics menu.
8. **Maintenance menu icon:** Switch to the maintenance page.
9. **Automatic mode counter:** Display the number of operations in the automatic mode.
10. **Dark/light garment display:** Display dark and light garments.
11. **Spray area display:** Display the spray area.
12. **Automatic mode setting icon:** Switch to the automatic mode setting page.
13. **Manual mode setting icon:** Switch to the manual mode.



1. **Main menu return icon:** Return to the main menu page.
2. **Dark garment icon:** Switch to the dark garment mode.
3. **Light garment icon:** Switch to the light garment mode.
4. **Preset saving icon:** Switch to the preset saving page.
5. **Spray quantity setting:** Click the left and right arrows to respectively increase and reduce the spray quantity.
6. **Next preset icon:** Switch to the preset list page.
7. **Spray area selection icon:** Select the rectangular box inside the garment icon to select the spray area.



1. **Files saved:** Preset the files saved.
2. **File deletion icon:** Delete the preset files.
3. **Preset file writing icon:** Enter the preset interface for file writing.
4. **File saving icon:** Save changed files.
5. **Page count icon:** Click the upper and lower arrows of the icon to respectively page up and down.
6. **File addition icon:** Click the icon to newly add preset files.



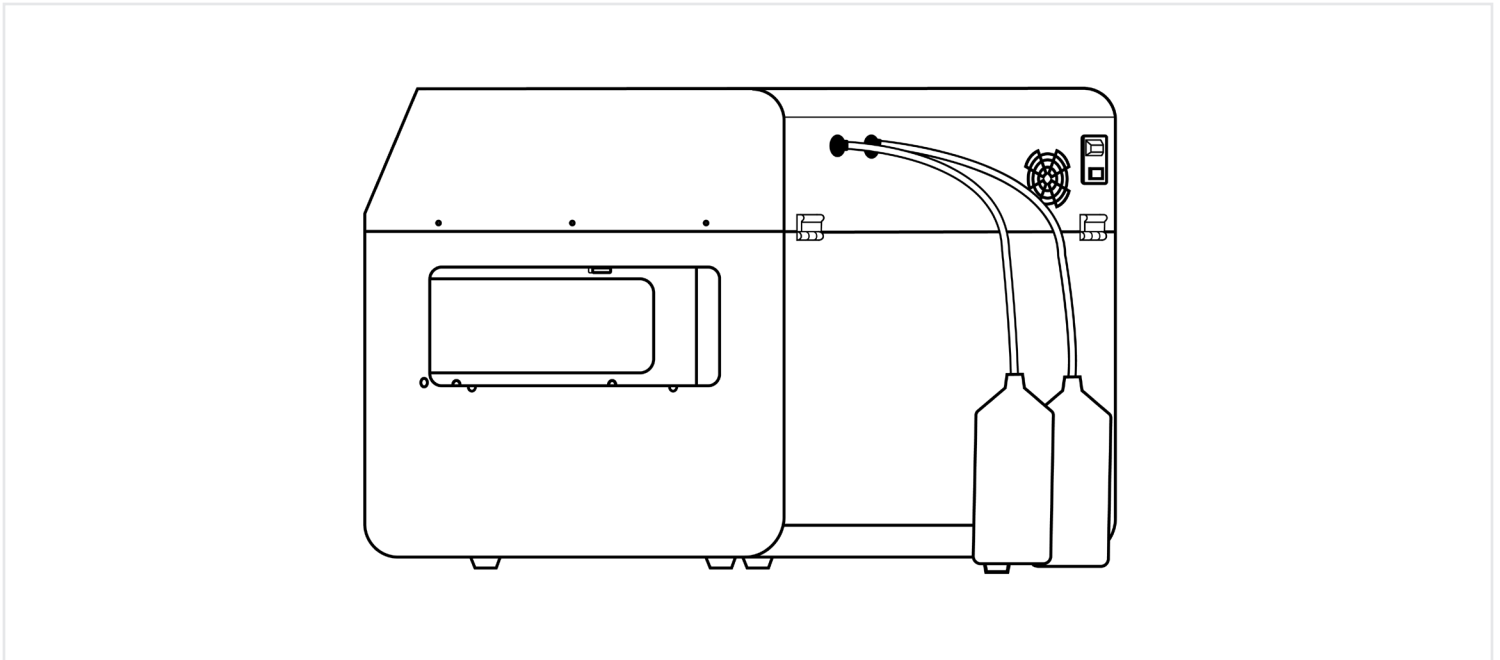
1. **Water inlet tube A:** Display the icon of tube A.
2. **Reset icon:** Cycle reset.
3. **Drain tube B:** Display the icon of tube B.
4. **Machine information icon:** Click the icon to display detailed machine information.
5. **Bottle volume icon:** Click the “pencil” icon in the right to enter the value modification page.
6. **Cost icon:** Click the “pencil” icon in the right to enter the value modification page.
7. **Cycle icon:** Display the number of operations.
8. **Cost/garment icon:** Display the treatment cost automatically calculated upon the completion of each operation.
9. **Total cost icon:** Display the total cost automatically calculated upon the completion of each operation.



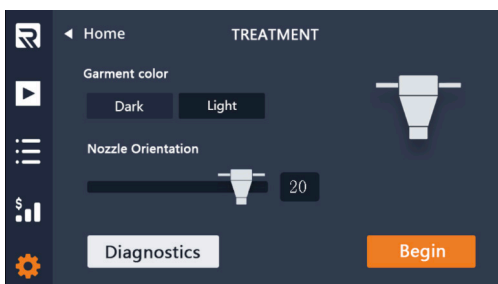
1. **Dark garment icon:** Switch to the dark garment mode.
2. **Light garment icon:** Switch to the light garment mode.
3. **Component control menu entry icon:** Enter the next-layer maintenance page.
4. **Nozzle movement control icon:** Click the icon to adjust the movement position of nozzle.
5. **Nozzle switch icon:** Control the start or stop of nozzle.
6. **Solenoid valve 2 start/stop icon:** Start or stop the solenoid valve.
7. **Fan start/stop icon:** Start or stop fan.
8. **Sensor icon:** The sensor is normally on by default, and cannot be turned off or on.
9. **Solenoid valve 1 start/stop icon:** Start or stop the solenoid valve.
10. **Pump start/stop icon:** Start or stop water pump.
11. **Nozzle solenoid valve start/stop icon:** Start or stop solenoid valve.
12. **Origin sensor:** The sensor is normally on by default, and cannot be turned off or on.

Preliminary Workflow

It is advised to do a test on a practice garment before running the pretreatment machine to ensure that uniform spray is functioning.



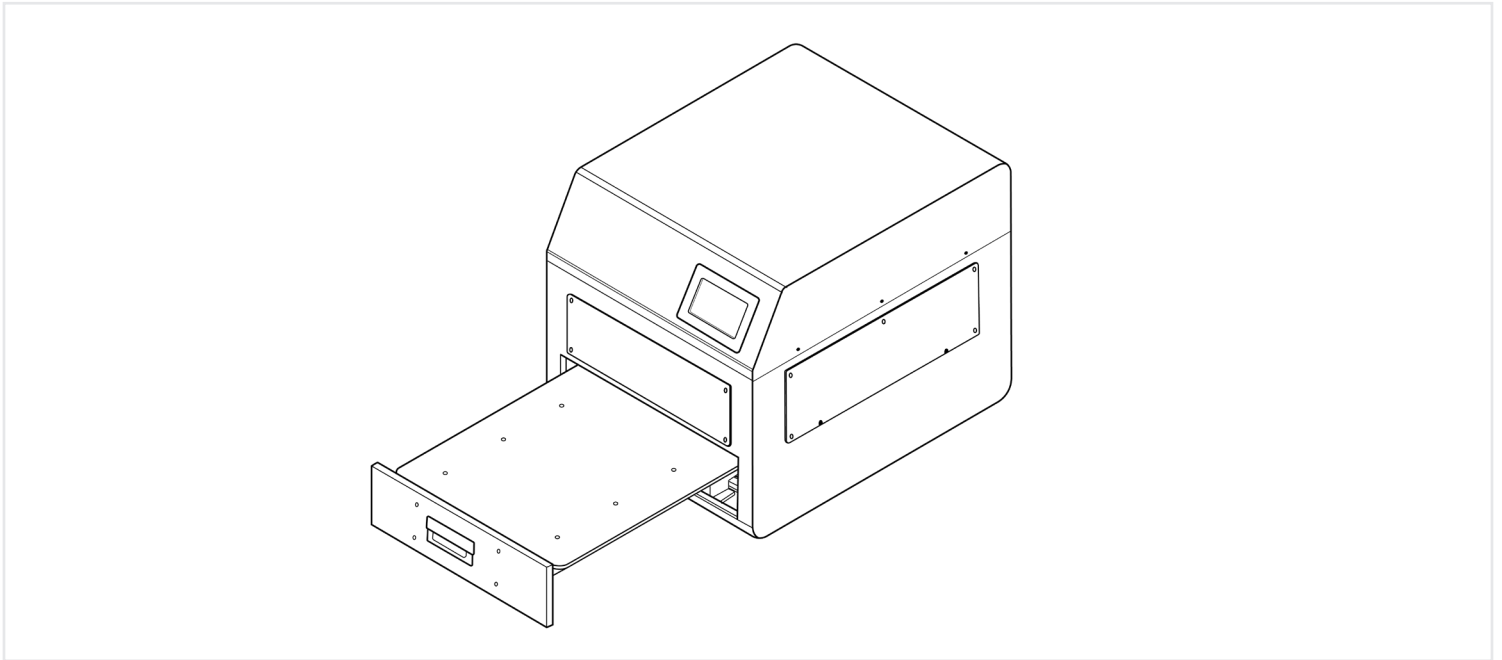
1. Start the machine, and then click the maintenance menu icon to enter the maintenance menu page.
2. Place the hose into the pretreatment container.
3. Insert the hose into the pretreatment entry for quick connection.
Note: Please ensure that the hose is fully inserted into the pretreatment drain for quick connection. If the hose is not fully inserted and well secured, solution may not travel through the hose properly.
4. Place a cup under the nozzle for pretreatment solution collection in the process of testing.
5. As shown in the picture below, click the “Dark” or “Light” button first, then adjust the position of nozzle to the side closest to you to facilitate the placement of cup. Finally click the “Begin” button.



6. After testing, the excess pretreatment solution may be poured back into the pretreatment container.
Note: When starting the machine for the first time, you may need to hold the start button for up to 30 seconds.

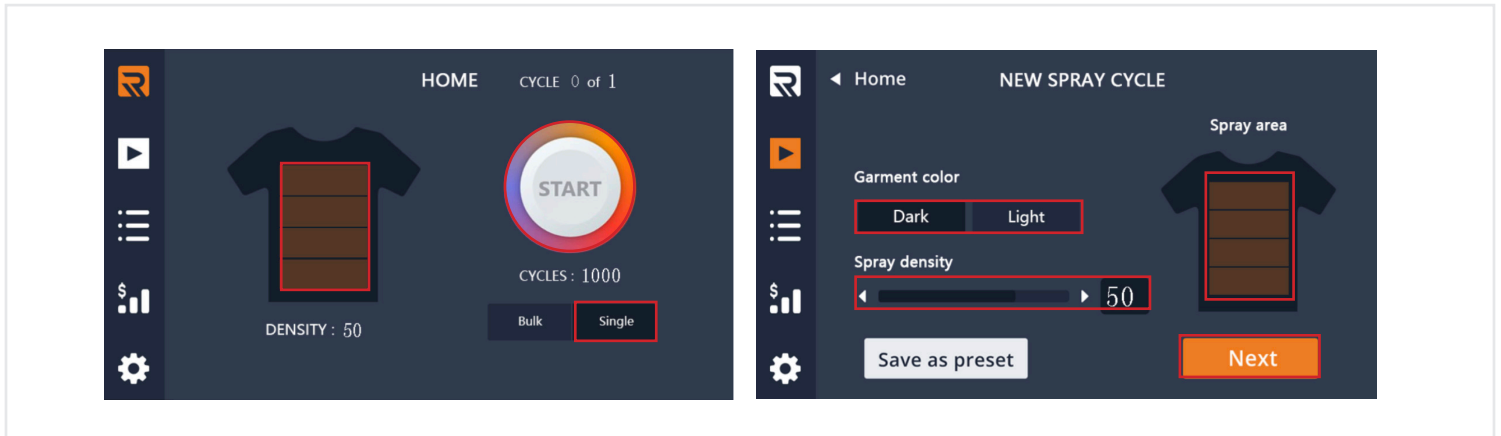
How to Correctly Place Garments

Correct operation will ensure uniform spray.



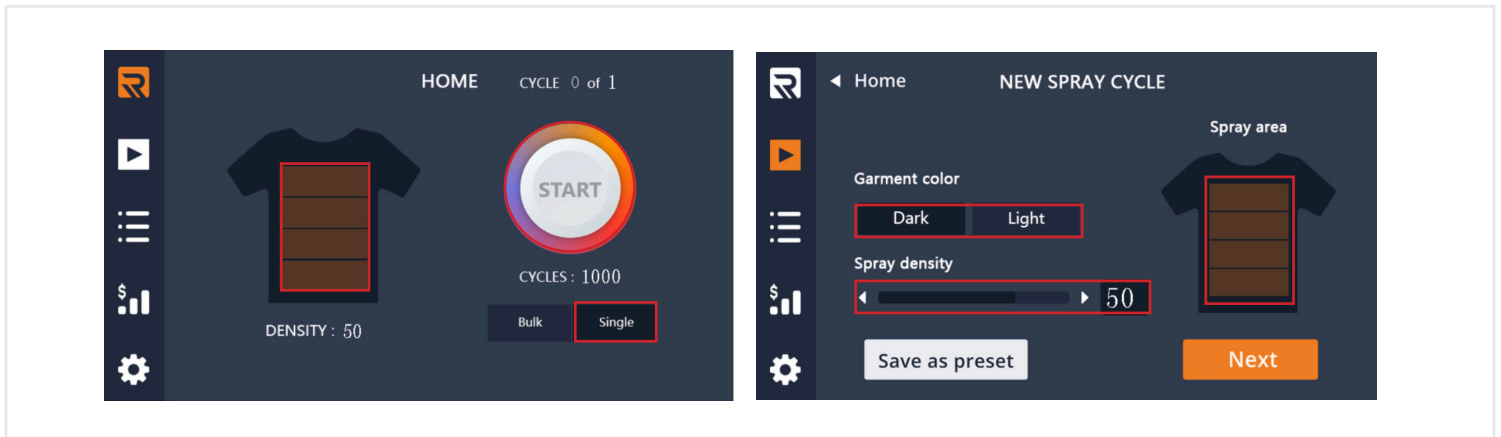
1. Place garments on the platen, as shown in the picture above, with the collar facing the back of the machine.
2. Place excess garments below the platen.
3. Push the drawer into the machine.

The following operations should come after the completion of the preliminary workflow.



Manual mode

Click the garment icon to enter the preset mode. After adjusting the spray parameters, click the “Next,” “Single” and “START” buttons. The machine will begin to operate according to the adjusted parameters. Upon the completion of operation, remove the treated garment, place your next garment onto the platen and click the “START” button once again.



Automatic mode

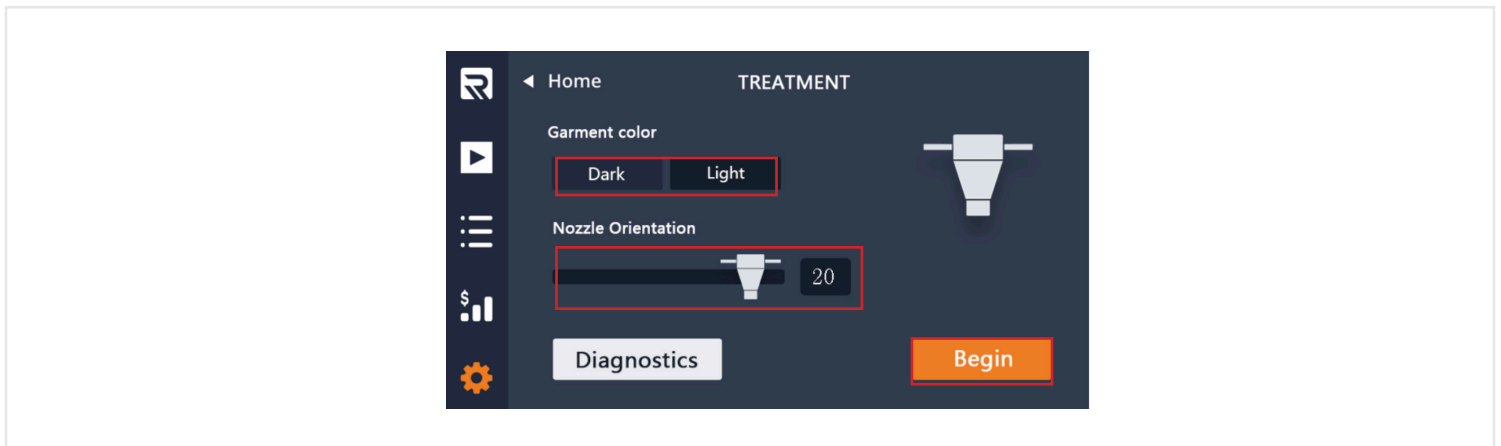
Click the garment icon to enter the preset mode. After adjusting the spray parameters, successively click the “Next,” “Bulk” and “START” buttons. The machine will begin to operate according to the adjusted parameters. Upon the completion of operation, remove the treated garment, place your next garment onto the platen, and push the drawer into the machine so that the machine can operate automatically.

Note: Once the machine has started to operate, do not open the drawer or add any items to avoid damage. Blocking the nozzle during the spray cycle may damage the machine.

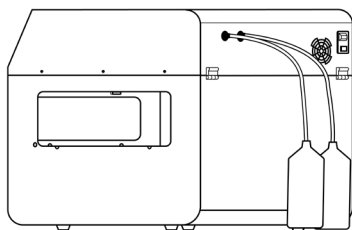
Machine Cleaning

If the machine is expected to be idle for a long time, it is crucial to follow the following maintenance procedures, which should be performed after each use of the machine.

Note: Failure to rinse the machine as instructed after each use may damage machine components, which is beyond the warranty coverage of the machine.



1. Click the maintenance menu icon to enter the maintenance menu for machine rinsing.
2. Remove the drain hose from the container.
3. Move the nozzle to the side near the window so that a cup can be placed under the nozzle to collect excess pretreatment solution.
4. Press the “Begin” button on the page until all the pretreatment solution in both the “Dark” and “Light” hose lines is used up.
5. Have the excess pretreatment solution poured back into the pretreatment container.
6. Place the drain hose into the distilled water container.



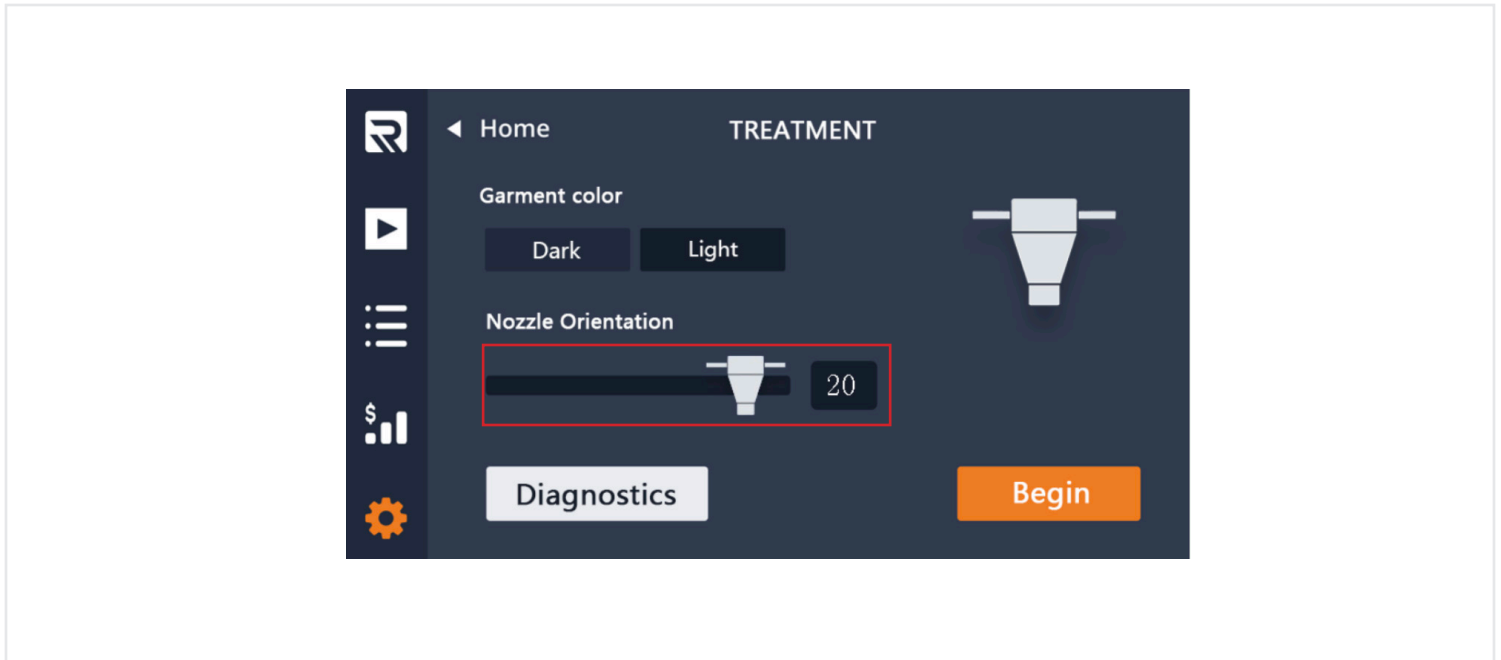
7. Open the front window of the machine and place a cup under the nozzle to collect distilled water.
8. Press the “Begin” button to remove the remaining pretreatment solution in the hose lines.
Note: It may take several start cycles and some pure water to remove all the pretreatment solution remaining in the hose lines.
9. If the machine is idle for a long time, it is recommended to retain some distilled water in the liquid line, which may help ensure normal start of the machine the next time it is used.

Powering Off

Before powering off the machine, please be sure to follow the procedures for “machine rinsing.”

Note: Failure to follow these procedures after each use may damage some machine components.

To power off the machine, first press the maintenance menu icon to enter the maintenance menu.



1. Click the “Nozzle Orientation” button to bring the nozzle back to the origin point.
2. Press the “Power-off” (O) button at the back of the machine.

Keeping Your Machine Clean

It is important to keep the machine clean during long-term use. The pretreatment solution is likely to produce precipitation, which may affect the normal operation of the machine. It is recommended to clean the interior of the machine after each use to prevent the formation of precipitation that may prevent the machine from operating correctly.

1. Open the side and front windows or pull out the drawer to be able to reach inside the machine for removal of pretreatment solution.
2. Clean off excess pretreatment solution inside the machine with rag or towel.
3. Remove any residual pretreatment solution inside the machine with all-purpose cleaner.

Error	Possible Reasons	Solutions
The pretreatment solution is dripping from the solenoid valve.	<ul style="list-style-type: none"> a. The hose may have come loose. 	<ul style="list-style-type: none"> a. Quickly connect the hose.
Excess pretreatment solution is dripping from the nozzle	<ul style="list-style-type: none"> a. The nozzle cover may be loose. b. The O-ring for nozzle was not installed. c. The check valve was not installed. 	<ul style="list-style-type: none"> a. Tighten the nozzle cover. b. Install the O-ring nozzle. c. Install check valve.
The pretreatment solution is leaking from the back of the pretreatment device onto the garments	<ul style="list-style-type: none"> a. The pump hose may be loose. 	<ul style="list-style-type: none"> a. Remove the cover plate and push the hose into position for quick connection.
No power supply	<ul style="list-style-type: none"> a. The power switch is in the "off" (O) position. b. The power cord fails is not plugged into the wall outlet. c. The power cord is damaged. 	<ul style="list-style-type: none"> a. Adjust the power switch to the "on" (I) position. b. Plug the power cord into the wall outlet. c. Replace the damaged cord.
The nozzle has stopped moving during the movement or injection cycle	<ul style="list-style-type: none"> a. The belt tension is too loose. b. The guide rail is not lubricated correctly. 	<ul style="list-style-type: none"> a. Tighten the belt tension by adjusting the tension pulley or check the screws of the motor pulley. b. Lubricate the guide rail with silicone oil spray.
The nozzle is making an abnormal sound when returning to the origin point upon the completion of operation	<ul style="list-style-type: none"> a. The origin limit switch is not operating properly. 	<ul style="list-style-type: none"> a. Check whether the sensing position of the switch is normal. If so, check whether the limit switch is damaged, and replace it if damaged.
The spray pattern tilts to one side	<ul style="list-style-type: none"> a. The nozzle is slightly tilted. 	<ul style="list-style-type: none"> a. Reorient the nozzle.

Error	Possible Reasons	Solutions
The spray pattern is uneven, spraying thick spray on one side, and thin spray on the other side.	a. The nozzle is blocked.	a. Try to clean the nozzle with proper cleaning fluid. If you are still having issues, replace the nozzle and the O-ring.
The inconsistency of spray mode leads to sporadic spray; the spray pattern fails to cover the entire width of the pressing plate.	a. The container of pretreatment solution contains insufficient pretreatment solution or is empty. b. The nozzle is blocked.	a. Replace the pretreatment solution and restart the device. b. Try to clean the nozzle with proper cleaning fluid. If you are still having issues, replace the nozzle and the O-ring.