

# PRESTATIK

## MODEL L1000



## OPERATION AND INSTRUCTION MANUAL





## 1. Introduction

Thank you for trusting ION+INDUSTRIES.

This manual contains all the necessary information for the correct installation, use, maintenance, and safety of the pollen extraction, filtering, and flower/biomass trimming machine for CBD/THC.

Carefully follow the instructions to ensure optimal and safe operation of the equipment.

## 2. Equipment Description

The PRESTATIK machinery range is designed to extract pollen from CBD/THC flowers or biomass. Through its auxiliary drum, it also allows the automatic trimming of dried CBD/THC flowers, thus obtaining a product ready to be introduced into one of our electrostatic separators when working with its mesh drum (MINI, STANDARD, PROFESSIONAL, TITAN), or a completely leaf-free flower when using the trimmer drum and mode.\*\*

Not available in the MONSTER model

It features a fully editable PLC control system, where the working time, drum speed, drum start and braking speed, and the time between rotation changes can be configured.

### Main components:

Frame, tilting system, and drums made of stainless steel.

Nylon meshes in different micron sizes (according to selection).

Blade made of polyethylene.

Door made of polycarbonate.

Control panel.

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### 3. Installation

1. Place the machine on a level and stable surface.
2. Connect the power cable to a grounded 220 V single-phase power outlet.
3. Check that all doors and drawers are properly closed before starting operation.
4. Make sure that the meshes are clean and that their fastening screws are properly tightened.
5. Ensure that the material to be processed is sufficiently dry before loading it, whether working with flowers in trimmer mode or with biomass in extraction mode.

### 4. Electrical Connections

Power supply: 110–220 V single-phase / max. 5A

Grounding: mandatory

Noise level: 70 dB

### 5. Operating Instructions

Connect the machine to the power supply.

Activate the ON/OFF button located next to the power inlet.

Make sure the emergency stop button is not engaged and turn the ON/OFF switch located next to the touchscreen.

Place the drum in a vertical or upward-tilted position to load the material comfortably (to do this, loosen the lever located on the side of the machine).

Remove the lid by loosening the latches one full turn and load material until approximately 50–70% of the drum capacity is filled.

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Reinstall the lid, properly closing the drum.

Place the drum in a horizontal position (in the same way described in step 4).

Enter the desired operating time in the PROGRAMMER section and set the required values in the ROTATION CONTROL section. Once all values are entered, press START on the main screen. When the work cycle is finished, the machine will stop automatically.

Place the drum in a vertical or downward-tilted position to unload the material comfortably (loosen the side lever as described above).

To remove the drawer, loosen the four levers (two at the front and two at the rear).

#### **Manual drum rotation mode:**

The drum can be moved in manual mode at very low speed and in the desired rotation direction (very useful for installing/removing meshes for cleaning or replacement).

To do this, on the main screen, press and hold the SWITCH TO MANUAL button for more than 5 seconds.

A message will appear: "Are you sure?" Press Yes. Then select the desired rotation direction (just below ROTATION ACTIVATION) and keep it pressed. The drum will start rotating at low speed. Release the button to stop it.

Once manual mode work is finished, press and hold SWITCH TO MANUAL again to deactivate it.

#### **\*TRIMMER MODE**

If you wish to use your PRESTATIK in trimmer mode (not available on the MONSTER model), you must first remove the mesh drum. To do this, remove one of the six meshes to comfortably handle the drum and access the screws that secure the drum

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to the drive shaft. If necessary, remove all meshes to avoid damaging them during the drum change process. Remove all the screws from the center of the shaft and carefully pull the drum out from the front (perform this step with extreme caution, as the meshes are very delicate and can be easily damaged or broken).

Next, place the blade between the two tensioners located inside the machine (the blade is symmetrical and can be installed in any orientation, as long as the blade holes align with those of the tensioners).

After this, insert the drum fully, sliding it over the blade and aligning the opening at the rear of the drum with the protrusion of the machine's drive shaft. Reinstall the screws using the special tool supplied with the machine.

Once all screws are securely tightened, select the working time and activate TRIMMER MODE within the rotation control menu (when activated, some options are disabled since there are no rotation changes in this mode). Press START and tension the blade against the drum so that it lightly brushes against it, using the lever located on the front right side of the machine.

#### **Process Description**

##### **EXTRACTION MODE**

Once the machine is activated, the flowers or biomass begin to rotate inside the drum, colliding with each other. In this way, the pollen/dust separates from the rest of the material and, as it passes through the meshes, it is collected in the drawer, leaving flowers or biomass free of pollen inside the drum.

##### **TRIMMER MODE**

The flowers begin to rotate inside the drum, and the leaves pass through the drum slots. The friction between the drum and the blade causes the leaves to break down and fall into the drawer, leaving completely clean, leaf-free flowers inside the drum.

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### 6. Control Panel and Settings

The control panel includes:

Main ON/OFF switch  
Emergency stop button  
PLC touchscreen display

### 7. Safety



**Important precautions:**

Do not operate the machine with the door open.  
Do not insert hands or tools into the working area while the machine is in operation.  
Do not use the machine in humid environments or near flammable liquids.  
Disconnect the equipment before performing any cleaning or maintenance.  
Ensure proper grounding before starting the machine.

**Integrated safety protections:**

Protective fuses.  
Ground connection.  
Polycarbonate door.  
Emergency stop button.

### 8. Cleaning and Maintenance

Clean the equipment every 8 hours of operation.  
Use a dry cloth, compressed air, or isopropyl alcohol to remove dust and biomass residues.  
Do not use water, abrasive products, or solvents other than isopropyl alcohol.  
Check that the meshes have not suffered any damage or breakage.  
Periodically check the tightness of the mesh screws as well as the drive shaft screws.  
Always disconnect the equipment from the power supply before cleaning.

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### 9. Troubleshooting

#### Problem / Possible Cause / Solution

##### **The machine does not start**

Safety mushroom switch activated, no power supply, or blown fuse.

Check that the safety mushroom switch is deactivated, verify the electrical connection, and inspect the fuses.

##### **The drum does not rotate**

Manual mode incorrectly activated, PLC error, or mechanical blockage.

Check that manual mode is deactivated, restart the PLC, and ensure no material is blocking the drum.

##### **Irregular rotation or stops during the cycle**

Incorrect rotation control parameters or material overload.

Check speed values, rotation changes, and reduce the load to 50–70% maximum.

##### **Pollen does not separate properly (extraction mode)**

Clogged screens, incorrect mesh size, or excessively wet biomass.

Clean the screens, select the appropriate mesh size, and make sure the material is dry.

##### **Low amount of pollen collected in the drawer**

Insufficient working time or drum speed too low.

Increase the cycle time or the drum speed from the PLC.

##### **Flowers come out damaged or shredded (trimmer mode)**

Excessive speed or too long working time.

Reduce drum speed or shorten the cycle time.

##### **Leaves are not cut properly (trimmer mode)**

Blade tensioned incorrectly or improperly positioned.

Adjust the blade tension until it lightly touches the drum and check that it is correctly placed.

Possible material with excessive moisture.

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### **Abnormal noise or excessive vibrations**

Loose screws, misaligned drum, or improperly fixed screens.

Check and tighten screws, verify drum alignment, and ensure screens are properly secured.

### **Material accumulates inside the drum**

Overloading or insufficient cleaning.

Reduce the amount of product introduced and clean with isopropyl alcohol.

### **The door or drawers do not close properly**

Dirt in the locks or misalignment.

Clean the locking areas and verify correct positioning.

## **10. Technical Data**

### **Parameter / Value**

Power Supply / 110–220 V single-phase

Maximum Consumption / 5 A

### **Dimensions:**

PRESTATIK L1000: 1250 x 1060 x 1450mm / 80kg / 180 litros

Noise Level: 70 dB

Frame, Chassis, and Drums Material: Stainless steel

Screens: Nylon

Blade: Polyethylene

Door: Polycarbonate

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### **11. Warranty**

Motor: 3-year warranty

PLC: 5-year warranty

The warranty does not cover damage caused by improper use, impacts, humidity, or unauthorized handling.

It is recommended to always use original ION+ INDUSTRIES spare parts.

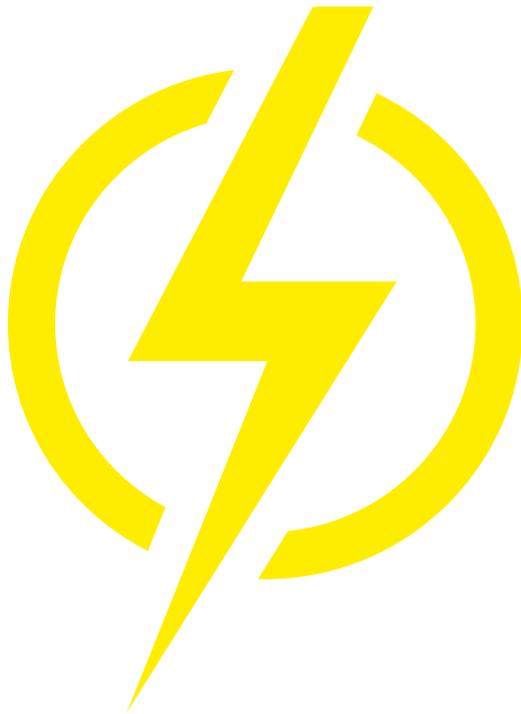
### **12. Technical Support:**

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