



MINI-REVOLUTIONTM

COMPACT GRINDING SOLUTION





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WARNING
UNPLUG YOUR MACHINE BEFORE EVERY CLEANING AND WHEN YOU PERFORM MAINTENANCE

MINI-REVOLUTION™

USER MANUAL V2.2



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<u>WEIGHT & DIMENSIONS</u>	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
<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
<u>MATERIALS</u>	6061 food grade aluminum and plastics Encased in 304 stainless steel
<u>CYCLE CUSTOMIZATION</u>	Single Cycle Operation with Variable Dial
<u>POWER SUPPLY, LIMIT SWITCH, & ICE CUBE RELAY</u>	CE, SA, UL,EAC listed
<u>SOFTWARE & UPGRADES</u>	Updates available as necessary
<u>TRAINING</u>	Video tutorials available
<u>COMPLIANCE</u>	OSHA Compliant UL-Listed Components 100% Food-Grade
<u>LIFE CYCLE</u>	10 Years
<u>OPERATION</u>	Integrated Plunger System

Thank you for being a valuable and loyal client of STM. Our goal is to bring our customers the very best in product quality and customer service. We value your feedback and use it to evaluate what we should improve and/or update in our existing product line.

The Mini-Revolution Grinder is an incredibly easy to use machine that utilizes a direct feed system to ensure a consistent and even grind of all suitable materials. The speed of the grind is controlled by the user via a pushrod and the grade of the grind is determined by the type of blade being used.



GETTING STARTED

Upon opening the crate your order arrived in, you will find the Mini-Revolution machine and 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.

TRAINING VIDEO

An online version of this manual and a training video are available for this machine. It is recommended that this manual be used in conjunction with it. When looking for a specific operation, refer to the time index listed at the bottom of each section in this manual.

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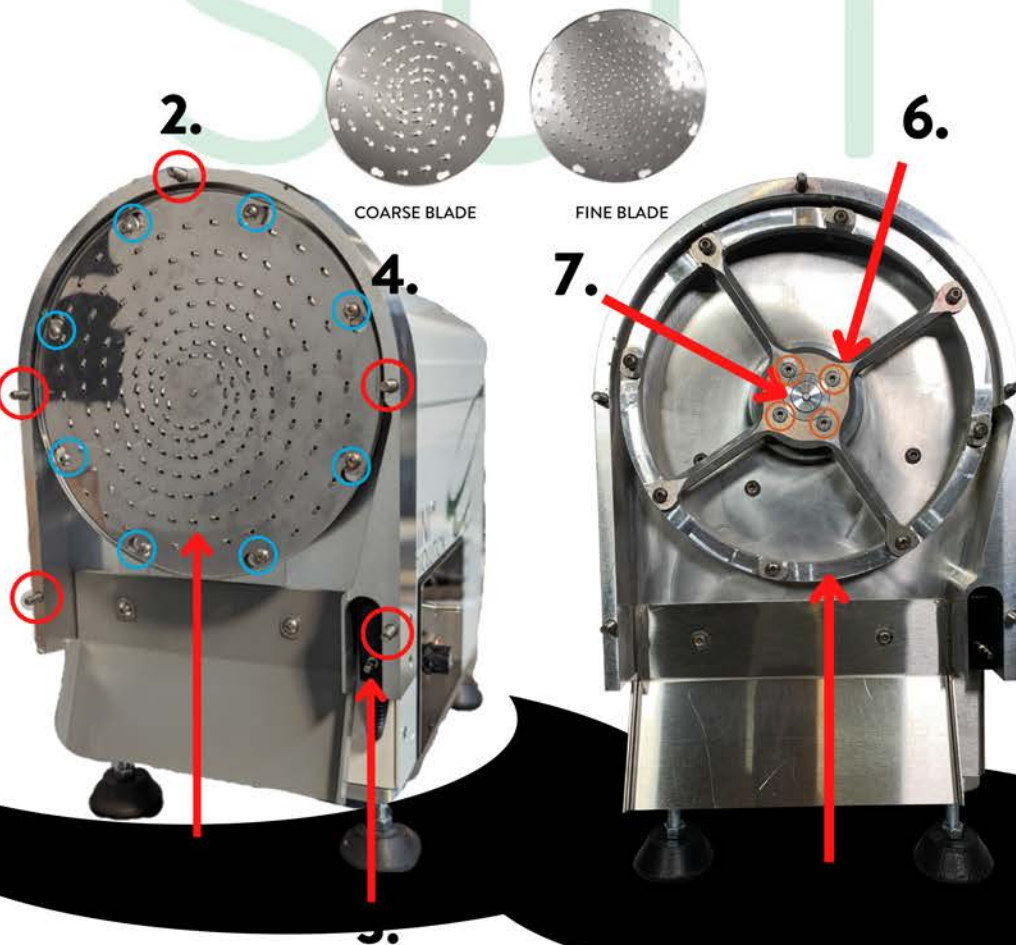
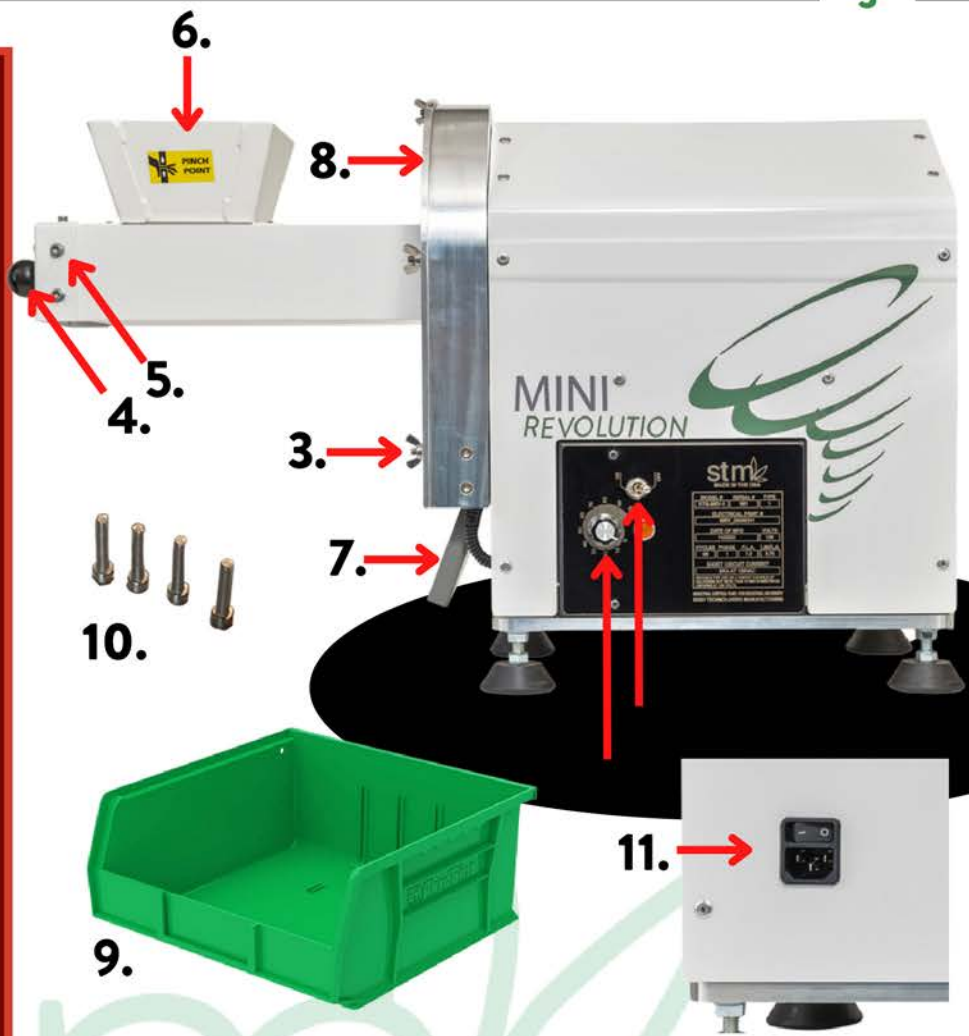


Scan to view
training videos

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 in to 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.

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.

Before operating your Mini-Revolution Grinder, it is important that the material being used meets STM Canna's recommended conditions to ensure proper function and quality.



- A moisture content of 9% or less
- Nuggets the size of a thumb or smaller
- Load 1/2 oz of material at a time at most (the rate can be slowly increased if desired quality is being achieved).
- Remove as many stems and seeds before grinding as possible.

FACEPLATE

REMOVING THE FACEPLATE

1. Loosen and remove the five wingnuts from the guide rods extending through the faceplate. Hold the face plate securely during this step, as the faceplate will fall free from the guide rods when all wingnuts are removed.
2. Pull the faceplate (or hopper if attached) straight back to remove the panel.
3. Removing the faceplate will expose the blade, blade chamber, and safety limit switch. The Mini-Revolution is now ready for maintenance, cleaning, or a blade change.

ATTACHING THE FACEPLATE

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



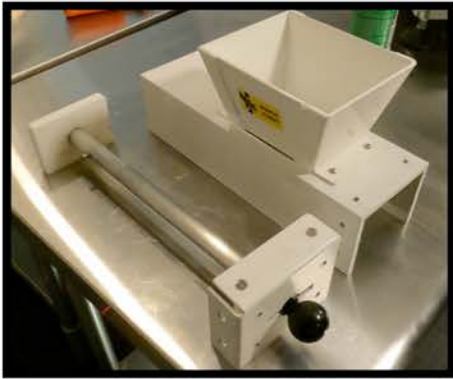
Helpful Tip

The front side of the faceplate can be recognized by the raised edge that borders the rectangular opening near the center of the faceplate (seen above). The backside of the faceplate is flat to allow the blade to spin unimpeded.

CLEANING THE PUSHROD

The pushrod for your Mini-Revolution Grinder will come assembled with the hopper, but over the course of multiple uses, it may become necessary to clean the unit:

- Wipe off excess material from the pushrod.
- Spray a microfiber cloth or paper towel with isopropyl alcohol and buff away any residue.
- For deep cleaning, remove the pushrod assembly, then remove 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. Remove the pushrod guard bolts connected to the hopper using 5/32" and 5/16" Allen Wrenches.
2. Pull the pushrod straight back. This will pull off the guard and pull the pushrod out of the hopper. The black handle can be unscrewed for further disassembly.

ATTACHING THE PUSHROD

1. Place the pushrod through the hole in the faceplate, attach the push plate and the handle to the pushrod, then use the 5/32" Allen Wrench to attach the push plate.
2. Attach the face of the pushrod by screwing in the 5/16" bolt into the face of the pushrod. Place the pushrod back into the hopper.
3. Line up the holes in the faceplate with the holes in the front of the hopper and screw in the six 5/32" bolts until they are tight.

▶ Pushrod: 5:50

HOPPER

REMOVING THE HOPPER

Ensure that the faceplate/hopper is removed from the unit via the five hex screws. Once this is done, use a 5/32" Allen Wrench to remove the four attachment bolts and separate the faceplate from the hopper.

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 HOPPER

- Utilize a stain-proof brush to remove dry material, or something similar. Use compressed air if possible to remove any dry 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



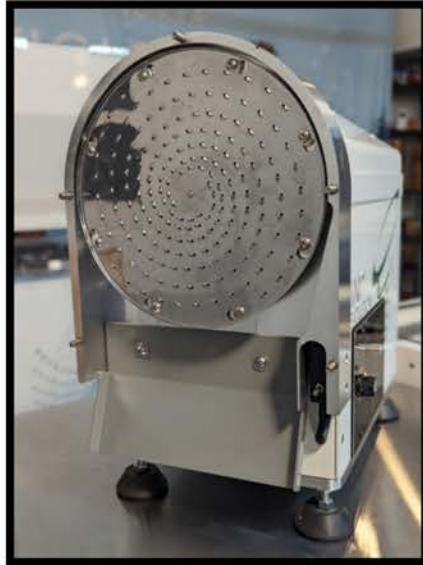
▶ Hopper: 1:31

CLEANING THE BLADES

1. Use a brush to remove excess material from the blade and surrounding areas.
2. Spray a microfiber cloth or paper towel with isopropyl alcohol and buff away any residue.
3. For a deeper clean, blades can be scrubbed 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 counter-clockwise 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 onto the backing plate and keep it in place while installing the blade.
2. Place the blade onto the eight loosened blade hex screws. Turn the blade clockwise until the blade comes to a stop against the hex screws.
3. Screw-in and tighten the eight blade hex screws using a 1/8" Allen Wrench.

▶ Blades: 4:01

"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. Use a brush to remove excess material from the backing plate and surrounding area.
3. Spray a microfiber cloth or paper towel with isopropyl alcohol, then use it to buff away any residue and wipe the part clean.
3. For a deeper clean, the backing plate can be scrubbed with a nylon brush and dish soap.

SUPPLIES NEEDED

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



▶ Wagon Wheel: 5:04



POWERING ON THE MINI-REVOLUTION

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



USING THE MINI-REVOLUTION

1. Ensure that your hopper and faceplate are fully assembled, joined together, and securely attached to the machine with the desired blade locked into the backing plate.
2. Pull the pushrod back and insert suitable material into the hopper.
3. Push material forward with the pushrod into the blades and keep the pushrod held forward until the material has finished being ground.
4. Pull pushrod back after material has been fed. Repeat steps 2 thru 4 until the desired amount of material has been ground.



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.

PURCHASING TERMS & CONDITIONS

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. Following the receipt of an 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. If a deposit is applicable for any special reason, my deposit is non-refundable. Purchaser agrees to adhere 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:

- A 12-month warranty on each product that is applicable with regards to manufacturer's defects, including parts and labor.
- 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. STM Client Services also provides clients with all software updates, phone support, and onsite support as needed.
- Training with our technicians to show your staff the best practices to accomplish your desired results for a quality finished product.
- An easy-to-use client portal with tools such as product FAQ's and "Best Practices", along with an extensive video library to help guide you towards success with your STM equipment.

EXPECTATIONS AND CAPABILITIES OF YOUR STM EQUIPMENT: STM MINI-REVOLUTION GRINDER

With help from our Client Services team, 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. 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.

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: Quality of the product, moisture content of the product, user error and more. 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 support@stmcanna.com.

The technical line is open 8:00am – 4:00pm Monday through Friday, Pacific 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 shipped. Order quotes expire within 10 days. STM Canna & STM Supply reserve the right to specify collection by credit/debit card, bank wire, ACH, certified check, money order, or company check. Personal checks are not accepted.

RETURNS

No Refunds/Exchanges: We do not accept returns or exchanges unless the item purchased is defective. No item will be accepted for return without prior approval. All approved returns must be accompanied with a return authorization (RA) number and must be in new and unused condition. All RA numbers must be clearly displayed on the outside of the box. All returns are subject to restocking fees, not to exceed 20% unless damaged. Refunds are issued in the form of like payment. All refused shipments are subject to a 20% restock fee and all applicable freight charges. 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.

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 support@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
5517 E. Trent Spokane, WA
99212

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.

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.

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.

CLAIMS

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

For all questions related to product functionality or troubleshooting, contact STM Canna's Support Team at support@stmcanna.com.



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