



MINI-REVOLUTION

COMPACT GRINDING SOLUTION



USER MANUAL V2.4



WARNING
UNPLUG YOUR MACHINE BEFORE
EVERY CLEANING AND MAINTENANCE.
ALWAYS USE IN A WELL VENTILATED
AREA

MINI-REVOLUTION™

USER MANUAL V2.5



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- Table of Contents 1
- Introduction/Getting Started 2
- Components 3
- Material & Faceplate 4
- Pushrod & Hopper 5
- Blade & Wagon Wheel 6
- Operation 7
- Operation (continued) 8
- Safety Information 9-10
- Terms of Business 11-15

WEIGHT & DIMENSIONS Approximately 56 lbs
Machine Dimensions 30" L x 17.5" H x 10-1/2" W

<u>VOLUME CAPACITY</u>	Up to 1 lbs +/- every 2 minutes
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<u>POWER</u>	Standard 110V .25 Horse Gear Motor with a 10:1 Ratio	Full-Load 7 Amps (FLA) 5-1/2 ft. Cord Length
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<u>MATERIALS</u>	6061 food grade aluminum and plastics Encased in 304 stainless steel
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<u>CYCLE CUSTOMIZATION</u>	Single Cycle Operation with Variable Dial
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<u>POWER SUPPLY, LIMIT SWITCH, & ICE CUBE RELAY</u>	CE, SA, UL,EAC listed
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<u>SOFTWARE & UPGRADES</u>	Updates available as necessary
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<u>TRAINING</u>	Video tutorials available
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<u>COMPLIANCE</u>	OSHA Compliant UL-Listed Components 100% Food-Grade
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<u>LIFE CYCLE</u>	10 Years
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<u>OPERATION</u>	Integrated Plunger System
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Thank you for being a valued STM customer. We strive to provide the best product quality and customer service, and your feedback is important to us.

The STM Canna Mini-Revolution Grinder is a compact and efficient tool designed for grinding cannabis and hemp materials. With features like removable parts for easy cleaning and maintenance, adjustable settings for optimal performance, and sturdy construction, it offers convenience and reliability for growers, processors, and enthusiasts in the cannabis industry.



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GETTING STARTED

Upon opening the crate your order arrived in, you will find the Mini-Revolution machine, a box containing your collection bin, coarse blade, and hopper with attachment bolts. Be careful when unwrapping the hopper to not throw away the attachment bolts.

To operate the Mini-Revolution right out of the box, the following steps must be taken:

- Remove the faceplate from the machine.
- Attach the hopper to the faceplate.
- Ensure the blade you are using is secure.
- Attach the joined hopper/faceplate back onto the machine.
- Place the collection bin just under the chute to collect ground material.
- Plug the machine into an appropriate power source and turn on the power switch.
- Flip the on/off switch and set the desired blade rotation speed.
- Load material into the hopper and feed it into the blade via the pushrod.
- Always unplug the machine before disassembly.

TRAINING VIDEO

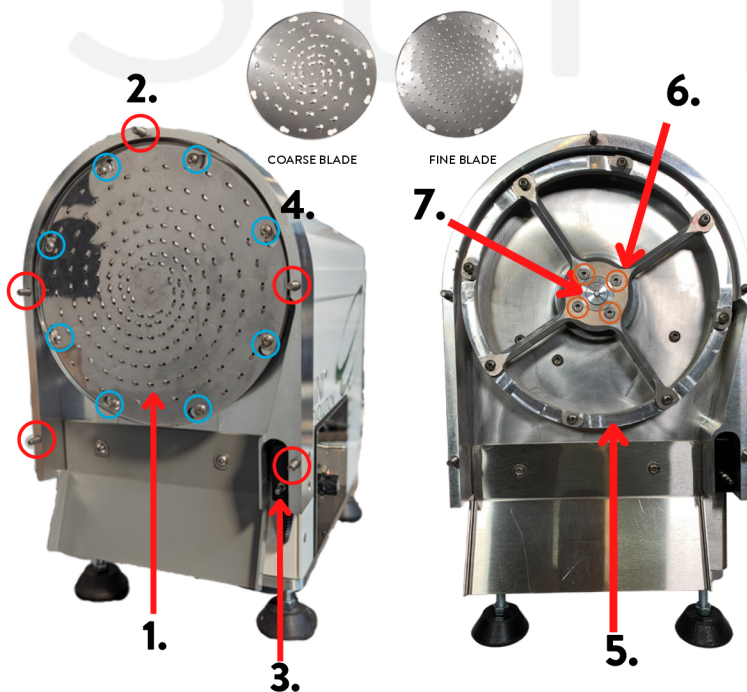
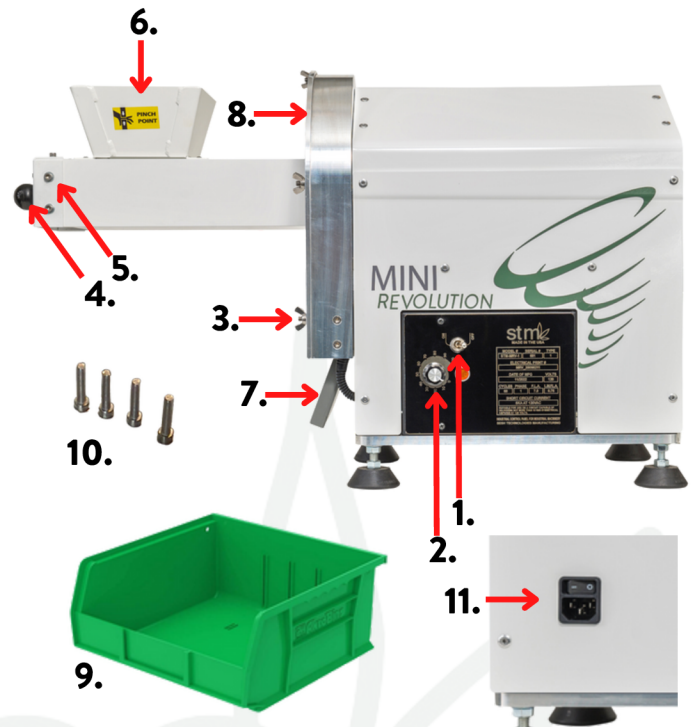
A video is available online for this machine. It is recommended that this manual be used in conjunction with the videos.

Link: bit.ly/2mrR0sA



**Scan to view
training videos**

1. **On/Off Switch** - Initiates blade rotation.
2. **Adjustable Speed Dial** - Controls the speed of the blade.
3. **Wingnuts** - Five wingnuts hold the faceplate in place over the blade chamber.
4. **Pushrod** - Used to feed material into the blade as it is depressed.
5. **Pushrod Guard** - Prevents the pushrod from being removed.
6. **Hopper** - Where material is inserted for grinding.
7. **Chute** - Material exits from here after grinding.
8. **Faceplate** - Connects to the hopper to the machine. Mounts over guide rods and is secured in place with the five wingnuts.
9. **Collection Bin** - Used for collecting ground material.
10. **Attachment Bolts** - Used to attach the hopper to the faceplate.
11. **Power button/Plug-In** - Turns the machine on and off. Located on the opposite side of the on/off switch.



1. **Blade** - Comes in coarse and fine patterns.
2. **Guide Rods (red circles)** - Used in conjunction with the five wingnuts to attach the faceplate to the main unit.
3. **Limit Switch** - Prevents the machine from running if the face plate is not attached.
4. **Blade Hex Screws (blue circles)** - Used to hold the blade securely in-place during operation.
5. **Wagon Wheel** - Circular frame that spins the blade when attached.
6. **Wagon Wheel Bolts (orange circles)** - Used to fasten the wagon wheel to the HUB.
7. **HUB** - Shaft that connects the wagon wheel to the machine.

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Before operating your Mini-Revolution Grinder, ensure that the material you are using meets STM Canna's recommended conditions. This will help maintain proper function and quality.



- Ensure the material has a moisture content of 9% or less.
- Use nuggets no larger than the size of a thumb.
- Load no more than 1/2 oz of material at a time, gradually increasing the amount if desired quality is maintained.
- Remove as many stems and seeds as possible before grinding.

FACEPLATE

REMOVING THE FACEPLATE

1. Loosen and remove the five wingnuts from the guide rods extending through the faceplate. Be sure to hold the faceplate securely during this step, as it will fall free from the guide rods once all wingnuts are removed.
2. Pull the faceplate (or hopper, if attached) straight back to remove it.
3. With the faceplate removed, the blade, blade chamber, and safety limit switch will be exposed. The Mini-Revolution is now ready for maintenance, cleaning, or a blade change.



ATTACHING THE FACEPLATE

1. Align the faceplate (with or without the hopper attachment) with the five guide rods around the blade chamber and slip it into place.
2. Secure the faceplate by tightly fastening the wingnuts onto the guide rods extending through it.



Helpful Tip

You can identify the front side of the faceplate by the raised edge bordering the rectangular opening near its center (as shown above). The backside of the faceplate is flat to allow the blade to spin without obstruction.

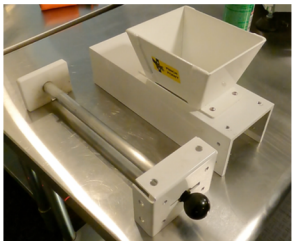
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CLEANING THE PUSHROD

The pushrod for your Mini-Revolution Grinder comes pre-assembled with the hopper. However, after multiple uses, it may require cleaning:

- Wipe off any excess material from the pushrod.
- Spray a microfiber cloth or paper towel with isopropyl alcohol and buff away any residue.
- For a thorough cleaning, disassemble the pushrod by removing the handle.

SUPPLIES NEEDED



- 5/16" Allen Wrench
- 5/32" Allen Wrench
- Spray bottle
- Brush/paintbrush
- Isopropyl alcohol
- Microfiber cloth or paper towel

REMOVING THE PUSHROD

1. Use 5/32" and 5/16" Allen wrenches to remove the pushrod guard bolts connected to the hopper.
2. Pull the pushrod straight back to remove the guard and extract the pushrod from the hopper. For further disassembly, unscrew the black handle.

ATTACHING THE PUSHROD

1. Insert the pushrod through the hole in the faceplate, attach the push plate and handle to the pushrod, and secure the push plate using a 5/32" Allen wrench.
2. Attach the front of the pushrod by screwing the 5/16" bolt into it, then place the pushrod back into the hopper.
3. Align the holes in the faceplate with those on the front of the hopper and tighten the six 5/32" bolts until secure.

HOPPER

REMOVING THE HOPPER

Remove the faceplate/hopper from the unit by unscrewing the five hex screws. Then, use a 5/32" Allen wrench to remove the four attachment bolts and separate the faceplate from the hopper.

CLEANING THE HOPPER

- Use a stain-proof brush or a similar tool to remove dry material. If possible, use compressed air to clear away any remaining debris.
- Spray a microfiber cloth or paper towel with isopropyl alcohol and buff away any residue.

SUPPLIES NEEDED

- 5/32" Allen Wrench
- Spray bottle
- Brush/paintbrush
- Isopropyl alcohol
- Microfiber cloth or paper towels

ATTACHING THE HOPPER

Hold the hopper so that the four bolt holes on the opposite side of the pushrod align with the bolt holes on the front side of faceplate. Feed the four attachment bolts through the holes from the backside of the faceplate, then use a 5/32" Allen Wrench to tighten them.

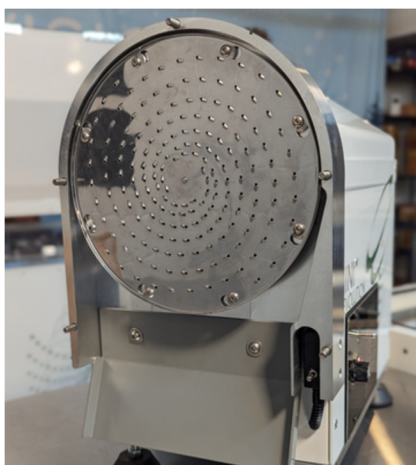


CLEANING THE BLADES

1. Remove excess material from the blade and surrounding areas using a brush.
2. Spray a microfiber cloth or paper towel with isopropyl alcohol and buff away any residue.
3. For a deeper clean, scrub the blades with a nylon brush.

SUPPLIES NEEDED

- 1/8" Allen Wrench
- Cut-proof gloves
- Isopropyl alcohol
- Spray bottle
- Brush/paintbrush
- Microfiber cloth or Paper towels
- Dish soap (optional)



REMOVING THE BLADES

1. Using a 1/8" Allen Wrench to loosen the 8 blade hex screws, located on the outside edge of the blade.
2. Loosen the bolts halfway and spin the blade counterclockwise to release the blade from the locking holes.
3. Pull the blade away from the machine and bolts to remove it.

ATTACHING THE BLADES

1. Hold the backing plate steady while installing the blade.
2. Place the blade onto the eight loosened hex screws and turn it clockwise until it stops.
3. Use a 1/8" Allen wrench to tighten the eight blade hex screws.

"Wagon Wheel"(Backing Plate)

REMOVING THE BACKING PLATE

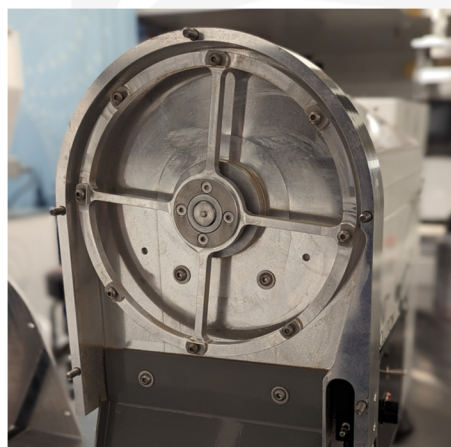
1. Ensure that the blade has been removed from the backing plate.
2. Using a 1/8" Allen Wrench, remove the four wagon wheel bolts located in the center of the backing plate.
3. Pull the backing plate from the HUB.

ATTACHING THE BACKING PLATE

1. Place the backing plate onto the HUB.
2. Insert and screw in the four wagon wheel bolts with a 1/8" Allen Wrench in the holes located in HUB.

CLEANING THE BACKING PLATE

1. Remove excess material from the backing plate and surrounding area using a brush.
2. Spray a microfiber cloth or paper towel with isopropyl alcohol and use it to buff away any residue, wiping the part clean.
3. For a deeper clean, scrub the backing plate with a nylon brush and dish soap.



POWERING ON THE MINI-REVOLUTION

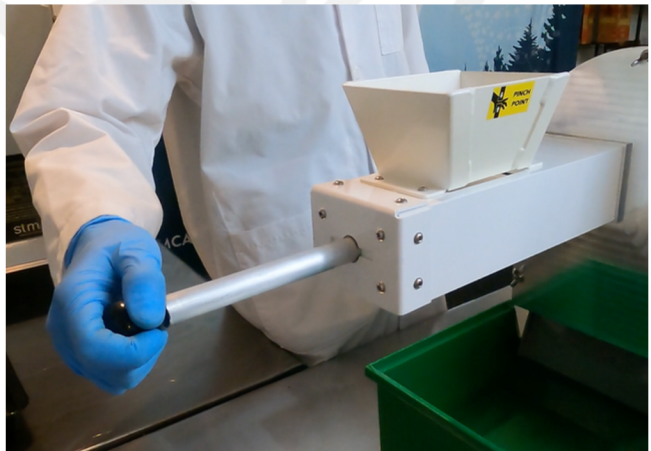
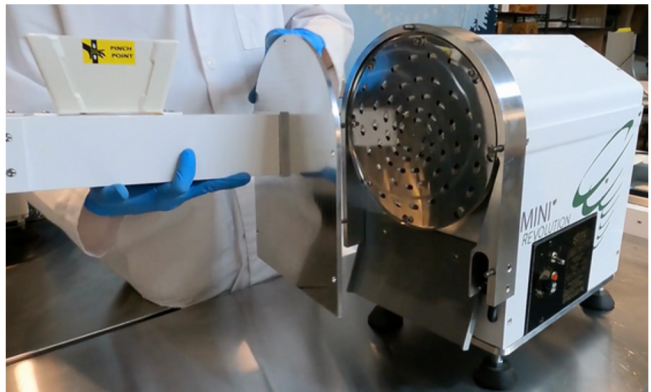
1. Plug the machine into a 120v outlet and ensure the rear power switch is in the "open (O)" position.
2. Flip the rear power switch to "closed (-)" and turn the front on/off switch to "on" until the adjacent orange light illuminates.
3. Use the speed dial to select the desired blade speed.

USING THE MINI-REVOLUTION

1. Ensure the hopper and faceplate are fully assembled, properly joined, and securely attached to the machine, with the desired blade locked into the backing plate.
2. Pull the pushrod back and insert the suitable material into the hopper.
3. Push the material forward with the pushrod into the blades, holding it forward until the material is fully ground.
4. Pull the pushrod back after the material has been processed.
5. Repeat steps 2 through 4 until the desired amount of material is ground.



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Helpful Tips



- To ensure that you do not overfill the hopper, material should be even with the bottom of the hopper's funnel.
- Sift material with a sieve to create a more uniform and desired product if necessary.
- Ensure that your collection bin is placed below the chute to collect ground material.

SAFETY PRECAUTIONS

General Safety:

- Only trained and authorized personnel are permitted to operate STM Canna pre-roll machinery
- Never operate the machinery if you are feeling unwell, fatigued, or under the influence of drugs and alcohol
- Familiarize yourself with the machine's operating manual and emergency shutdown procedures before operation
- Keep the work area clean and free of debris
- Report any malfunctions or safety hazards immediately to the supervisor
- Do not attempt to repair or modify the machinery unless specifically authorized and trained

Ventilation:

- All STM Canna pre-roll machines must be operated in a well-ventilated area. Ensure adequate airflow to minimize the accumulation of dust, kief, and other airborne particles. This may require the use of a local exhaust ventilation (e.g., dust collection systems) in addition to general room ventilation
- Regularly inspect and maintain ventilation systems to ensure their effectiveness

Personal Protective Equipment (PPE):

- The following PPE must be worn at all times when operating or near the STM Canna pre-roll machinery
 1. Safety glasses: ANSI Z87.1 approved safety glasses with side shields are required to protect against flying particles
 2. Dust Mask/Respirator: A NIOSH-approved N95 or higher respirator or dust mask is required to protect against inhalation of dust and kief. (Specify the appropriate respirator type based on risk assessment and consultation with safety professionals. Higher levels of protection, such as powered air-purifying respirator (PAPR), may be required depending on the environment and materials being processed.)
 3. Gloves: Appropriate gloves (e.g., nitrile, latex-free) should be worn to maintain hygiene and prevent contamination of the product
 4. Hearing Protection: If noise levels exceed 85 dbA, hearing protection (e.g., earplugs or earmuffs) must be worn. Conduct a noise assessment to determine the required level of protection
 5. Lab Coat/Smock: A lab coat or smock is recommended to protect clothing from contamination

Machine-Specific Safety:

- Never bypass or disable safety interlocks, sensors, or guards
- Ensure all guards and safety features are in place and functioning correctly before starting the machine
- Keep hands and other body parts away from moving parts
- Do not reach into the machine while it is operating
- Use caution when handling sharp objects or tools

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SAFETY PRECAUTIONS

CONTINUED

Fire Safety:

- Keep flammable materials away from the machinery
- Ensure fire extinguishers are readily available and personnel are trained in their use
- In case of fire, follow established emergency procedures

Pre-Operation Checks:

- Inspect the machine for any damage or missing parts
- Ensure all safety guards are in place and functioning correctly
- Verify that the area around the machine is clean and free of obstructions
- Check the material to be processed for any foreign objects
- Turn on the ventilation system
- Put on required PPE

Operation:

- Follow the manufacturer's operating instructions for the specific machine model
- Do not force any parts of the machine
- If the machine malfunctions, stop operating immediately and report the issue to the supervisor

Post Operation:

- Turn off the machine and disconnect it from the power source
- Clean the machine according to the manufacturer's instructions
- Remove and dispose of PPE properly
- Clean the work area
- Record any issues or maintenance performed in the machine's logbook

Maintenance:

- Regular maintenance is crucial for safe and efficient operation
- Only trained and authorized personnel should perform maintenance on the machinery
- Follow the manufacturer's maintenance schedule and procedures
- Lock out and tag out the machine before performing maintenance
- Keep maintenance records

Emergency Procedures:

- In case of emergency (e.g., fire, injury, machine malfunction), follow established emergency procedures
- Immediately stop operation of the machine
- Notify the supervisor and first responders
- Administer first aid if necessary
- Document the incident

Training:

- All personnel operation or maintaining STM Canna pre-roll machinery must receive thorough training on this SOP, machine operation, and safety procedures

TERMS OF BUSINESS

Purchasing Terms & Conditions

I hereby confirm that I have thoroughly reviewed and agreed to all terms and conditions herein:

1. I understand that all products are first-come first-serve and that receipt of payment is required in order to receive a confirmed shipping date in the queue. Due to high demands, certain items may have a lead time of 4-8 weeks or more from payment date, unless otherwise stated.
2. I understand and agree that following the receipt of my invoice, STM Canna must receive payment within a maximum of 7 days before the invoice expires – leaving lead times, quoted prices, specials and discounts on all items subject to change.
3. I understand that if a deposit is applicable for any special reason, my deposit is non-refundable.
4. I agree to the Customer Awareness Program and Terms of Business herein.

Customer Awareness Program (C.A.P.)

STM takes pride in the products we make and the services we offer. To ensure our customers fully understand the services we provide, along with the capabilities and expectations of our products, we have executed and outlined the Customer Awareness Program contents below:

1. A 12-month warranty on each product that is applicable with regards to manufacturer's defects, including parts and labor.
2. STM Client Services department is dedicated to ensuring the success and satisfaction of all STM clients. As such, product on-boarding programs are provided to familiarize our clients with their new equipment.
3. STM Tech department provides our clients with all software updates, phone support and onsite support, as needed.
4. Training with our technicians to train your staff on best practices to accomplish your desired results for a quality finished product.
5. An easy-to-use client portal with tools such as product F.A.Q.'s and Best Practices, along with an extensive video library to help guide you towards success with your STM equipment.

Expectations & Capabilities of Equipment

STM RocketBox Pro, RocketBox 2.0 & STM Mini-RocketBox

With training from our on technical training staff, you can expect to receive a complete and comprehensive training program to educate your team on best practices, as well as the cleaning and maintenance of your machine and accessories.

Any and all RocketBox series machines must have liner bags in them during use or warranty will be voided. The RocketBox Pro and Mini use standard 10 gallon trash liners. The liners prevent material from getting inside the machine and for easy clean-up. The RocketBox 2.0, uses a 100 gallon liner. For more information, refer to the machines manual or reach out to Client Services.

By following the guidelines provided to you via the user manual and training, you will be able to produce a quality and consistent product that will be easily repeatable.

The shaker box within the machine contains an area where material may escape during operation. With the 400-hour break-in period, STM advises against re-purposing this excess waste due to potential metal contaminants residing in the shaker box from regular usage.

Results are not guaranteed and can greatly vary from operation to operation. `

STM Revolution 2.0 and Mini-Revolution

- With the STM Client Success Program, Pre-Grind Checklist and other guidelines provided, you will be able to achieve the highest quality and most consistent grind for your needs.
- For best results and ease of operation, humidity control is necessary. A 10% or lower moisture content is recommended. Although the Revolution may be able to operate at higher levels, it is not recommended and may cause clogs and overheating.
- Safety features are in place to ensure proper use of the machine and are meant to stop operation if handled/operated improperly. The display screen will notify the user if any features are not in the proper state.
- A regular cleaning routine should be in place to ensure proper function and longevity of the Revolution and its blades.
- A Pre-Grind Check List is conveniently located next to your display unit. (2.0. Version Only)
- Results are not guaranteed and can greatly vary from operation to operation.
- **Always use STM equipment in a well ventilated area and with proper PPE if needed.**

STM LaunchPad

Installation is to be performed by STM Canna Technicians Only

Confirm the installation location meets the following criteria:

- The surface is stable, level, and vibration-free.
- Away from direct sunlight, heat sources, and drafts.
- Climate control to maintain 64° f – 77° f operating temperature range with XX% humidity.
- LaunchPad is accessible for routine maintenance and calibration.
- Be aware of the proximity to other equipment. Ensure the LaunchPad scale is positioned away from equipment that generates heat, vibration, or fumes.
- Confirm the shipping crate security seal is intact and that the LaunchPad scale has been in the final.

Install location for 24 hours before the STM Canna technician's arrival:

Verify Power Quality:

- The circuit is dedicated to the LaunchPad and has its own earth-ground probe.
- 110–120-volt AC at 15-20 amps. < 4VAC neutral to earth.
- STM Canna supplied a UPS/Surge protector between the outlet and LaunchPad scale.

Safety considerations: Prioritize safety during installation and operation:

- Follow proper lifting techniques when moving or installing the scale to avoid personal injury or damage to the equipment.
- Adhere to any safety protocols or guidelines specific to the lab environment, such as wearing appropriate personal protective equipment (PPE) when working with hazardous substances.

Atomic Closer and Astro Infuser

Safety considerations: Prioritize safety during installation and operation:

- Follow proper lifting techniques when moving or installing the scale to avoid personal injury or damage to the equipment.
- Adhere to any safety protocols or guidelines specific to the lab environment, such as wearing appropriate personal protective equipment (PPE) when working with hazardous substances.

TERMS OF BUSINESS & WARRANTY

Who is Covered: Please note that results with STM Canna & STM Supply products can yield varying results which depend on a myriad of factors, including but not limited to: correct grind size, age of material, quality of material, moisture content, strain, temperature, correct sized cone usage, quality of cones used, skill of the operator, and more. Our quoted weight ranges for flower, and trim are all general averages that have been reported to us by our customers, however your material may behave completely differently. We take no responsibility whatsoever for your results, only for the working functionality of our products. If you have any questions or concerns, please do not hesitate to talk to us about this very important disclaimer.

Extent of Warranty:

There are no warranties on paper products. Machines come with a 1-year parts and labor warranty. See Returns below.

Troubleshooting:

- Reference your instruction sheet and double-check all instructions.
- Always take time to examine problems in detail.
- When all else fails, please call the STM technical support line at (509) 204-3164 or email us at clientservices@stmcanna.com.

The technical line is open 9:00am – 5:30pm Monday through Friday, Eastern Time. Please have the following information handy: Name of Company the purchase was made under, Date of Purchase, and Serial number.

Terms:

All orders must be paid in full before the order is placed. Order quotes expire within 7 days. STM Canna & STM Supply reserve the right to specify collection by certified check, money order, or company check. Personal checks are not accepted.

Shipping:

All orders must be paid in full before the order is shipped. Order quotes expire within 10 days.

Orders received will fall in line and be serviced accordingly where the shipment date may be sooner than originally quoted. We will ship by the most reasonable means based on the volume of the order, unless otherwise specified. For international orders, border and customs-related costs are the responsibility of the purchaser.

Special Orders:

All special-order items must be paid in full before the order is placed. These items are non-returnable and no refund will be given. All special-order items will also take a longer period of time for the customer to receive, which will be quoted at the time of payment.

Liability:

The purchaser of any products releases the manufacturer of those parts and STM Canna from all liabilities pertaining to use of the products.

Returns:

No Refunds/Exchanges: We do not accept returns or exchanges unless the item purchased is defective. All items that we ship are insured; if an item comes that is damaged from shipping, we will work closely with you to get you replacement parts as soon as possible. We may also request pictures or other identifying information to establish that damage was caused by the shipping carrier.

In the event of an approved refund or exchange at STM Canna's discretion, there will be a minimum 25% restocking fee.

If you receive an item you believe is defective, please contact us with details of the product at (509) 204-3164 or email us at clientservices@stmcanna.com.

We may ask you for pictures, video, descriptions, and other identifying information to make a determination. If you are unable to provide adequate documentation requested, your return request will be denied. If your item is deemed defective, which is solely at STM's discretion, we will issue you an RMA # which you will need to place in and on the package. After receiving your RMA #, you may send the item to:

STM Canna
2701 N Van Marter Rd
Spokane Valley, WA 99206

Upon receipt of the returned product, we will fully examine it and notify you via e-mail, within a reasonable period of time, whether you are entitled to replacement as a result of the defect. If you are entitled to a replacement, we will replace the product at no additional cost to you.

Since ownership of product transfers at the FOB point, claims for damaged, lost, or short shipments must be made at the time of receipt.

Technical Questions:

See your local dealer or contact us directly at (509) 204-3164 or email to clientservices@stmcanna.com.



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