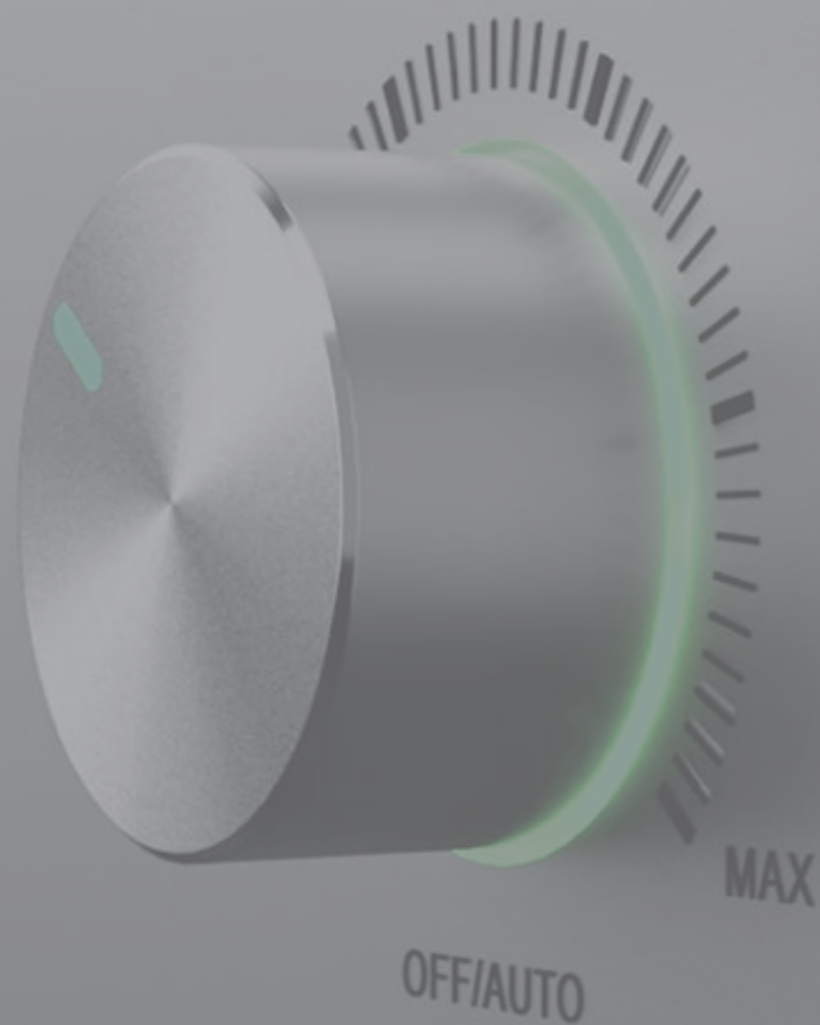


INSTRUCTION MANUAL



01.



<https://wiki.makera.com/en/home>

MAKERA

02.

CONTENTS

Statement-----	02
Safety-----	03
List of Items-----	04
Install Makera Cyclone Dust Collector-----	05
Use Makera Cyclone Dust Collector-----	06
Maintenance-----	07

FCC statement

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

IC statement

This product meets the applicable Innovation, Science and Economic Development Canada technical specifications.

Le présent matériel est conforme aux spécifications techniques applicables d'Innovation, Sciences et Développement économique Canada.

Please read the following warnings and instructions carefully before operating the dust collector.

Usage Environment

Do not use the dust collector in high-temperature environments (above 60°C), near fire hazards, or in areas with flammable liquids or oils.

Ensure proper grounding before operation.

Only qualified professionals should open the rear panel for inspection or repairs, as internal components carry high voltage .

Operation Safety

Do not move or adjust filters or cyclones while the machine is running.

Never touch the rotating impeller with hands or any objects.

Always disconnect the power supply before cleaning or performing maintenance.

Operate the dust collector only within the specified voltage range (refer to the label on the machine).

Turn off and unplug the unit if the power supply is unstable.

Humidity & Maintenance

Operate within a humidity range of 40% to 80%. Exceeding this range may damage internal circuits and reduce filter efficiency.

Filters come with protective packaging—remove it before use.

Filters are disposable—do not wash or reuse them. Always replace them with genuine Filter Cartridge for Makera Cylcone Dust Collector.

Ensure filters are properly installed before operation. Running the dust collector without filters may allow dust to enter the motor and control system, causing damage (repairs will be at your own expense).

Filter Maintenance

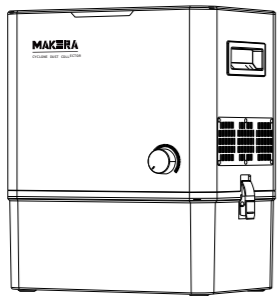
If filters become heavily clogged, stop using the machine immediately to avoid damage.

Regularly clean and replace filters to maintain optimal performance.

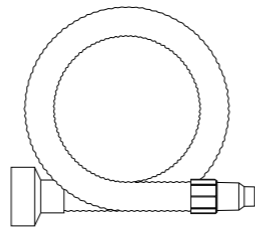
If filters are blocked, inefficient, or malfunctioning, replace them promptly with Filter Cartridge for Makera Cylcone Dust Collector.

Follow these guidelines to ensure safe and efficient operation of your dust collector.

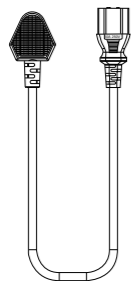
List of Items



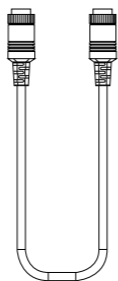
Makera
Cyclone Dust Collector



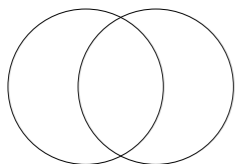
Dust Hose



Power Cable



Control Cable



Laser Filter Cotton

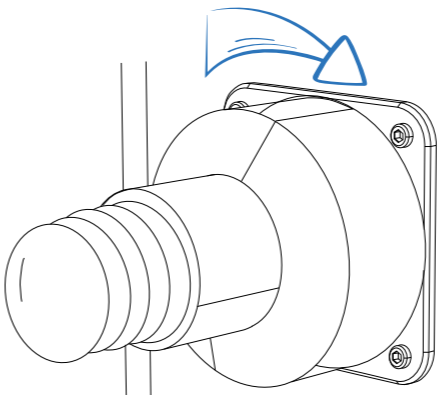


Instruction Manual

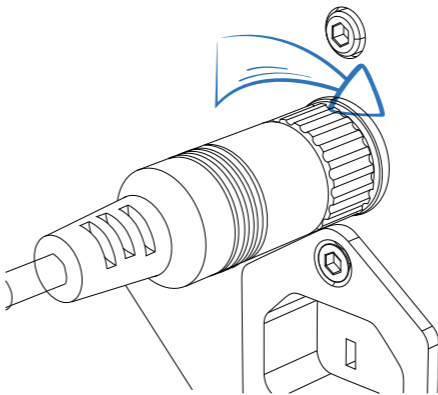
Note:

- The power cable model may vary depending on the region.
- The control cable is compatible with the Carvera Air or the Makera Z1 and can not be directly connected to the Carvera. We will provide an upgrade solution to enable automatic control on Carvera as well.

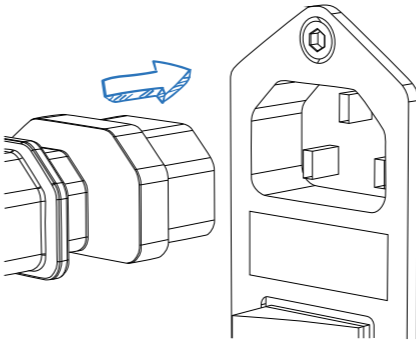
Install Makera Cyclone Dust Collector



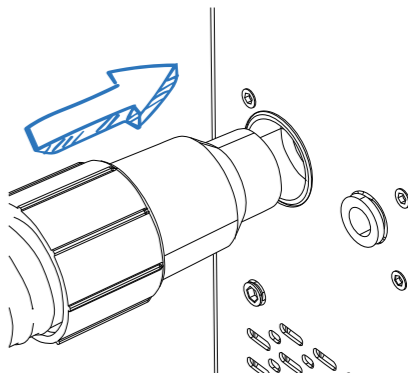
1. Insert the large end of the dust hose into the rear air inlet, then rotate clockwise to lock it in place.



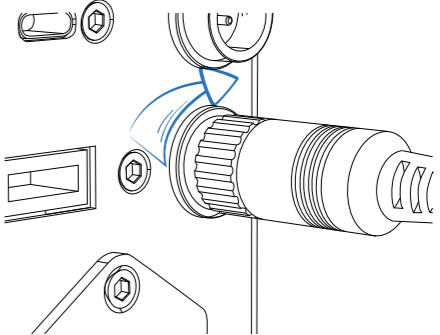
3. Insert the control cable into the 'Control' port on the back of the dust collector, then rotate the nut clockwise to lock it. This port is designed for external control signals. If the external control function is not required, steps 3 and 4 can be skipped.



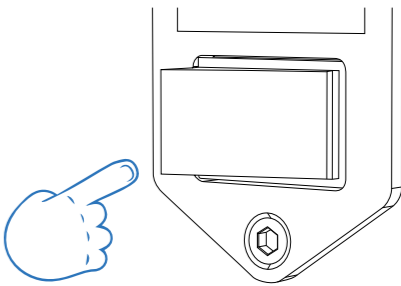
5. Connect the power cable.



2. Insert the small end of the dust hose into the rear dust outlet of the Carvera Air or Carvera or Makera Z1. The small end can also be used to collect dust directly.

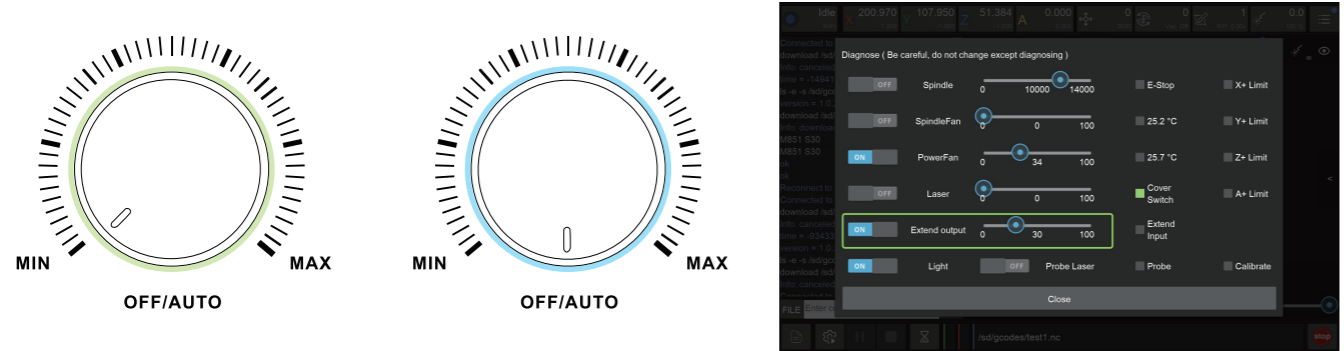


4. Insert the other end of the control cable into the 'Ext' port on the back of the Carvera Air or Makera Z1 and lock it. Alternatively, it can be interfaced with other ports of the same specification that support signal output.



6. Turn on the dust collector.

Use Makera Cyclone Dust Collector



1. Manual Mode:

Rotate the knob clockwise to turn on the dust collector. In this mode, you can manually control the on/off status and the collection power directly via the knob.

2. Automatic Mode:

- Turn the knob to the OFF/AUTO position to enable Auto Control.
- You can test the dust control function in the Diagnostics > Extend Output section in the Carvera Controller.
- Use M851 SXX in your G-code to turn on the dust collector, and M852 to turn it off. (XX represents the suction power percentage)

3.Laser Engraving:

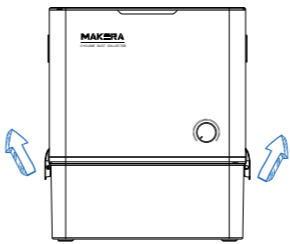
Insert the laser filter cotton into the large end of the dust hose as the first-stage fume filter. This helps extend the life of the main filter cartridge. Remember to remove it when switching back to dust collection mode.

4. Indicator Light Status:

	No Light	The dust collector is powered off.
	Blue	Powered on, idle state.
	Green	Working (dust collection in progress).
	Orange	Temporary air blockage.
	Flashing Orange	Air blocked for over 3 minutes. Please check if the air pipe is blocked or the filter is excessively dusty; replace the filter element if necessary.
	Flashing Yellow	The filter is not properly installed.
	Flashing Red	System error. Please power cycle. If the error persists, please contact Support.

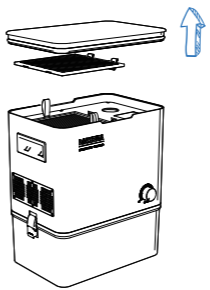
Maintenance

1. Clean the Dust Bin:



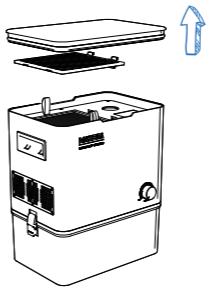
Release the clips on both sides that secure the dust bin, remove the upper part of the dust collector, then clean the dust collection box with a vacuum cleaner or pour directly into the trash can.

2. Clean Filters

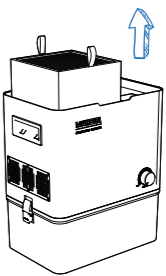


Turn off the power. Open the top cover and the filter cover. Use a vacuum cleaner to clean the dust that has accumulated inside the cavity and on the filters.

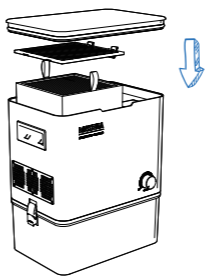
3. Replace the Filters:



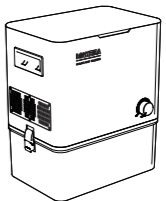
Turn off the power. Open the top cover and the filter cover.



Remove the filter sponge and the filter cartridge.



Insert the new filter cartridge and the filter sponge, reinstall the filter cover, and close the top cover securely.



Turn the power back on. When the indicator light turns blue, the filter replacement is complete.