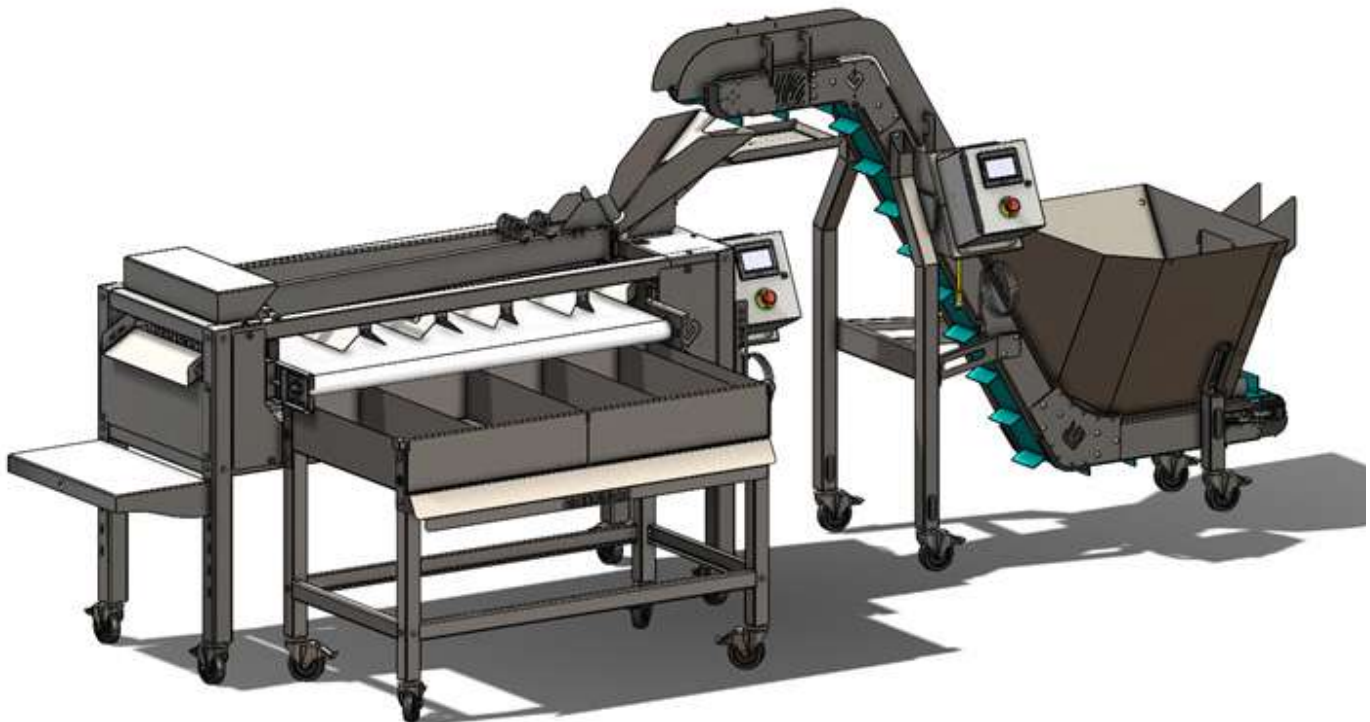




**GREENBROZ**



# RISE-N-SORT SYSTEM

User Manual

GreenBroz.com



# TABLE OF CONTENTS

## **PART 1: Rise Conveyor..... 3**

Machine Parts Identifier.....	4
Unpacking and Installaton.....	5
Hopper Installation.....	5
Belt Installation.....	7
Belt Tensioning .....	11
Primary Wall Installation .....	11
Control Box Installation .....	14
Operation and Shutdown .....	15
Cleaning and Sanitation.....	18
Troubleshooting .....	19

## **PART 2: Precision Sorter .....24**

Machine Parts Identifier.....	25
Unpacking and Installaton.....	26
Hopper Installation.....	27
Divider Installation.....	27
Startup Procedures.....	27
Operation, Shutdown and Cleaning .....	28
Maintenance.....	29
Troubleshooting .....	30
Size Adjustment.....	31

## **PART 3: Sorter Table.....33**

Installation and Operation.....	33
Cleaning and Sanitation .....	35

## **PART 4: Rise-n-Sort System.....37**

Machine Parts Identifier.....	38
Ramp Installation .....	39
Ramp Adjustment .....	41
Cleaning and Sanitation .....	44

## **Other Systems .....45**

## **Warranty Registration.....47**

# PART 1: RISE CONVEYOR



# MACHINE PARTS IDENTIFIER



1. Conveyor Belt: Food safe belt with flights that gently catch and move along material.
2. Flower Ramp: Ramp that allows feeding of the hopper directly from a Model M.
3. Hopper: Can be filled with flower or hemp and smoothly feeds the belt's flights.
4. Flight Sweeps: Adjustable sweeps prevent flower from sticking to the belt's flights.
5. Primary Walls: Removable walls keep the product contained after exiting the hopper.
6. Control Box: Removable for cleaning and houses the touch screen to run the machine.
7. Casters: Wheels that swivel and lock for stability and mobility.
8. Hopper Cradle: Holds the main body of the hopper stably above the belt.
9. Toggle Clamps: Allows the operator to quickly tension and release the conveyor belt.
10. EMERGENCY STOP: This instantly removes all power and halts the Rise Conveyor.

## DIMENSIONS | WEIGHT | POWER

**Approx. Dimensions:** 34in x 66 in x 82in (87cm x 168cm x 209cm)

**Weight:** 200lbs (91kg)

**Feed Rate:** 0-5 lbs./hr.

**Power:** 110VAC, 60Hz 3A 330W (US)

**Power:** 220VAC, 50Hz 1.5A 330W (International)



# UNPACKING & INSTALLATION

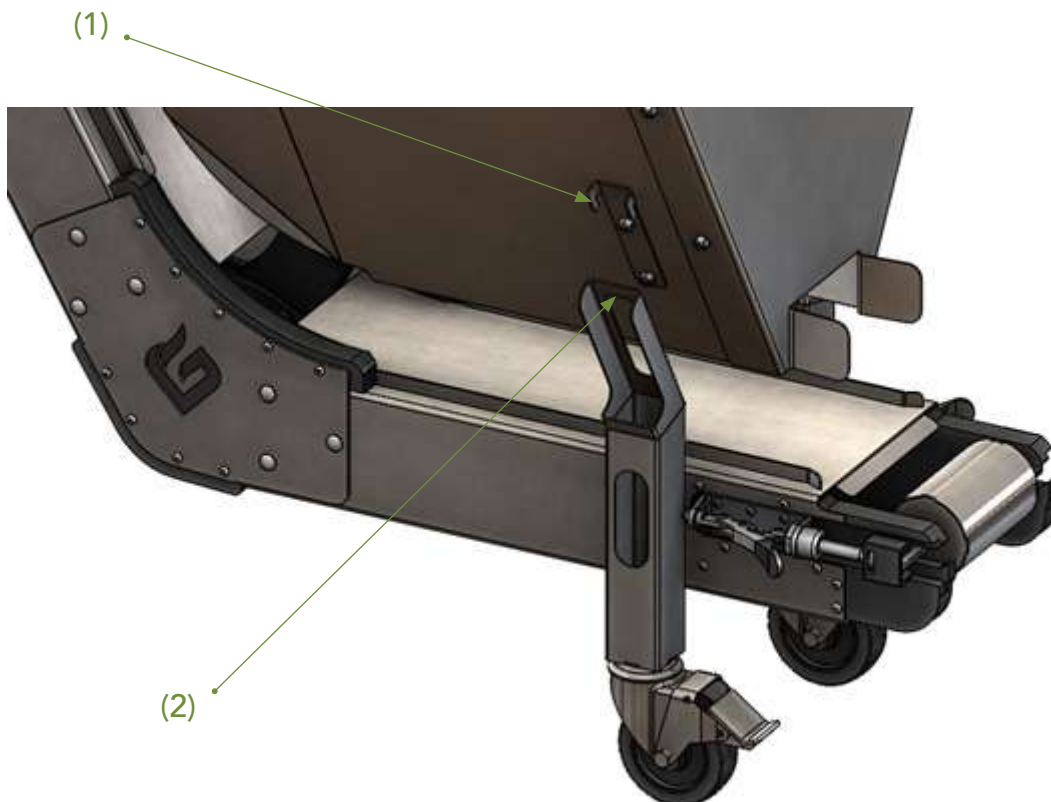
## UNPACKING

All parts noted in this manual will be included with your machine. The Conveyor comes fully assembled.

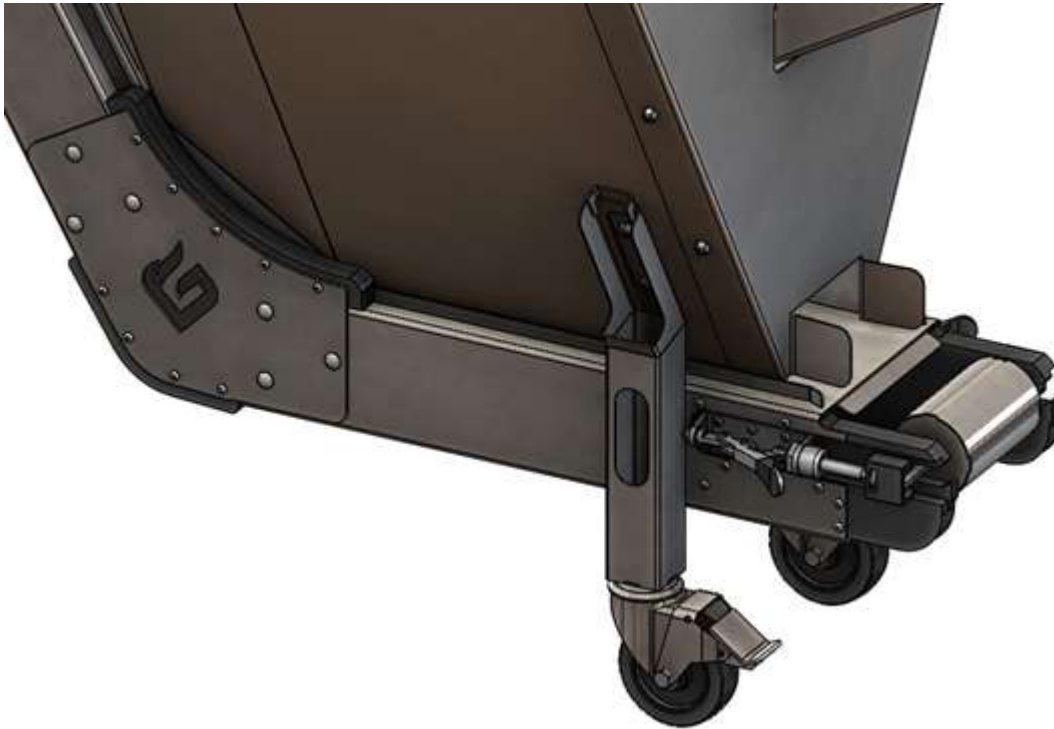
1. Remove the Rise Conveyor from the shipping container and remove all plastic and tape.
2. Remove any additional packaging material from the machine.
3. Ensure the machine is on a level surface and that the wheels are in the locked position.
4. Ensure the master power switch is in the off position and plug the cord into the machine.

## HOPPER INSTALLATION

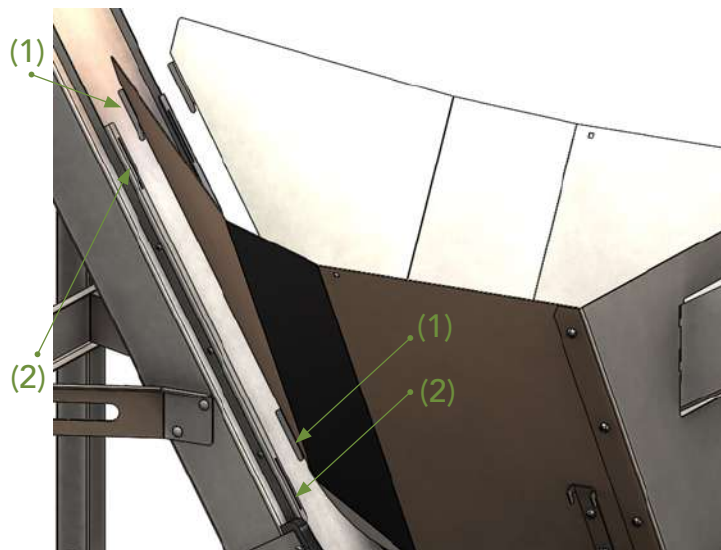
1. Slide the hopper brackets (1) into the two rear hopper cradles (2).



- a. Ensure BOTH hooks are inside the hopper cradles as shown.

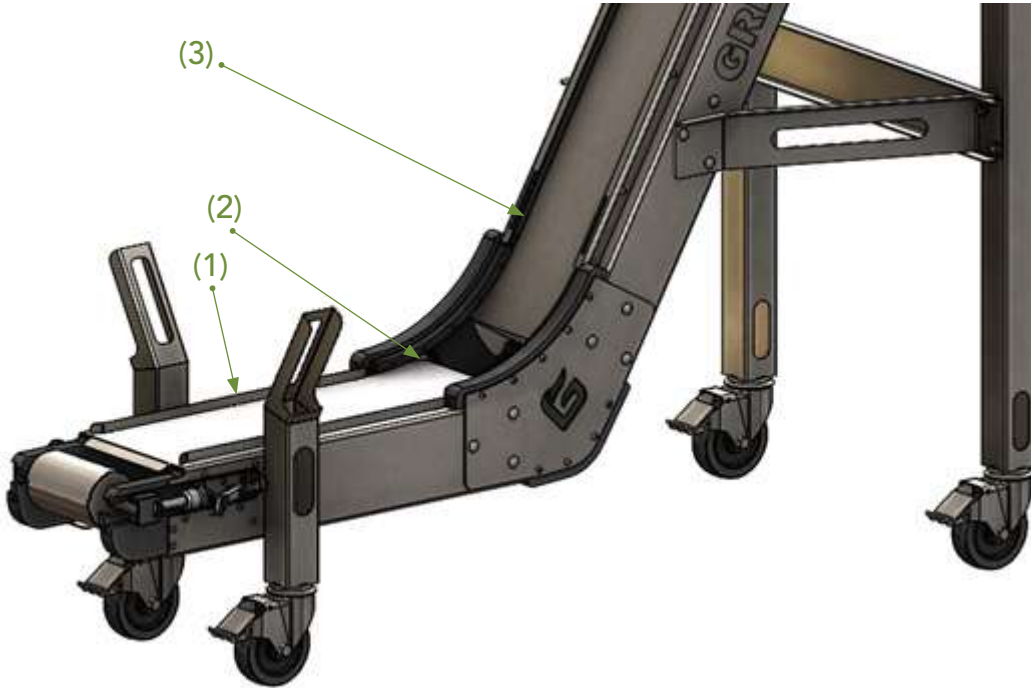


2. Slide the tabs on the walls of the hopper (1) into the slots of the secondary walls (2).



# BELT INSTALLATION

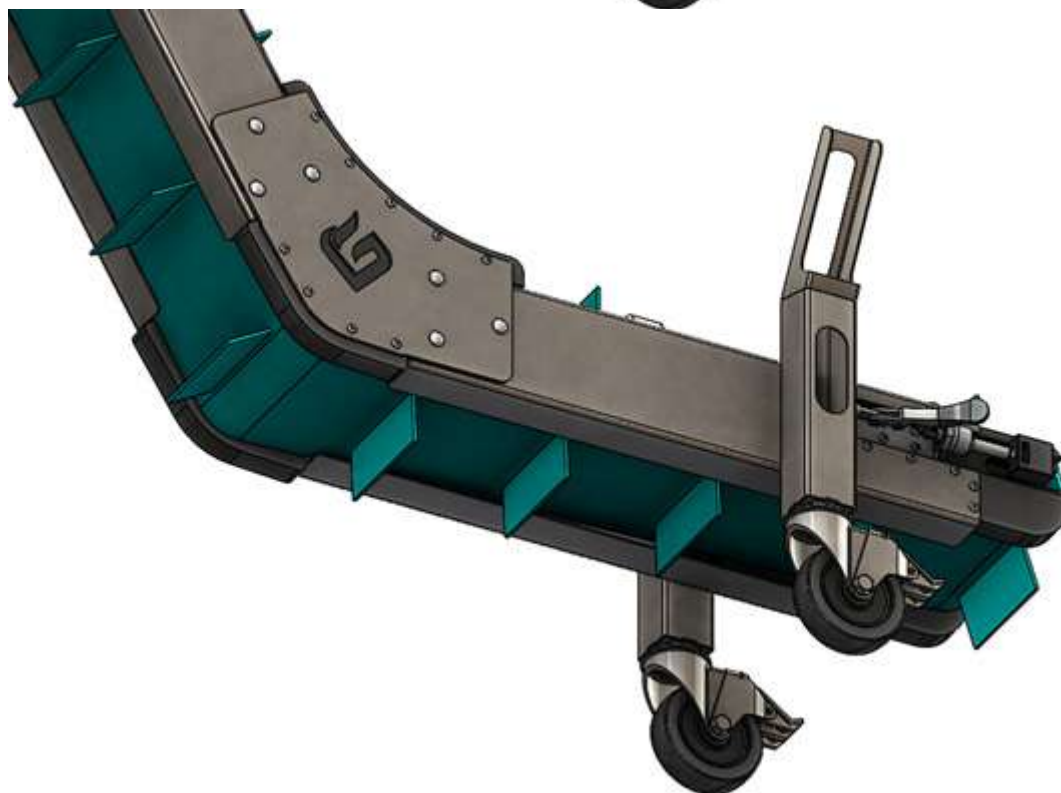
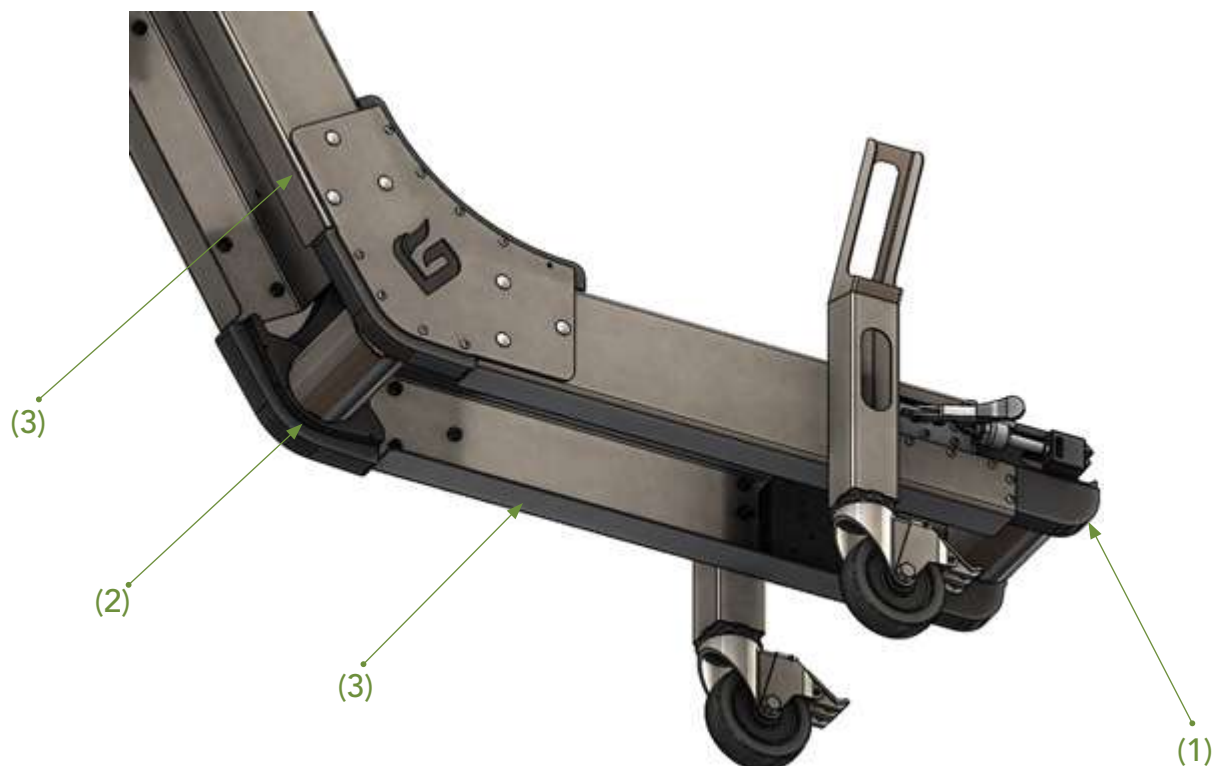
1. Weave the belt through the top section of the machine.
  - a. Start by running the belt between the secondary walls (1), underneath the first guides (2), and under the shake guards (3).
  - b. Continue pulling the belt up to the top of the machine. **Tip:** The belt may slide back down. Use the drive gears (shown in step three) to hold the belt in place.
  - c. This can be done with or without the hopper installed.





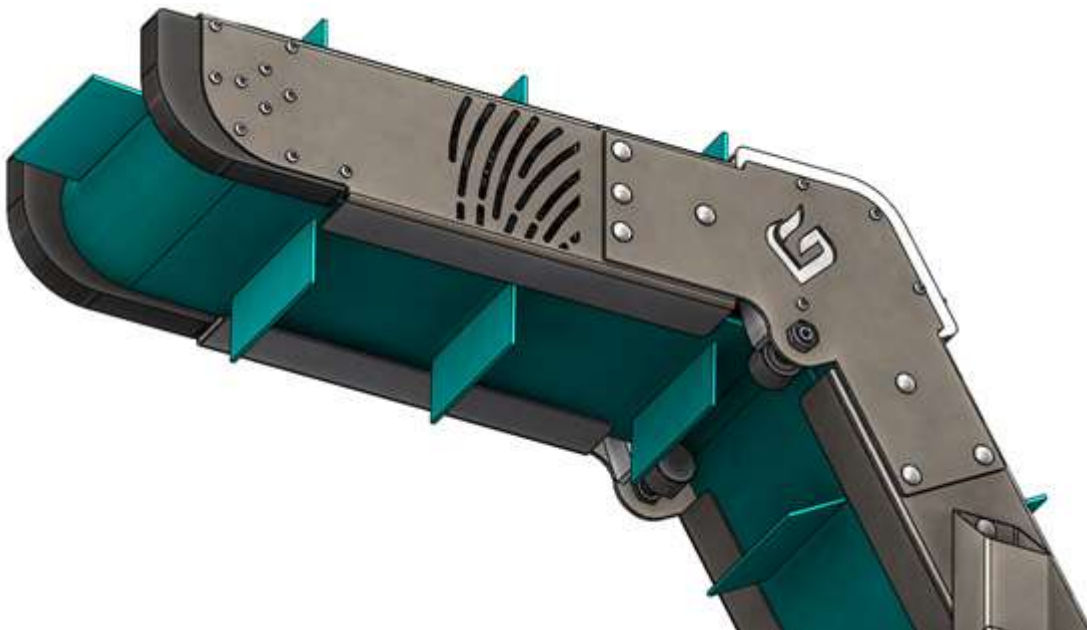
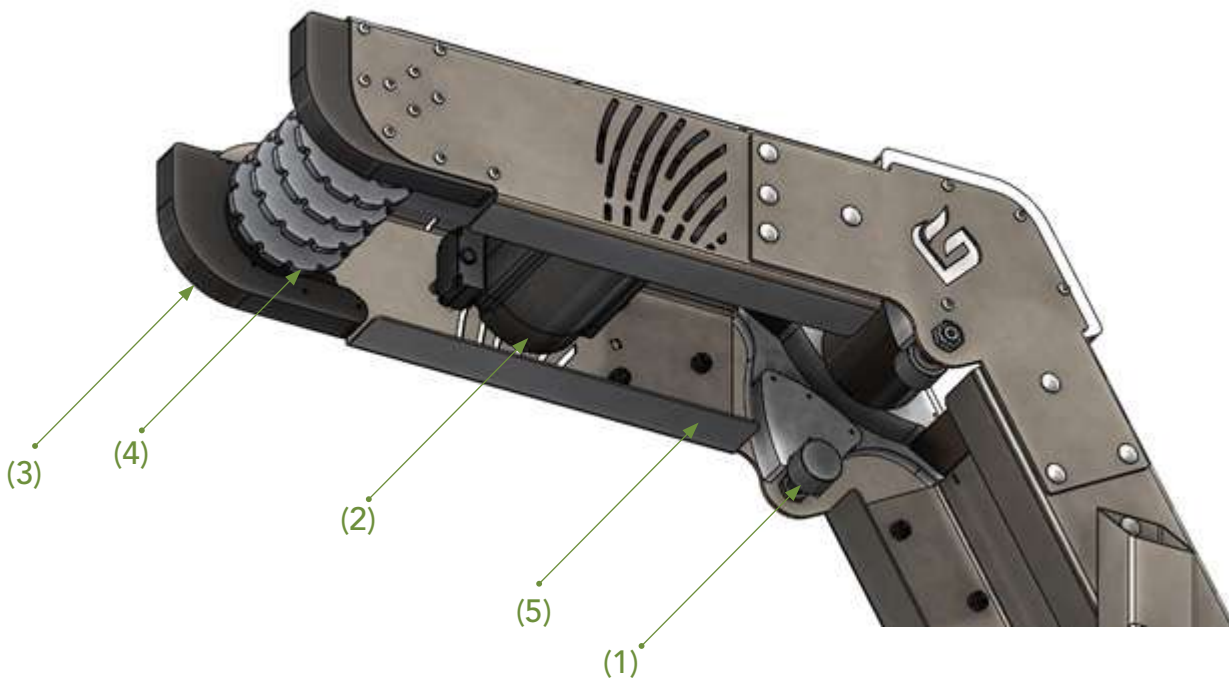
## BELT INSTALLATION

2. With one end of the belt held at the top of the machine, take the other end and start weaving it through the bottom sections of the machine.
  - a. Take the end of the belt and run it through the rear toggle guides (1) and on top of the bottom guides (2). Make sure to keep the belt inside of the flanges of the frame (3).



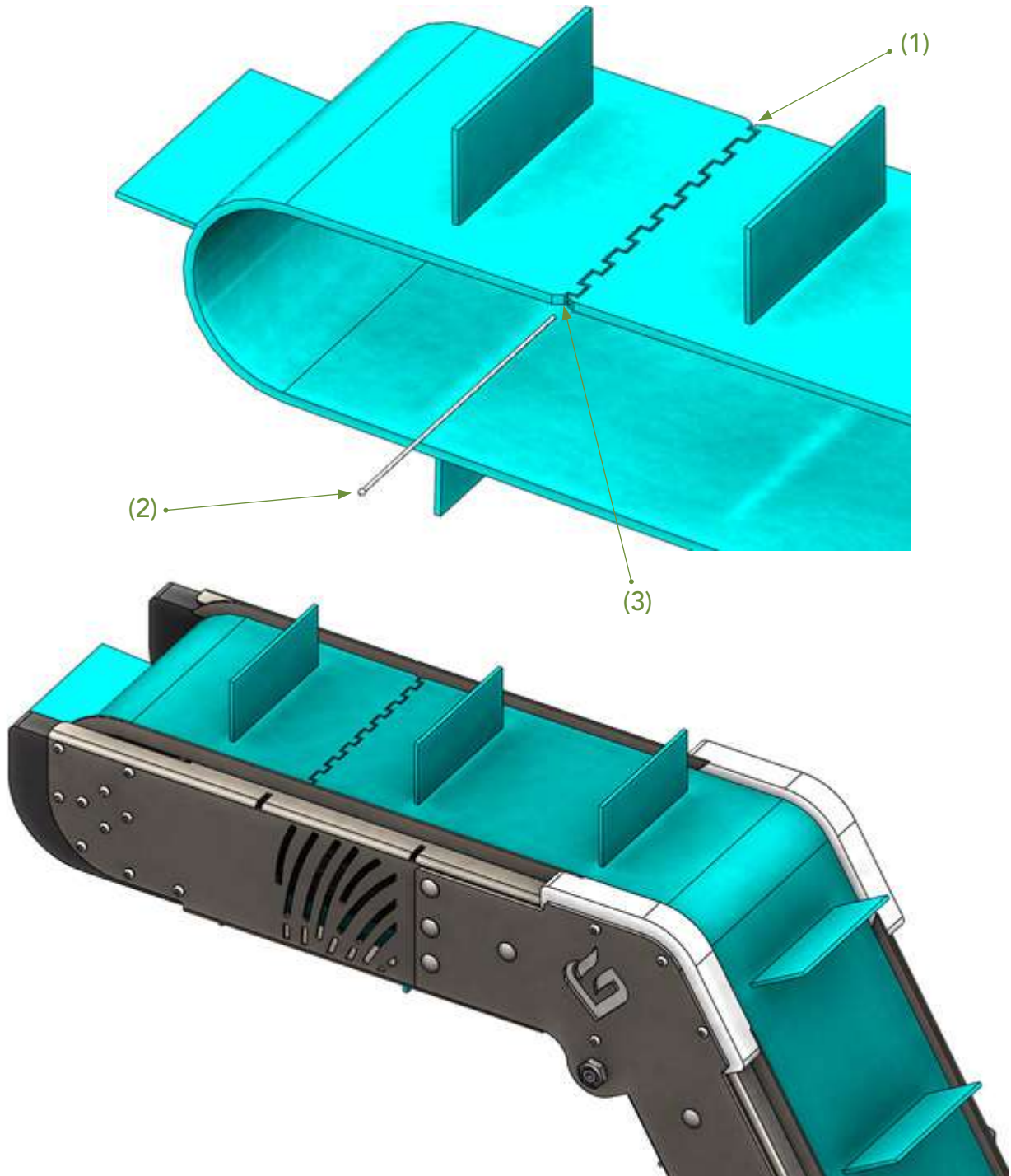
## BELT INSTALLATION

3. Next, you must continue pulling the belt through the bottom of the machine and up to meet the other side of the belt.
  - a. The belt will go above the small rollers (1), below the motor (2), in between the top chain guards (3), and around the drive gears (4). Again, make sure to keep the belt above the flanges of the frame (5).



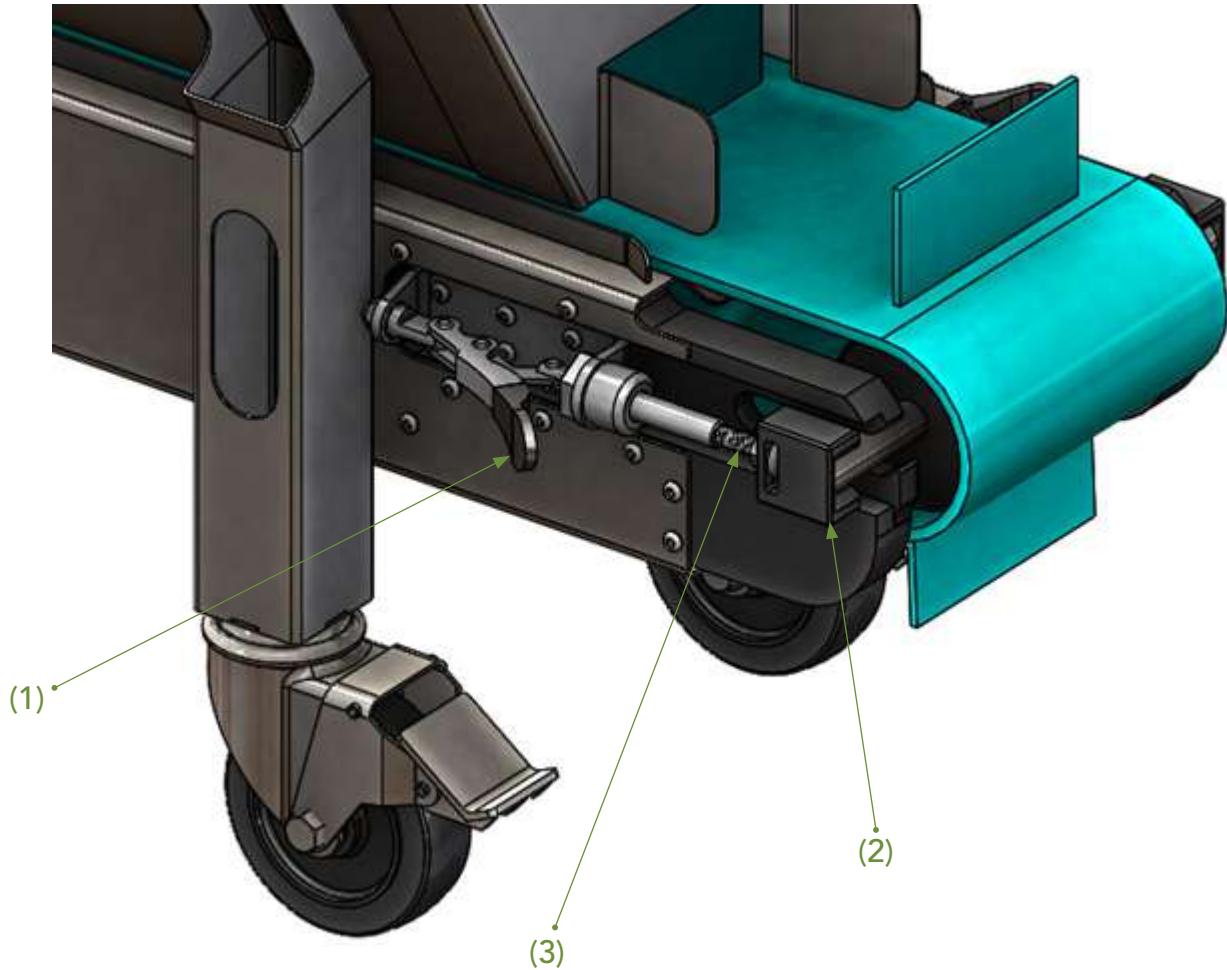
## BELT INSTALLATION

4. Lastly, use the provided stainless steel pin to lock the two ends of the belt together.
  - a. Intertwine the interlocking laces at the two ends of the belt (1). Then, slide the locking pin (2) through the penetrations (3) in each of the laces.
  - b. It is critical that the pin is pushed all the way through and all laces are secured properly.
  - c. The orientation of the pin is not critical. It can be put into either side of the belt.



# BELT TENSIONING

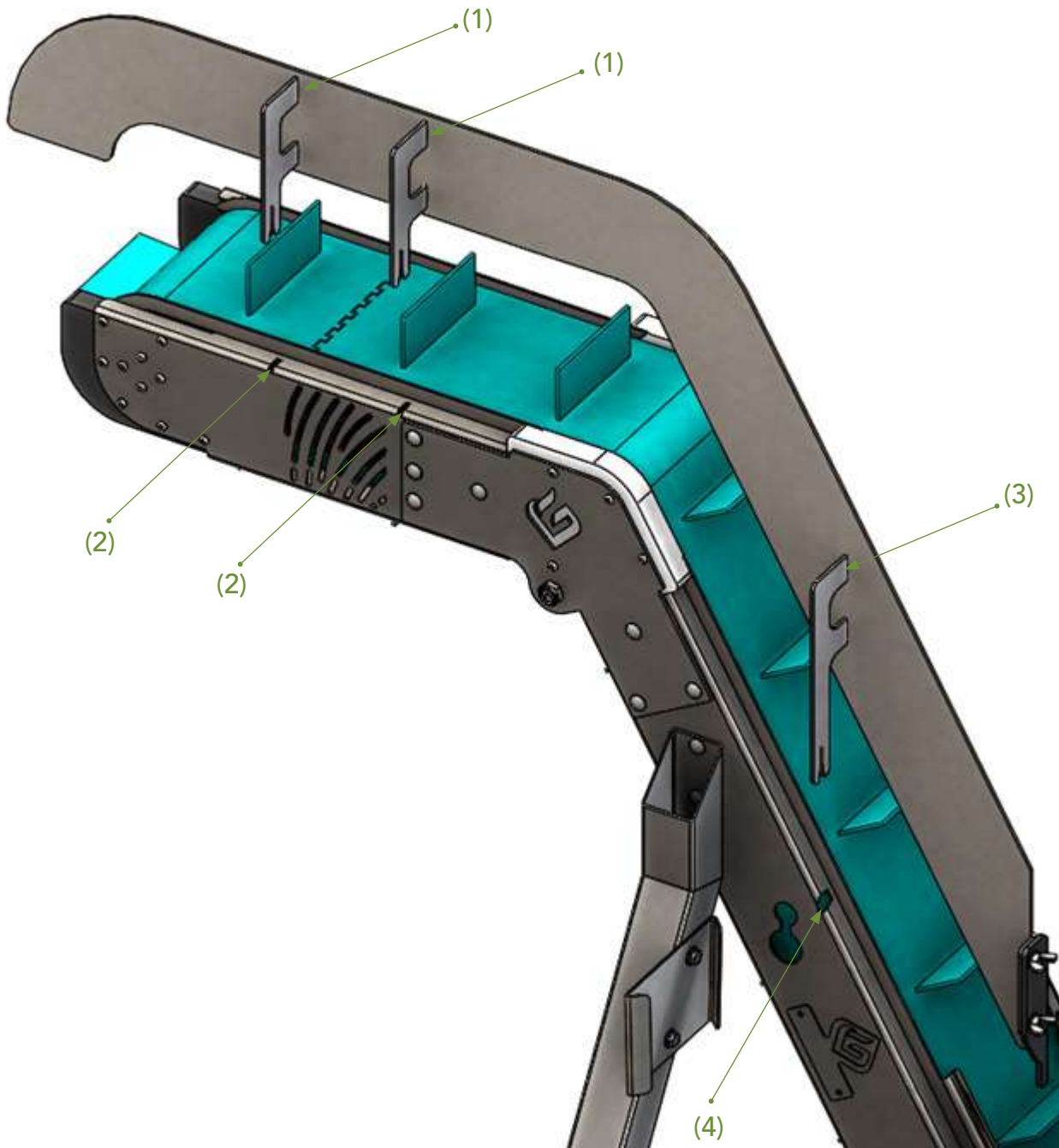
1. The belt must be tensioned before running the machine and de-tensioned for removal.
  - a. The toggle clamps (1) can extend and retract to tension the belt. By spinning the toggle bearing (2) attached to the tensioning bolt (3), the belt can be finely adjusted.
  - b. A new belt should have the tensioning screws fully threaded into the toggle clamp. This gives the belt plenty of tension (DO NOT OVER TIGHTEN - shown extended for clarification).





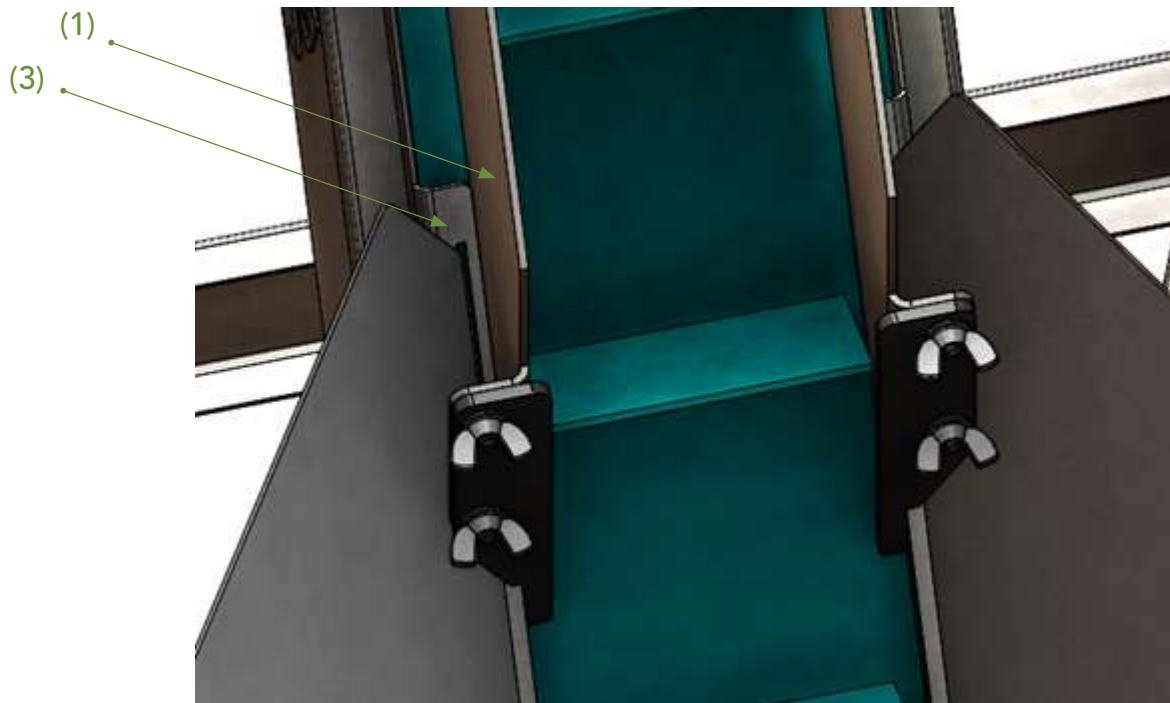
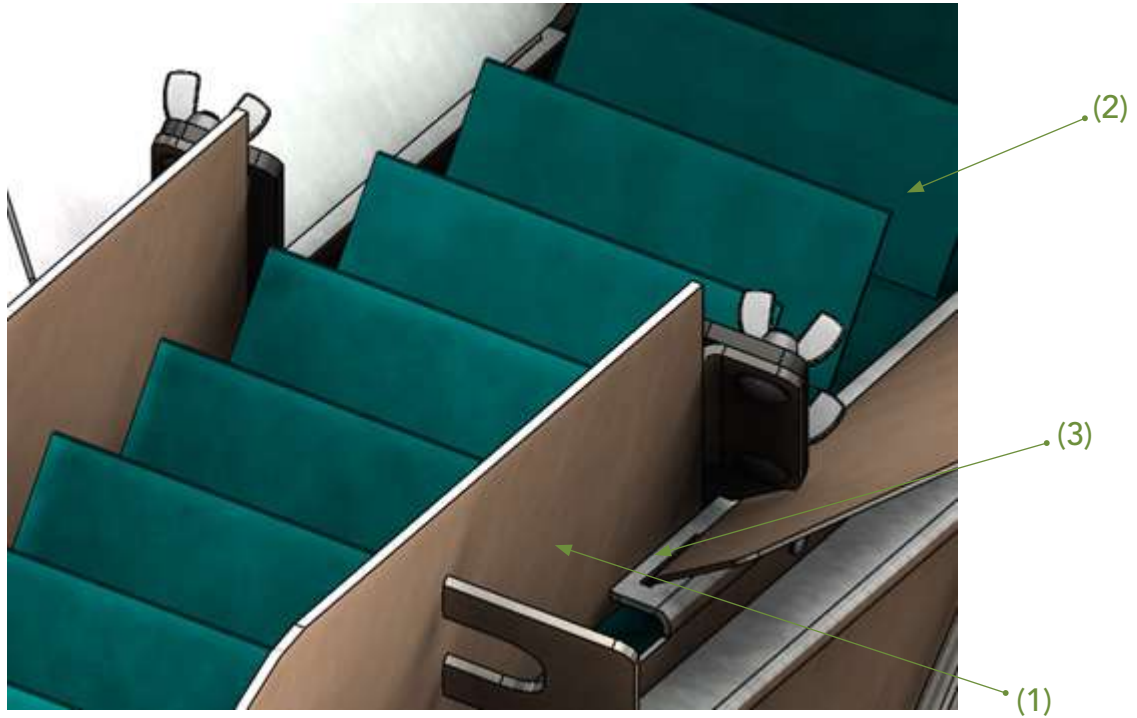
## PRIMARY WALL INSTALLATION

1. The primary walls easily slide directly into the slots on the main frame of the Rise Conveyor.
  - a. The short F-brackets (1) slide into the top primary slots (2), and the long F-bracket (3) slides into the bottom primary slot (4), as shown.
  - b. The F-brackets should be facing away from the machine.



## PRIMARY WALL INSTALLATION

2. The primary walls (1) should be pushed all the way down flush with the belt (2) and touching the side of the secondary walls (3). The flight sweeps should be adjusted so that they are touching the flights as they pass by. If the belt has trouble passing by or the primary walls are "jumping" the flight sweeps are too close and should be opened slightly.
  - a. If the primary walls are not touching the secondary walls, the operator can slightly curve the primary wall to bow them outwards and get them to touch.





# CONTROL BOX INSTALLATION

1. The control box is required to power the motor and allow the operator full control of the machine.
  - a. The control box bracket (1) slides directly into the side mount bracket (2) that is attached to the left leg of the Rise Conveyor (3).
  - b. The yellow four-prong connection (4) screws into the machine's electrical supply (5).
  - c. The third connection on the back of the control box is for the foot pedal control.



# OPERATION | SHUT DOWN

## PRE-START IP

- Attach the hopper to the main body.
  - This is done via the two slots on each side of the main body and the rear legs.
  - First, slide the hopper brackets into the two rear legs. Make sure to get both hooks into the rear legs.
  - Next, the hopper sides are equipped with tabs and slots that slide into the secondary walls of the main body.
- Install the belt and fully secure the interlocking laces of the belt.
  - It is critical that the locking pin has been fully inserted and the belt loops secured.
- Extend the toggle clamps to tension the belt.
  - These allow the belt to be tensioned and are adaptable for any stretching during the belt's use. A new belt should have the screws fully threaded into the toggle clamp. This is plenty of tension when the toggle clamps are extended fully and equally.
  - If the drive gears at the top of the machine are slipping, try extending the bolts in the toggle clamps to further tighten the belt. **DO NOT OVER TIGHTEN.**
- Attach the primary walls onto the main body.
  - There should be little to no gaps between the bottom of these walls and the belt.
  - The food safe plastic at the base of the removable walls is fully adjustable. If you find you have any buds sticking to the side of the bud lifts after they pass the end of the Rise Conveyor, try closing the gap further between the bud lifts and bud swipes.

## POWERING AND OPERATION

- To begin using your new Rise Conveyor, plug the power cord into your wall outlet and allow about 15 seconds for the touch screen to completely start up.
  - If the control box does not immediately power up upon plugging it into the wall, the emergency stop may be activated. Rotate the emergency stop clockwise to release it and give power back to the machine.

# POWERING AND OPERATION

## Start Up Screen:

- The first screen you will encounter is the screensaver.
  - Simply touch the screen anywhere to get to the home page. From this page you can get to the machine controls (start feeding button), view the run time of the machine (settings button), or find GreenBroz contact information (help button).



## Start Feeding Screen:

- From here, you can choose from two different run settings: Continuous Feed Control or Foot Pedal Control. The Speed Control slide bar at the bottom can adjust the speed of the feed of the Rise Conveyor from 0 to 5 pounds per minute.
  - Continuous Feed Control: This mode is for nonstop feeding of material. Feeding will begin after selecting the "ON" button.
  - Foot Pedal Control: This mode is for increased operator control. With the provided foot pedal, you can start and stop feeding at will. Plug in the foot pedal to the open connection on the back of the control box and select the foot pedal control button. You do NOT need to select "ON" for this mode, it will show a red light next to "OFF" until the foot pedal is compressed.



## SHUT DOWN

- To shut down the machine, select "OFF" from the "Start Feeding" page (if in foot pedal mode, just release the pedal) and then hit the emergency stop button. From here you can unplug the machine from the wall.
  - It is recommended that before shutting the machine down completely that the interlocking laces of the belt ends are fully visible and accessible for easy belt removal.

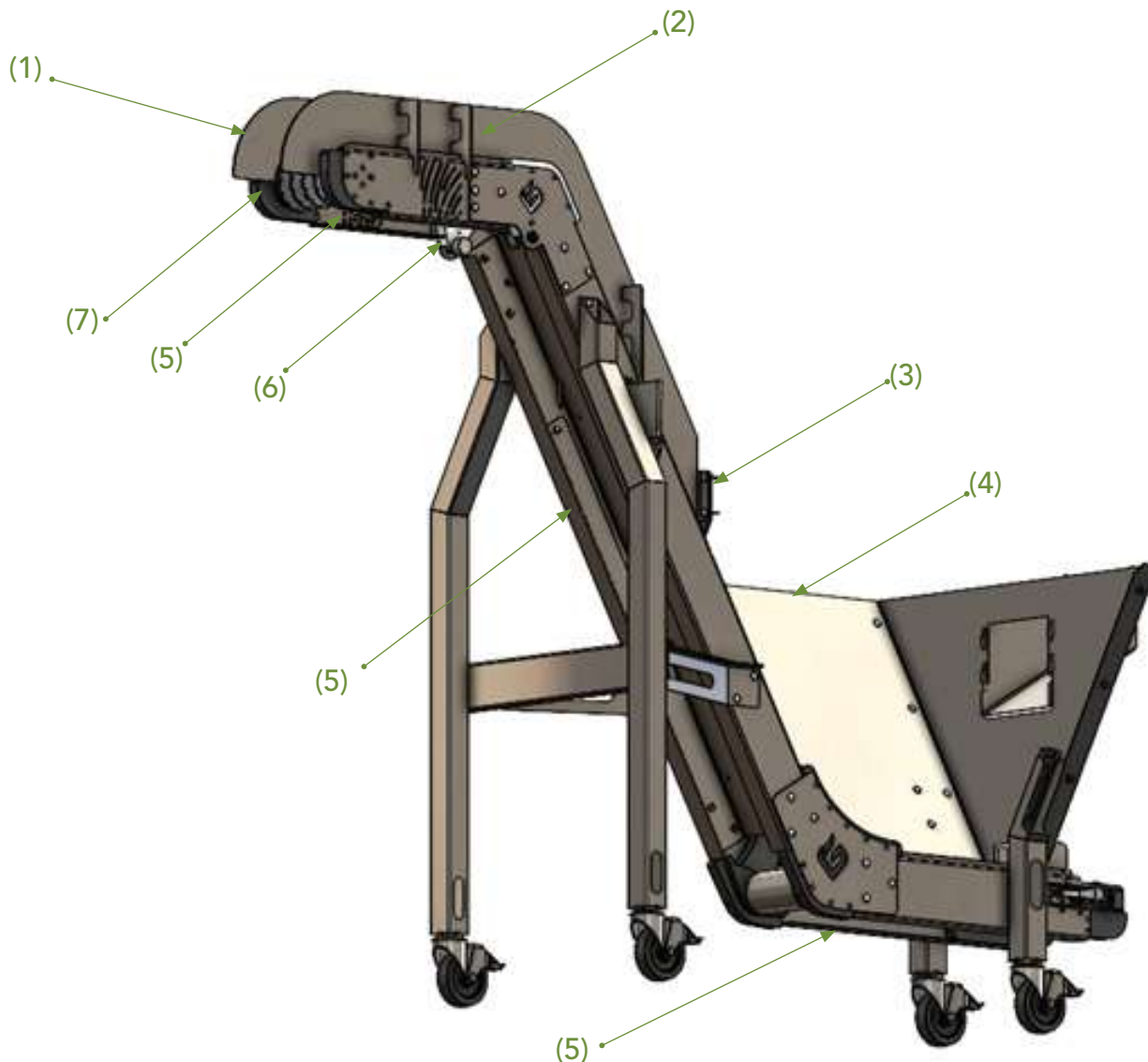
## EMERGENCY STOP

- AT ANY TIME, THE EMERGENCY STOP CAN BE PRESSED AND ALL POWER WILL BE REMOVED FROM ALL COMPONENTS.
  - The emergency stop button will have to be slightly turned clockwise to be released and give power back to any part of the machine or touch screen.

# CLEANING AND SANITIZATION

There are surfaces on the frame and components of the Rise Conveyor that should be paid special attention to because they come in direct contact with your product or the product side of the belt whenever the machine is in use. These surfaces include but are not limited to: the internal side of the primary walls (1), the internal side of the secondary walls (2), the flight sweeps (3), the internals of the hopper (4), shake guards (not shown – see page 6, referenced as #3), the frames flanges (5), the small rollers (6) avoid getting any liquids or debris inside the bearings), and the inside of the chain guards (7). Isopropyl alcohol is acceptable to use on the stainless steel surfaces only. Soap and water is to be used on any plastic components. Please refer to the material data sheets for more detailed information on acceptable cleaning products, handling, and the storage of these materials.

The belt is a thermoplastic elastomer manufactured by Midwest Industrial Rubber, Inc. Please see reference 1 at the end of this user manual for specific information regarding cleaning and sanitizing your Rise Conveyor's belt.



# TROUBLESHOOTING

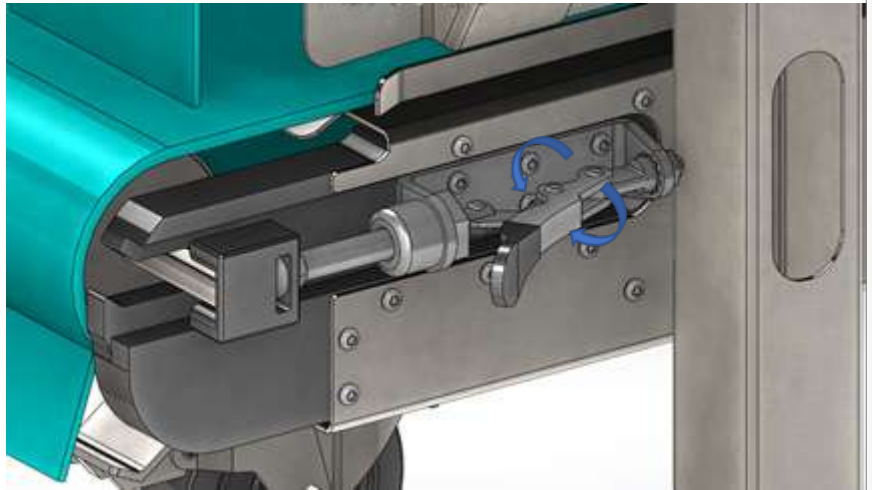
## No Power

Once you have plugged the machine into the appropriate voltage wall outlet, there are two possible reasons why the machine may not be receiving power:

1. Ensure the emergency stop is not enabled. Lightly turn the e-stop clockwise. If this was the issue, then the touch screen will immediately power up.
2. Check the fuses in the control box to make sure they have not blown. If they have, they will need to be replaced.

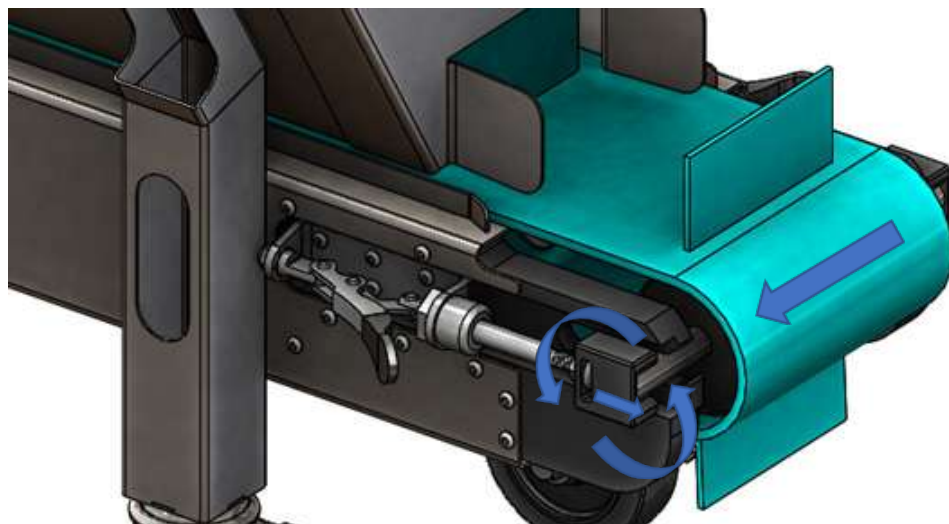
## Stuck Toggle Clamps

If the toggle clamps have become stuck or locked up, just slightly rotate the mechanisms either way along the extending axis and they will release.



## Belt Walking

If the operator finds that the belt is excessively walking in one direction (i.e. riding up on the white UHMW guides, excessive wear, etc.), the operator must stop the machine and extend the one toggle clamp that is on the side that the excessive walk is occurring. It is recommended to only do one rotation of the toggle bearing at a time and restart the machine to remedy the walking issue. The below example shows a belt walking to the left and how to adjust using the toggle bearing.

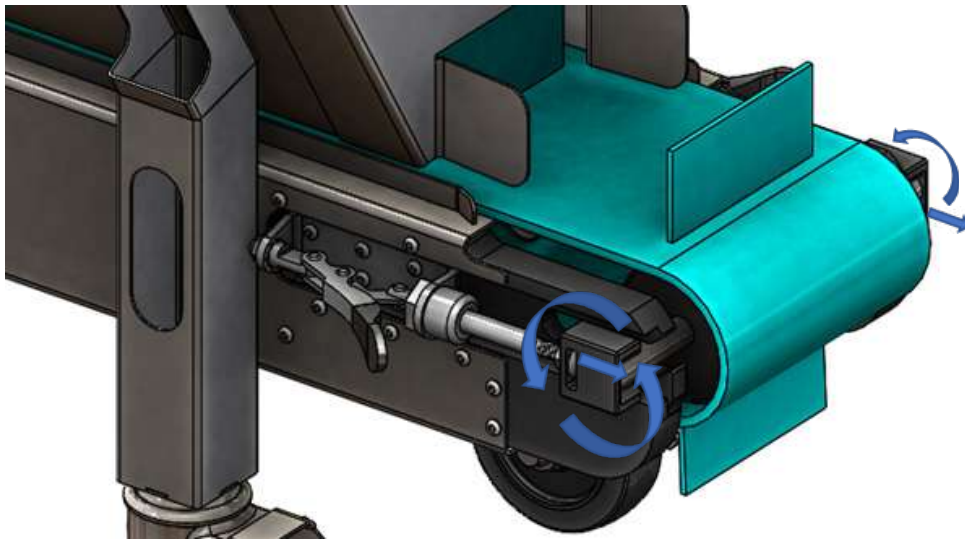




# TROUBLESHOOTING

## Belt Slipping

If the drive gears are slipping on the belt, stop the machine immediately and check to make sure the belt has been fully installed and tensioned with the toggle clamps. If the slipping is still occurring, extend the toggle bolts one full rotation at a time, then retry starting the machine. It is critical that the user extend the toggle clamps equally, or unnecessary wear may occur.



Any other issues, comments, or complaints can be submitted to [service@greenboz.com](mailto:service@greenboz.com).

# Reference 1 – MIR Belt Manufacturer Cleaning Recommendations

## Cleaning and Disinfecting MIR TPU Belts\*

All cleaning and disinfecting procedures must be reexamined periodically to confirm that the required hygiene level is maintained. Evaluation and inspection procedures should be carried out in order to verify that long term compliance with procedures is observed and specific local regulations and requirements are met.

As for any other plant operation, cleaning and disinfecting should be equally documented. If a HACCP concept is applied, these procedures should be treated as Critical Control Points (CCPs). If a Quality System like ISO is in operation, they should be integrated in the System

It is vital that all cleaning procedures consider the following critical factors that could affect hygiene levels and influence the longevity of the belt itself.

- The amount of time the belt is exposed to the cleaning/disinfecting substance.
- The concentration of the cleaning/disinfecting chemicals.
- The ambient temperature.
- The conveyor construction.

### **General Information:**

- Safety is a primary concern; you should observe any local health and safety regulation and use common sense when dealing with any machinery. Particular care should be taken in the machine around the area of the pulleys or rollers which can easily trap body parts and cause serious injuries.
- Most large Detergents and Cleaning Solvent manufacturers have tested their solvent's effects on belts and can therefore recommend the best solution for your application.
- When converting from Modular belt to Positive Drive belts the cleaning procedure can be simplified and the use of highly concentrated harsh chemicals can be reduced. You are advised to reevaluate your procedure in order to save time, use less water and use less chemicals. By reevaluating the procedure you can also reduce costs and increase belt life.
- We do not recommend that you remove belts for soaking. This procedure was developed in order to combat the low hygiene level of modular belts and is generally not necessary once Positive Drive Belts have been fitted, in which case you are advised to reevaluate your cleaning procedure. If you still feel the need to perform the soaking stage, MIR can offer you a lace solution which enables frequent belt removal. We suggest that you contact your nearest MIR representative to evaluate the effect this could have on the belt.

# Cleaning and Disinfecting MIR TPU Belts

- One of the most important recommendations regarding the belt cleaning procedure is for you to make sure that the belt is left as dry as possible at the end of the process; any leftover “pools” of water will reduce the belt life. Most large Detergents and Cleaning Solvent manufacturers have tested their solvent’s effects on belts and can therefore recommend the best solution for your application.

## **Cleaning Procedure Tips**

- 1. Completely stop and disconnect any electrical flow to the conveyor.**
- 2. Release the quick tension unit.**
- 3. Removal of Bulky Product Residue**

We advise you not to use any sharp tools or harsh metal brushes/Wire wool to remove stuck material; a flat low friction tool or soft cloth should be used to loosen remains if necessary.

- 4. Pre-Rinse**

In order to remove any food residue remaining the belt surface should be thoroughly rinsed by using low pressure water at 130°F/54°C to 160°F/71°C. Water pressure used should be at 10 to 15psi. A thorough pre-rinse can reduce the amount of chemicals required in the cleaning process. You should avoid rinsing of belt surface closely with high pressure water jet.

- 5. Foaming**

Selecting the detergent type most suitable will depend on the character of the product being conveyed. We recommend that you consult with your Detergent supplier for best cleaning results and minimal possible harm to the belt surface. Commonly used Mild Alkaline Foam Cleaner, Acidic Foam Cleaner, or Chlorinated Alkaline Foam cleaner with concentration of 2-3% and applying time of around 15 minutes are safe to use on all Volta belts.

- 6. Post-Rinse**

The post rinse process is to ensure that all pieces of remaining product wastage will be removed from the equipment. During this process it is also important to make sure that all chemical residues are thoroughly removed. A low pressure wash with warm water is best for this stage of the process. Water temperature should not exceed 130°F/54°C to 160°F/71°C. Any residual chemicals could cause damage to the conveyor belt and reduce its life span.

# Cleaning and Disinfecting MIR TPU Belts

## 7. Additional Sanitizing.

It is highly important to make sure that your belt has been meticulously cleaned before beginning the sanitation process. Sanitation chemicals will not have any effect on a surface that is not completely clean.

As for the foaming stage, selecting the detergent type most suitable will depend on the character of the product being conveyed. We recommend that you consult with your Detergent supplier for best cleaning results and minimal possible damage to the belt surface.

Commonly used Neutral Foaming Disinfection, Per-Acetic Acid and Alkaline Disinfections with concentration of 1-2% and applying time of around 15 minutes are safe to use on all Volta belts.

Various types of chemical disinfectants act differently on certain groups of bacteria and under certain pH-ranges. In order to achieve the maximum disinfecting effect, you are recommended to periodically alternate the type of the chemical disinfectant applied. If using Chlorine at this stage it is not recommended to exceed 200ppm, Ozone can be used according to local health and safety regulation.

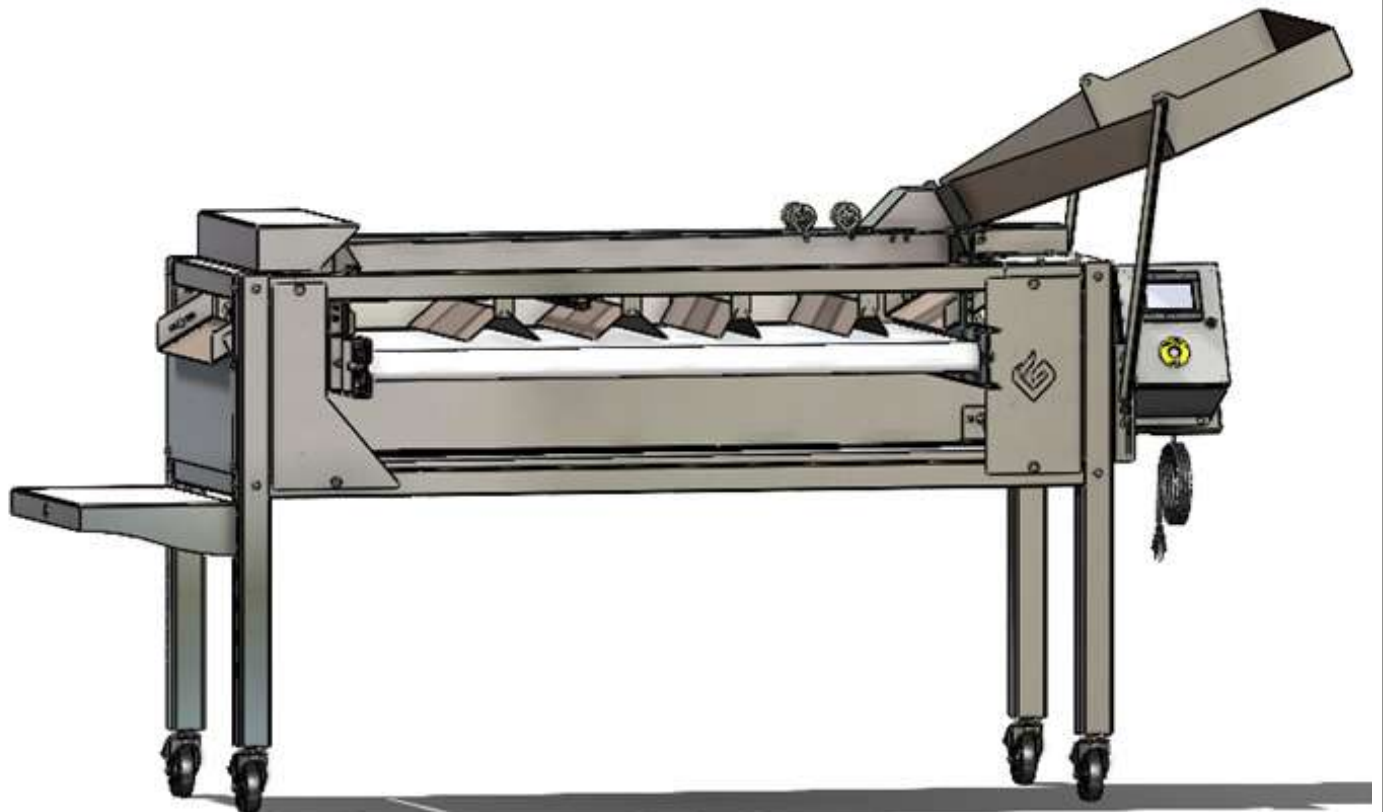
### Check-list after cleaning procedure:

1. It is most important that all harsh chemical residues are rinsed off the surface of the belt.
2. Make sure that the belt is left dry as possible at the end of the process; any leftover "pools" of water will reduce the belt life. Run the conveyor or lift the belt to drain the excess water.

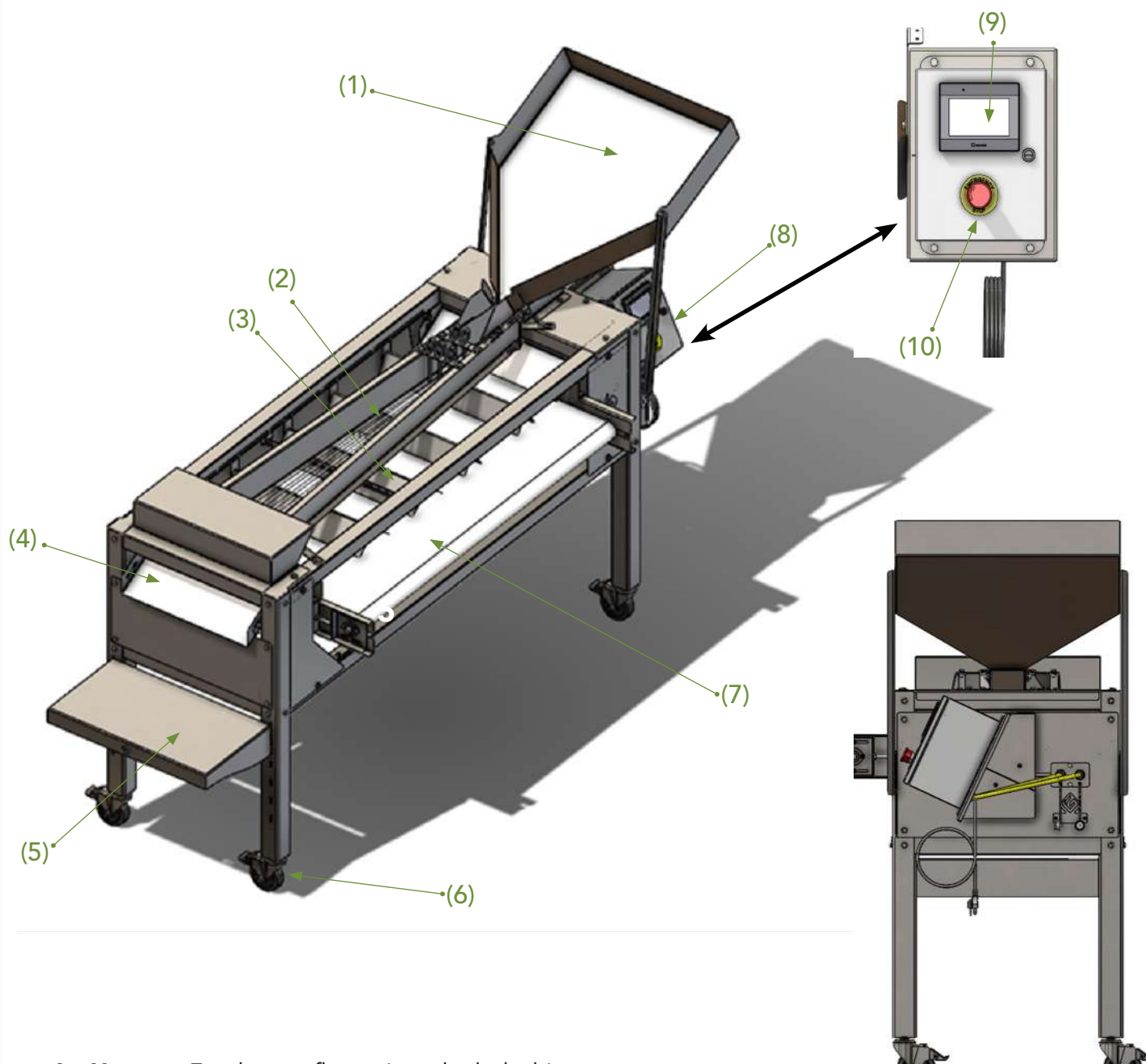
### Check list before activating your production line:

1. Chemical residues have been rinsed off the belt.
2. Tension (if necessary) was restored to the correct measure.
3. Belt tracking is restored.
4. There are no obstructions along the conveyor construction that could prevent the belt from running smoothly.
5. Belt is not vacuumed pinned to the conveyor.

## PART 2: PRECISION SORTER



# MACHINE PARTS IDENTIFIER



1. **Hopper:** Feeds your flower into the belt drive area.
2. **Round Belts/ Bands:** Moves and separates according to the size of your flower.
3. **Dividers:** Separates different size flower onto the conveyor belt.
4. **Exit Ramp:** Allows the largest flowers to exit the belt area.
5. **Adjustable Overflow Shelf:** Placing a bin here will catch the largest flowers.
6. **Locking Caster Wheels:** 4x swivel/ locking caster wheels.
7. **Conveyor Belt:** Moves sorted flowers into separate bins. (Adjustable Speed 0-30 RPM)
8. **HMI Control Panel:** Controls the machine functionality.
9. **Touchscreen:** turns bands and belt on and off and controls speed.
10. **EMERGENCY STOP:** Instantly stops the Sorter.



# UNPACKING & INSTALLATION

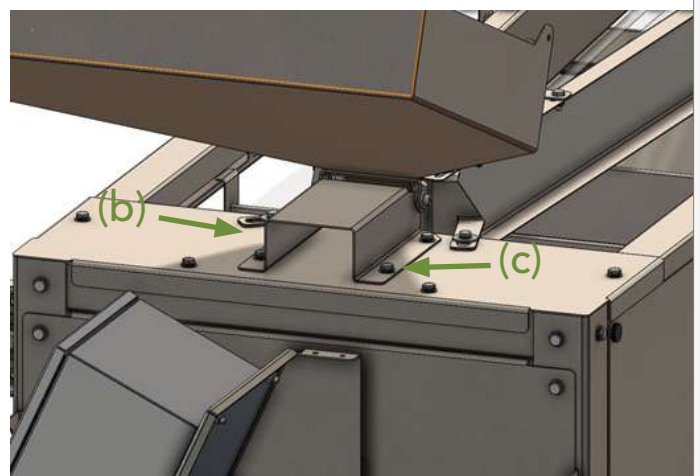
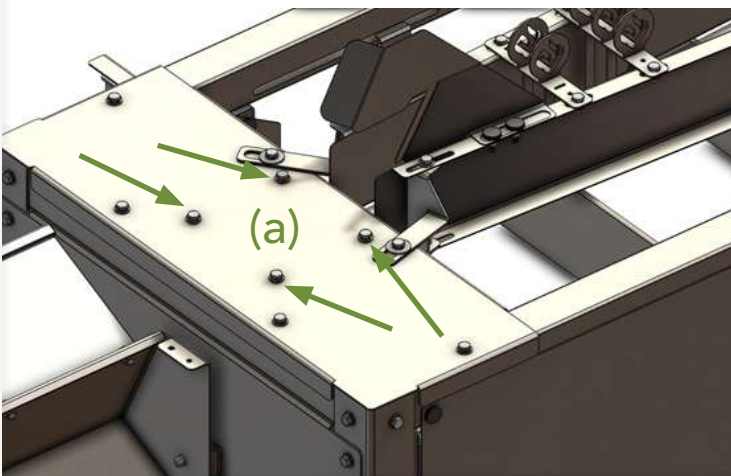
Please read through the following information before using your machine for the first time. All parts noted in this manual will be included with your machine, unless otherwise noted.

## UNPACKING

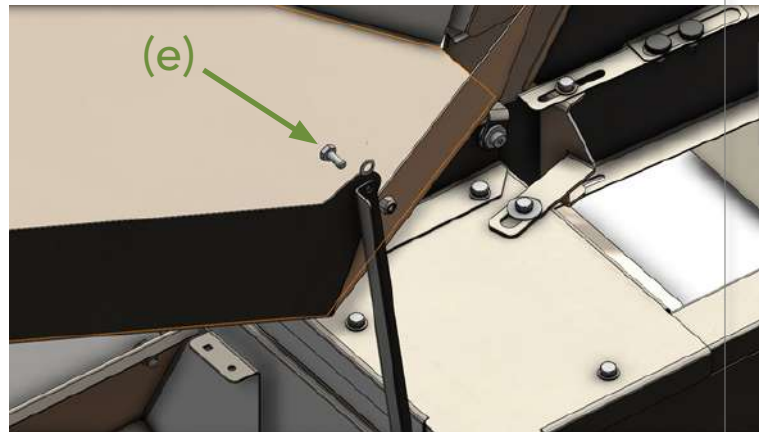
1. Start by cutting the banding that is wrapped around the GreenBroz shipping crate.
  - Please use caution when cutting the banding. The banding is under tension.
2. Remove the top and side panels of the shipping container.
3. Cut machine anchor banding.
4. Remove hopper and dividers.
  - Refer to installation instructions.
5. Remove machine from the GreenBroz shipping crate.
  - Please use proper lifting techniques to avoid injury.

## HOPPER INSTALLATION

1. Remove the (a) top bolts from the top of the machine on the input end.
2. Position the (b) hopper mount holes to align with the holes on the machine.
3. Insert the hardware and tighten (c).
4. Rotate hopper adjustment brackets (d) and align with holes on hopper.
5. Remove the hardware that is attached to the end of the brackets and attach the adjustment brackets to the hopper (e). Make sure the washer is between the hopper and the adjustment bracket.



## HOPPER INSTALLATION



## DIVIDER INSTALLATION

1. Slide the dividers just above the conveyor belt and below the machine frame.
2. Each end of the divider has tabs that fit inside the slots of the frame.
3. Move dividers to desired positions

## START-UP PROCEDURES

1. Ensure the E-Stop is released.
2. Plug machine power cord into proper power source.
3. Position dividers to desired locations.
4. Position catch bins in desired locations under the conveyor (not included).
5. Tap touchscreen to begin.
6. Tap start sorting.
7. Adjust both belt and conveyor speed to your desired speeds.
8. Tap start to begin.

# OPERATING | SHUT DOWN | CLEANING

## OPERATION PROCEDURE

1. Load hopper with product.
2. Sweep from hopper onto the round belts.
3. Adjust hopper angle when needed (the hopper easily adjusts between 15-35 degrees.)
4. Adjust dividers and catch bins when needed.

## SHUT DOWN PROCEDURE

1. Press STOP on the touchscreen.
2. Unplug the machine from power source.

## CLEANING PROCEDURE

1. Wipe all surfaces with alcohol and a lint free cloth.
2. Isopropyl Alcohol has an adverse effect on the round belt material and can lead to premature failure. Clean individual round belts with Resin Clear (or other food safe oil) to remove buildup. Followed with a soap and water cleaning to remove remaining oil.
  - After cleaning all reachable round belts, rotate the round belts to clean the other round belt areas still needing to be cleaned.
3. With the conveyor motor power OFF, clean the top surface with alcohol and a lint free cloth.
  - After cleaning all reachable conveyor belt areas, rotate the conveyor belt to clean the other conveyor belt areas still needing to be cleaned.

## DIMENSIONS | WEIGHT | SPEED

### Dimensions:

With Hopper - 103"L x 32"W x 49"H

**Weight:** 300lbs (136 kg)

**Speed:** Conveyor Speed: Adjustable 0-30 RPM

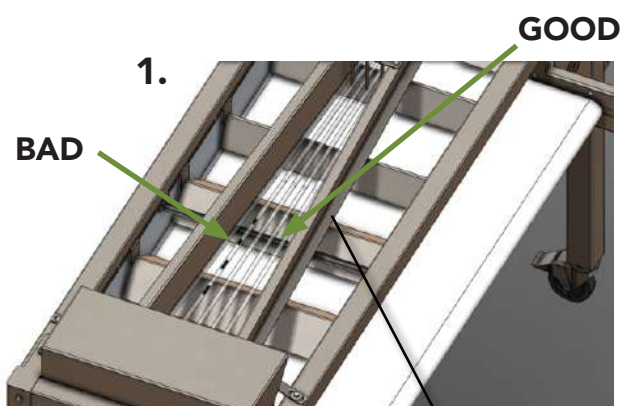
Band Speed: Adjustable 0-60 RPM

**Power:** Amps = 1.6A, Voltage = 110V, Hertz = 60hz



# MAINTENANCE

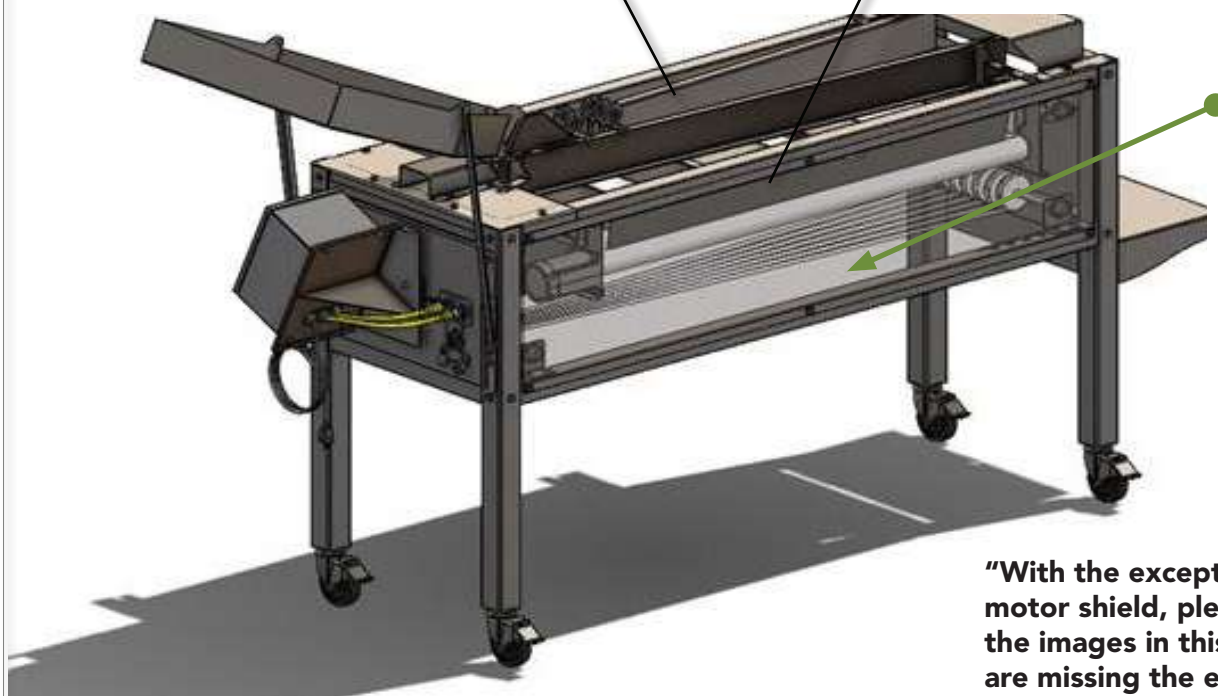
1. Inspect round belts quarterly for damage, replace if cracks are found.
2. Inspect conveyor belt quarterly for damage, replace if tears are found.
3. Remove motor shield\*\*, tighten coupler set screws quarterly.



2. Inspect **conveyor belt** quarterly for damage, replace if cracks are present.



3. Motor Shiled



"With the exception of the motor shield, please note. the images in this manual are missing the equipped safety shields."

# TROUBLESHOOTING

## 1. Machine not turning on.

- Check outlet power supply.
- Ensure E-STOP is released by twisting the red knob clockwise.
- Call GreenBroz technical support at 619-455-8052.

## 2. Conveyor belt not moving when motor is turning.

- Adjust conveyor idle roller brackets to increase belt tension.

## 3. Round belt break.

- Acquire a round belt welding kit and repair existing break.
- Unrepairable - ie. too short from multiple repairs, sliced down the middle, or cannot be repaired with belt welding kit. (Purchase new round belt from: [shopgreenbroz.com](http://shopgreenbroz.com).)

## 4. Round belts not moving when motor turns.

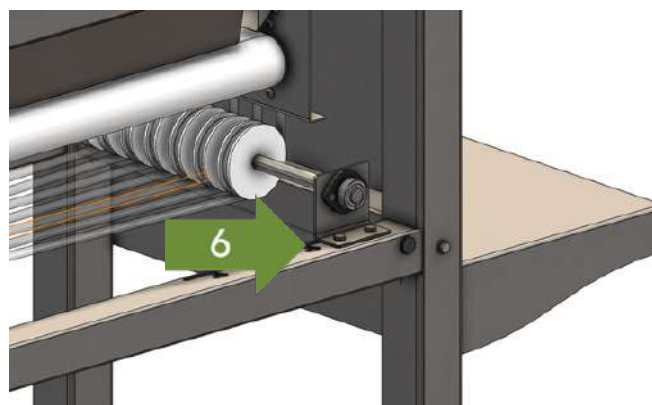
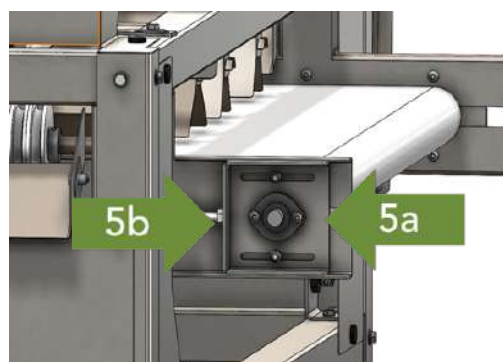
- Adjust tension pulley assembly.

## 5. Conveyor Belt Walking

- a) Loosen both bolts on each side of the conveyor slide bracket.
- b) Tighten the side of the conveyor belt bracket that the belt is walking towards.
- c) Once straightened, tighten all conveyor slide bracket bolts down.
- d) This is how the conveyor belt should be properly seated.

## 6. Round Belt Slippage

- Tension the round belts using the tension bolts on the number 2 idle Roller.



## WARNING

This machine contains moving parts.

Long hair or loose clothing can be caught in the moving parts.  
Ensure that any loose hanging jewelry, long hair or clothing is away from the machine.

Ensure the machine is unplugged prior to any disassembly



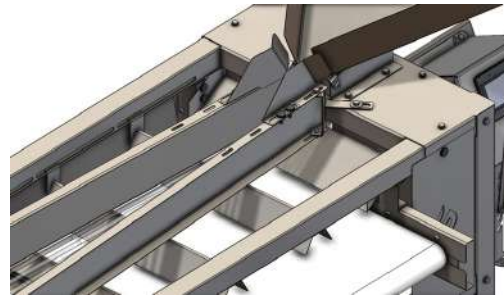
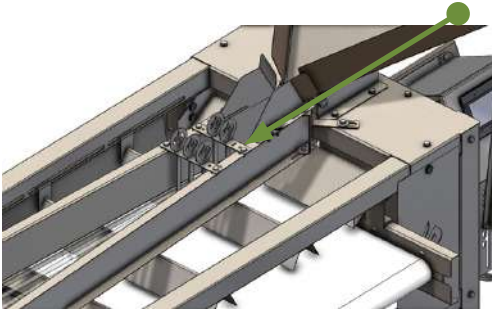
FAILURE TO COMPLY WITH THE ABOVE MAY RESULT IN SERIOUS INJURY.



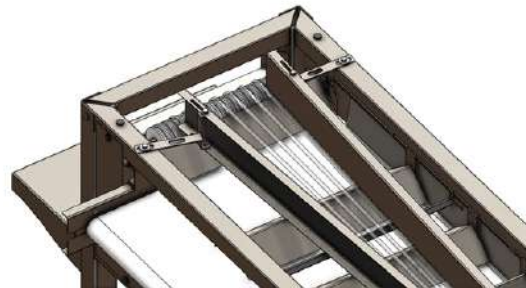
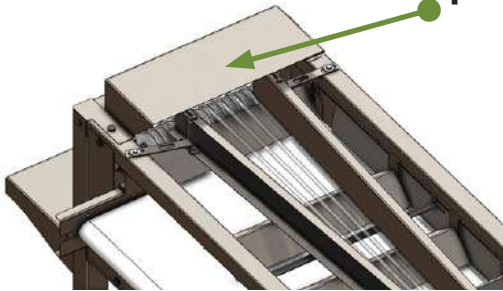
# SIZE ADJUSTMENT

1. Remove both tine rail brackets.
2. Remove top exit safeguard.
3. Remove guide bracket bolt hardware.
4. Move guide brackets to inside slot and place hardware back in. Do not tighten all the way down.

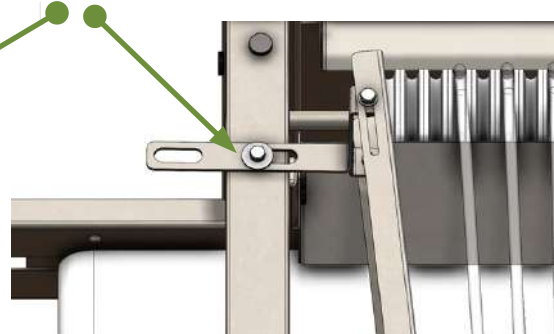
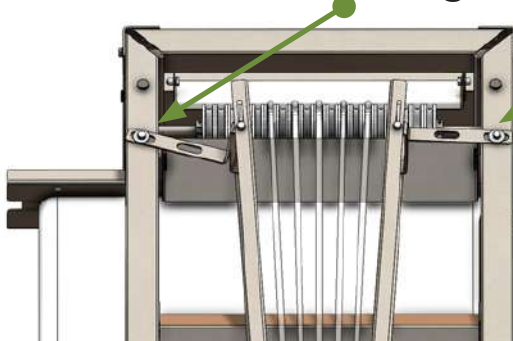
## 1. Remove tine rail brackets.



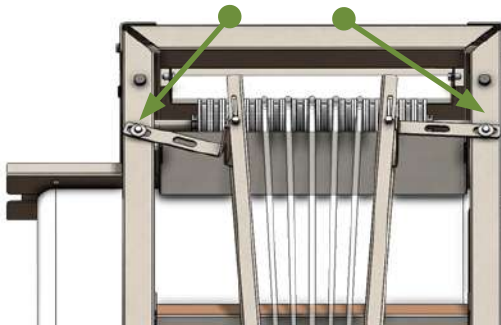
## 2. Remove top exit safe guard.



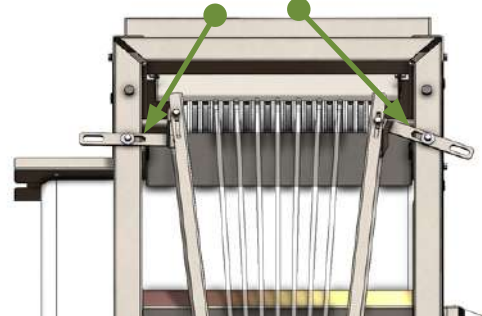
## 3. Remove guide bracket hardware.



## 4. Before



## After



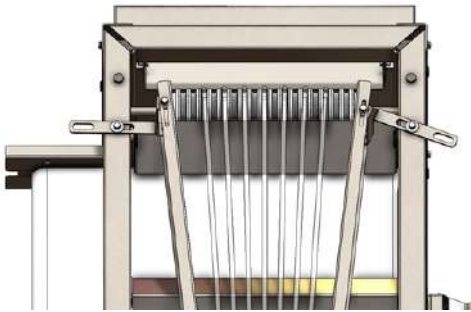


# SIZE ADJUSTMENT

5. Spread clear bands to desired size (skip two pulleys between bands).
6. Align guide rails with outside band and tighten guide brackets down.
7. Re-Install top exit safeguard.
8. Re-Install large set of tine rails with tines (Larger tine set included with purchase).

**5.**

**Before**

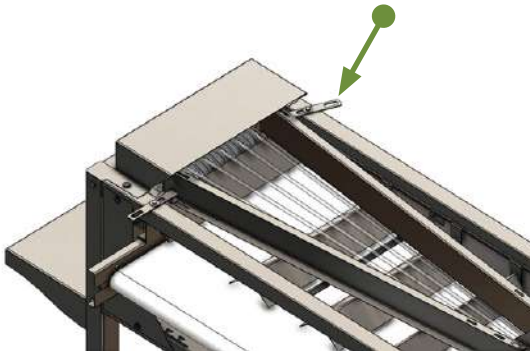


**After**

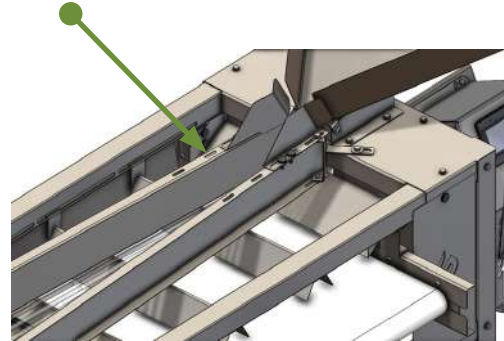


**6.**

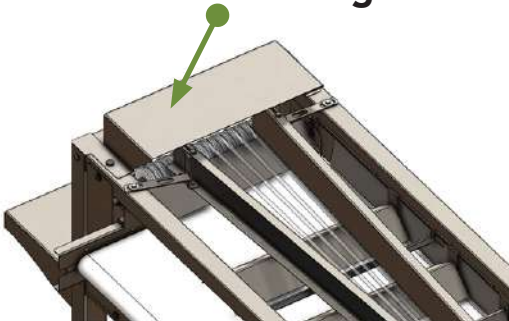
**Guide Brackets**



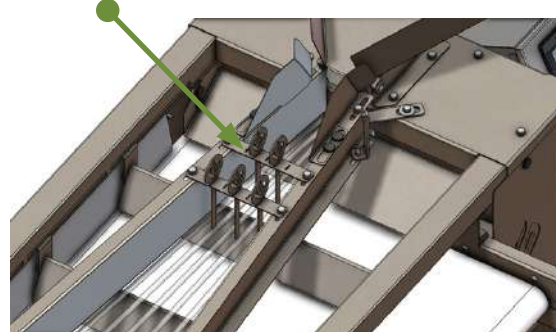
**Guide rails.**



**7. Re-install exit safe guard.**

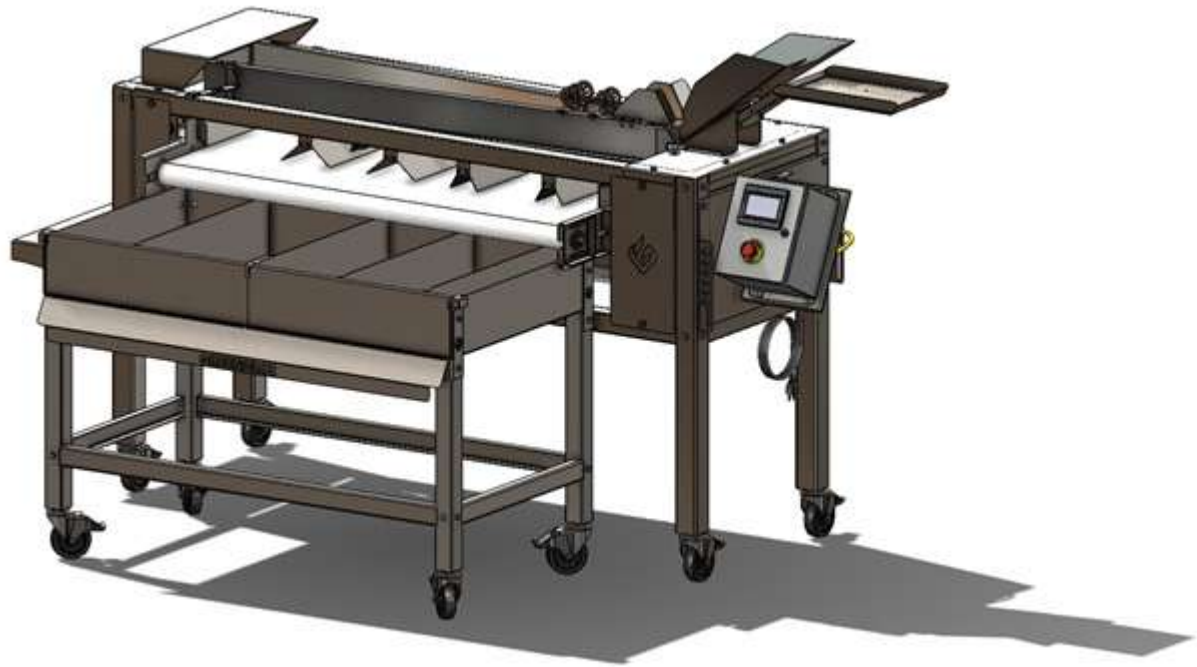


**8. Re - install tine rails with tines.**



# SORTER TABLE INSTALLATION AND OPERATION

1. Roll the Sorter Table up to the Precision Sorter, making sure the Table fits between the Conveyor Frame Sides.



2. Adjust the Sorter Dividers according to the desired sizes.

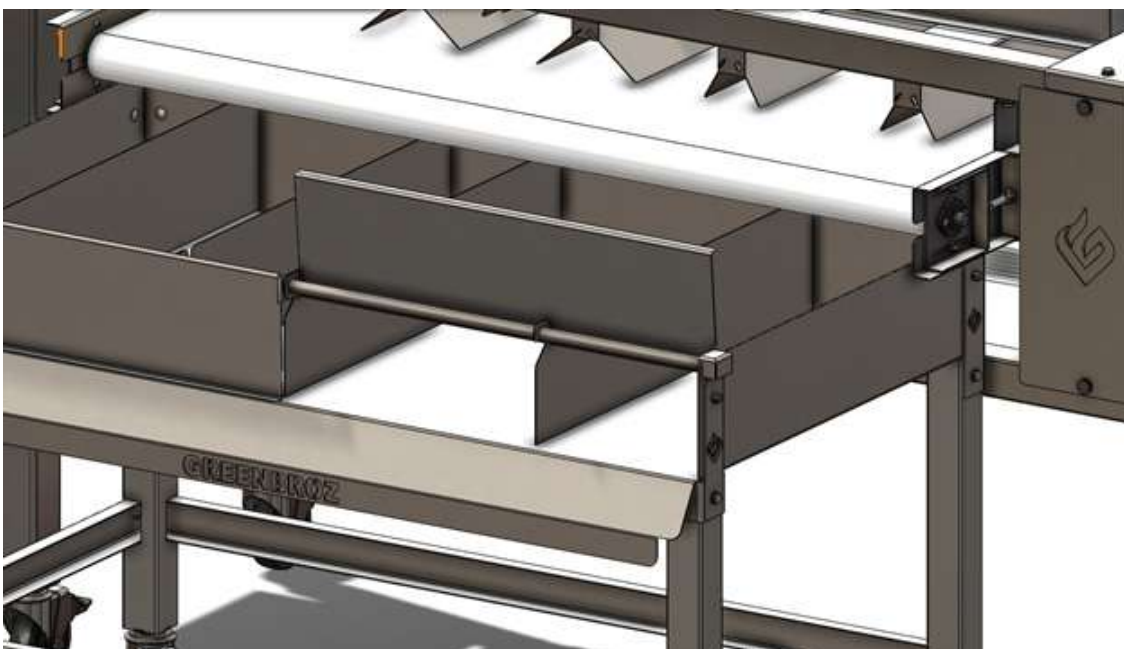


# SORTER TABLE INSTALLATION AND OPERATION

3. Line up the Table dividers with the sorter dividers.



4. Once Table is full and ready to empty, place bins/bags under the lip of the table. The table has two doors to make emptying easier.
  - a. Rotate the desired door up and into the notches cut into the dividers while you empty the product.

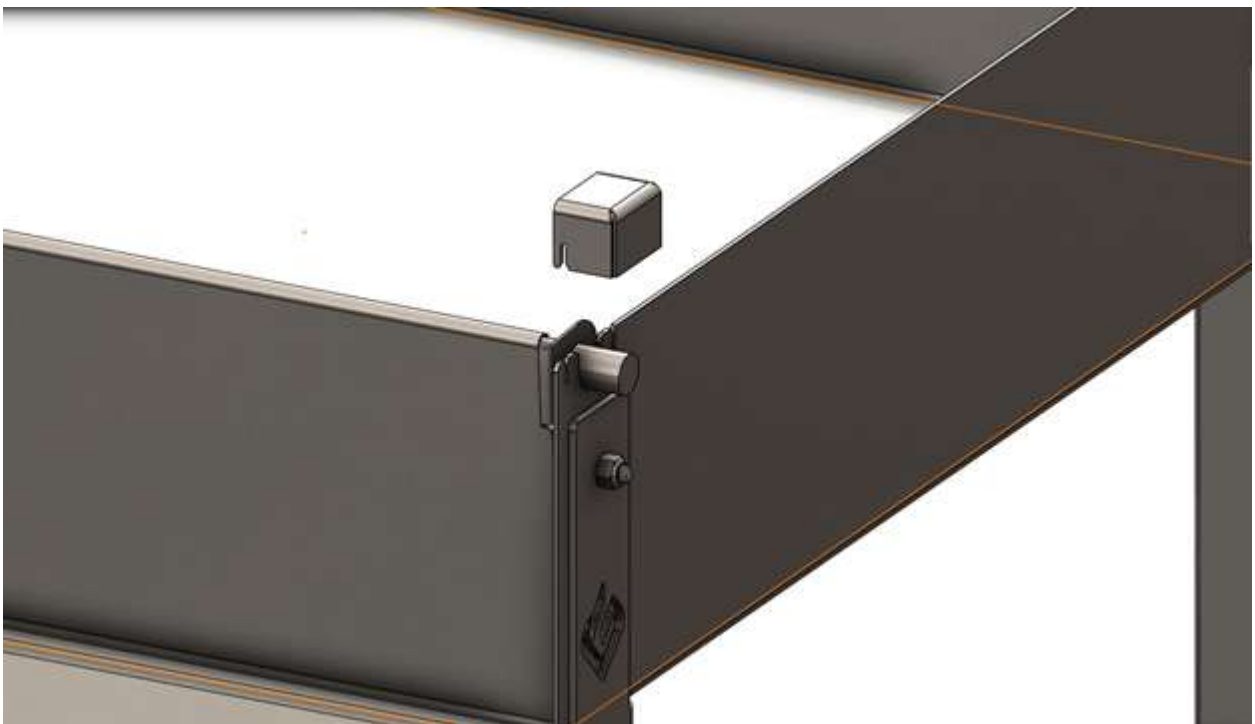


# SORTER TABLE CLEANING AND SANITATION

1. It is recommended to clean and sanitize the machine at least once a day to avoid any micro-organisms, excess build up, or cross contamination.
2. Begin by removing all four dividers.



3. Next remove both Rod Stops from each end.





## SORTER TABLE CLEANING AND SANITATION

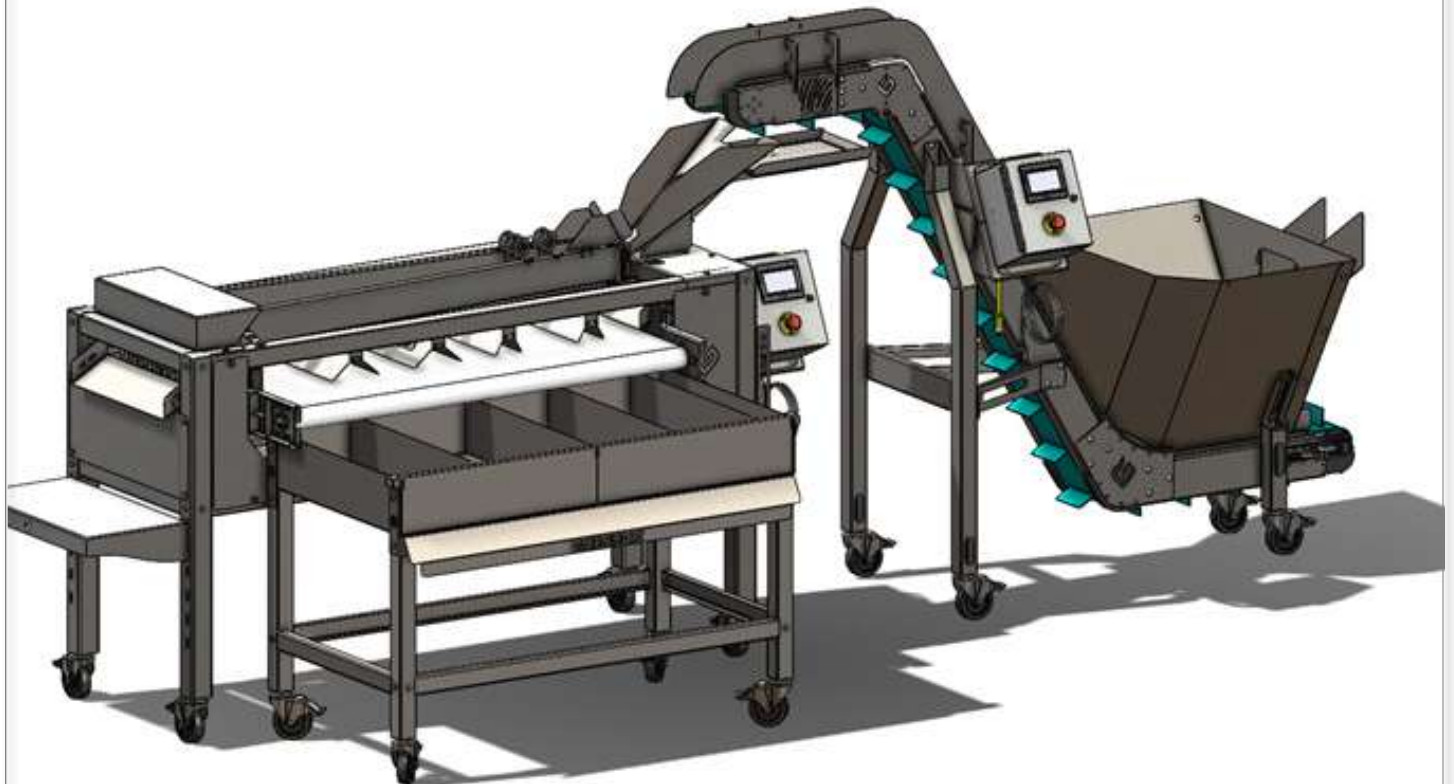
4. Finally lift the rod and doors out of the slot and slide the doors off the rod.



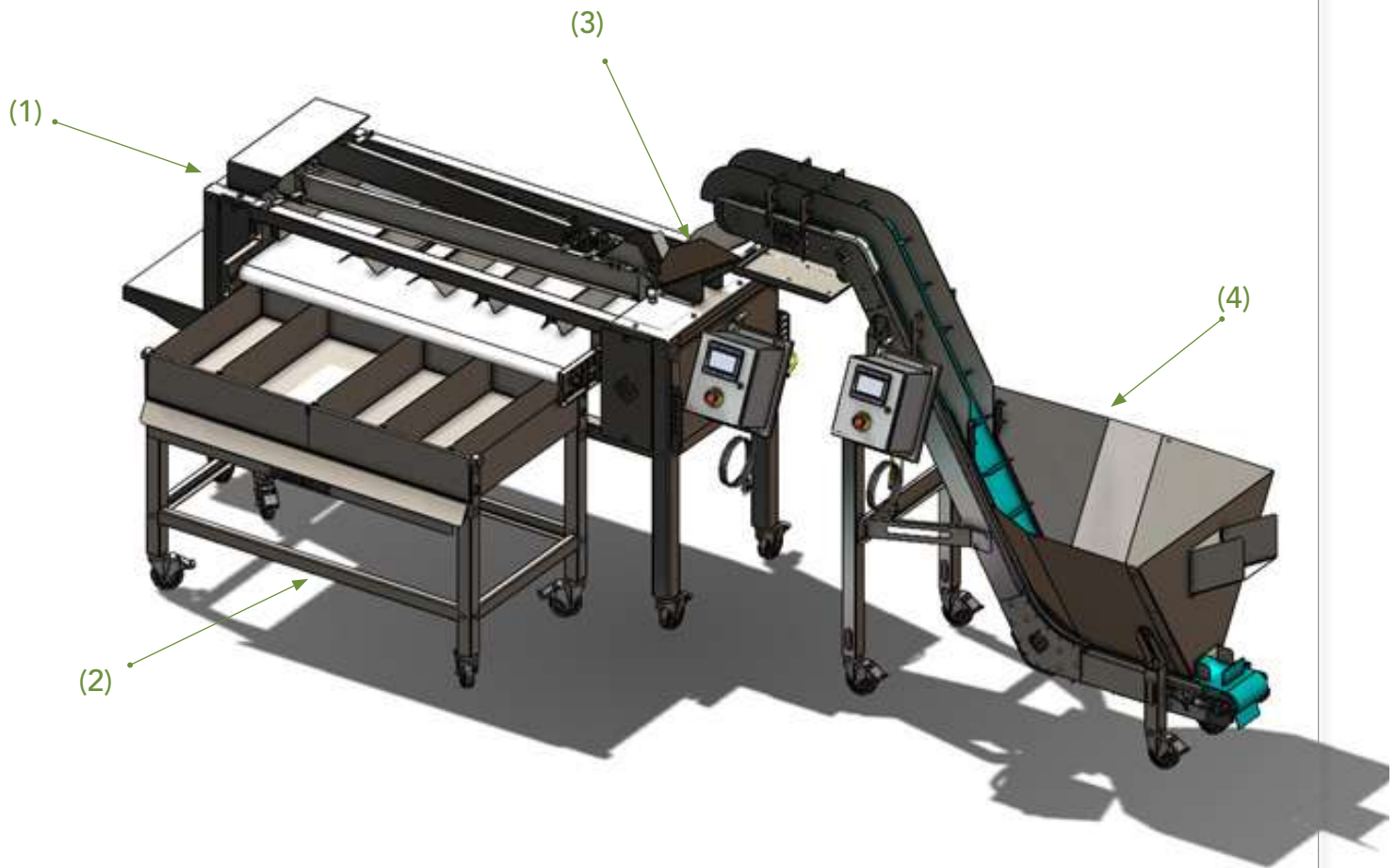
5. Using gloves, isopropyl alcohol, and cloth make sure to completely clean and sanitize all surfaces that come into contact with any material. If needed, a strong brush (or a piece of scotch bright) could be used to help clear any hardened or sticky build up.
6. You may pressure wash the table assembly if desired.



## PART 3: RISE-N-SORT SYSTEM



# MACHINE PARTS IDENTIFIER



1. Sorter
2. Sorter Table
3. Rise-N-Sort Ramp
4. Rise Conveyor

## Dimensions:

With Hopper - 55"W x 63"H x 160"L

**Weight:** 650lbs (295kg)

**Feed Rate:** 0-5 lbs/min

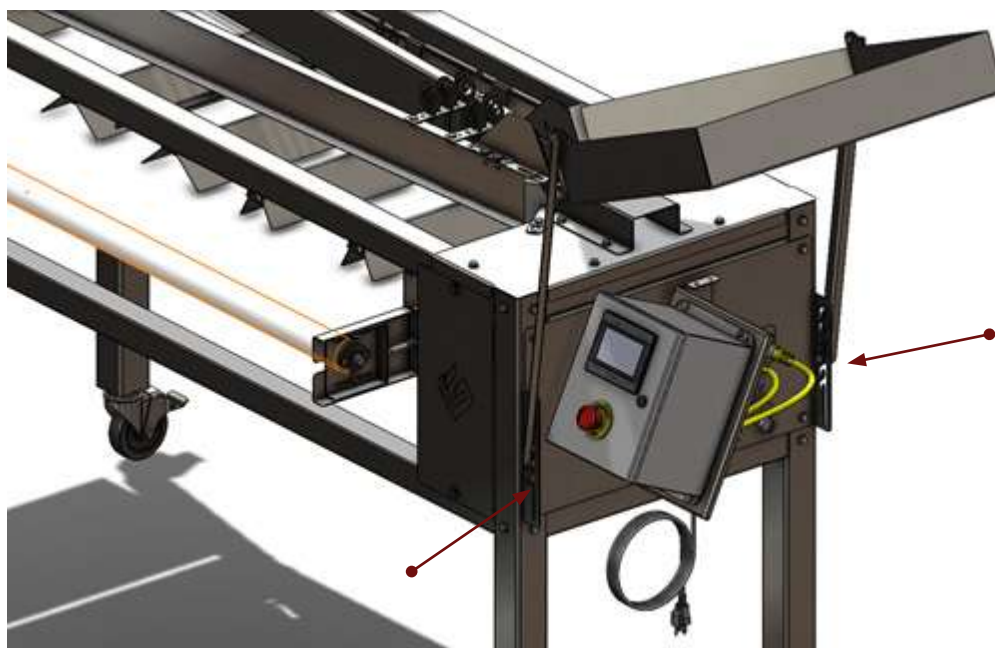
## Power:

110VAC, 60Hz 3A 330W (US)

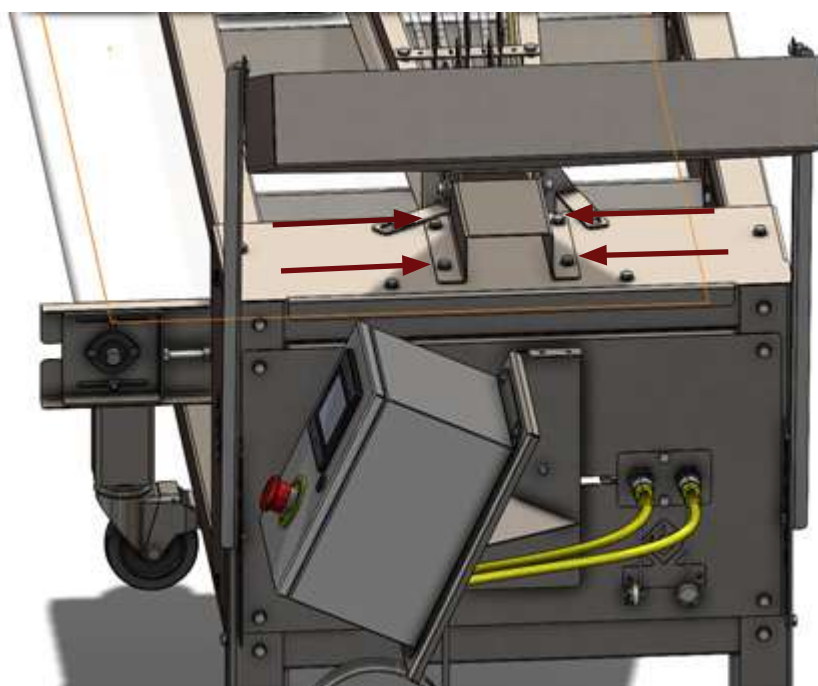
220VAC, 50Hz 1.5A 330W (International)

## RAMP INSTALLATION

1. First remove the Sorter Hopper.
  - a. Start by removing the two Hopper Adjustment Bracket bolts.

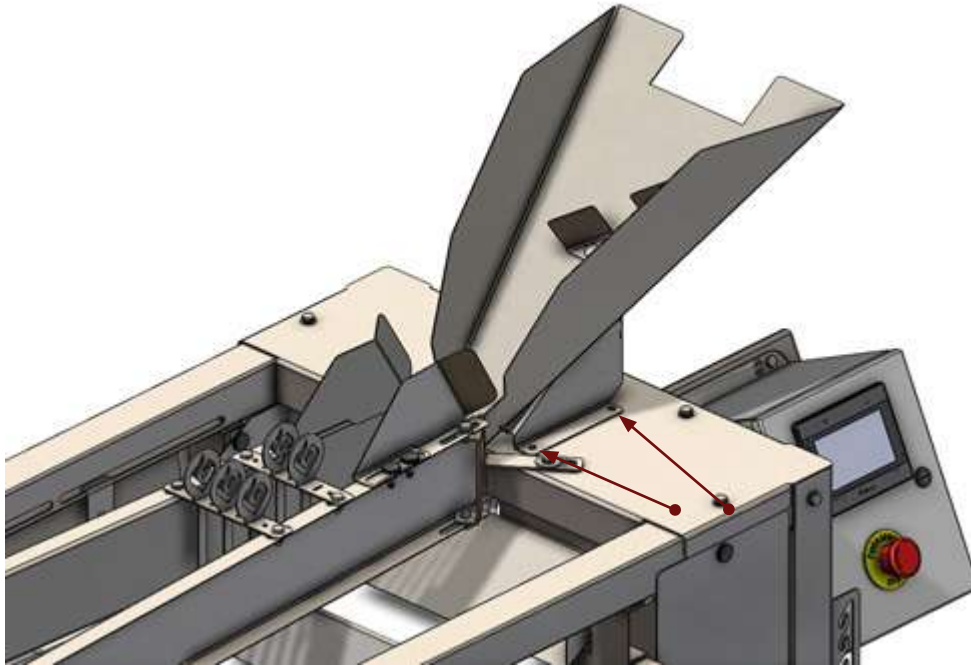


2. Next remove the four bolts holding the Hopper Hinge Bracket. Be sure to support the hopper during this step – ideally this is a two-person job.

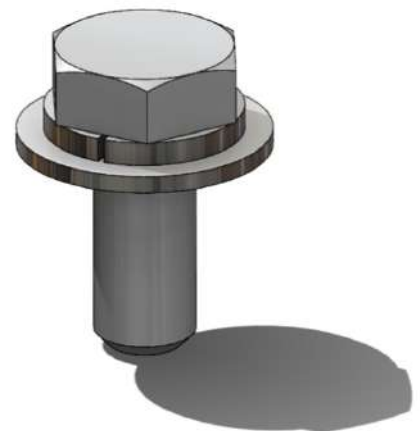
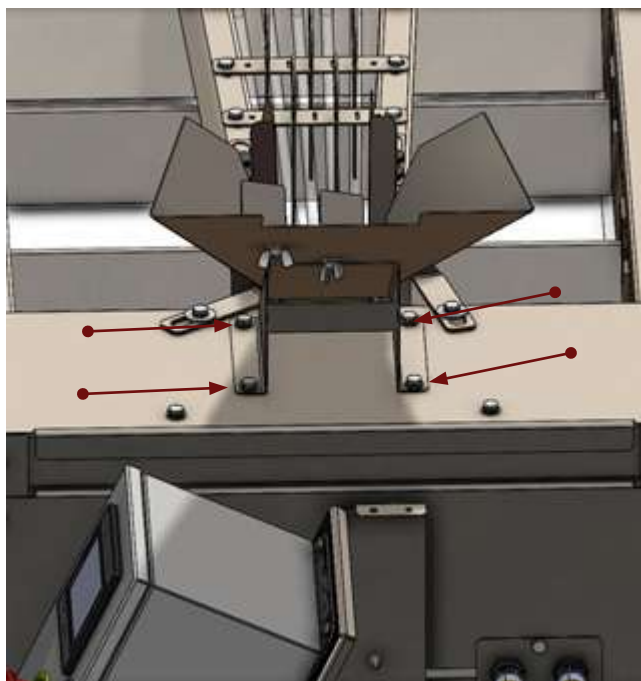


## RAMP INSTALLATION

3. With the Hopper removed we can install the Ramp.
  - a. Line up the 4 holes from the Hopper Hinge Bracket with the Ramp.

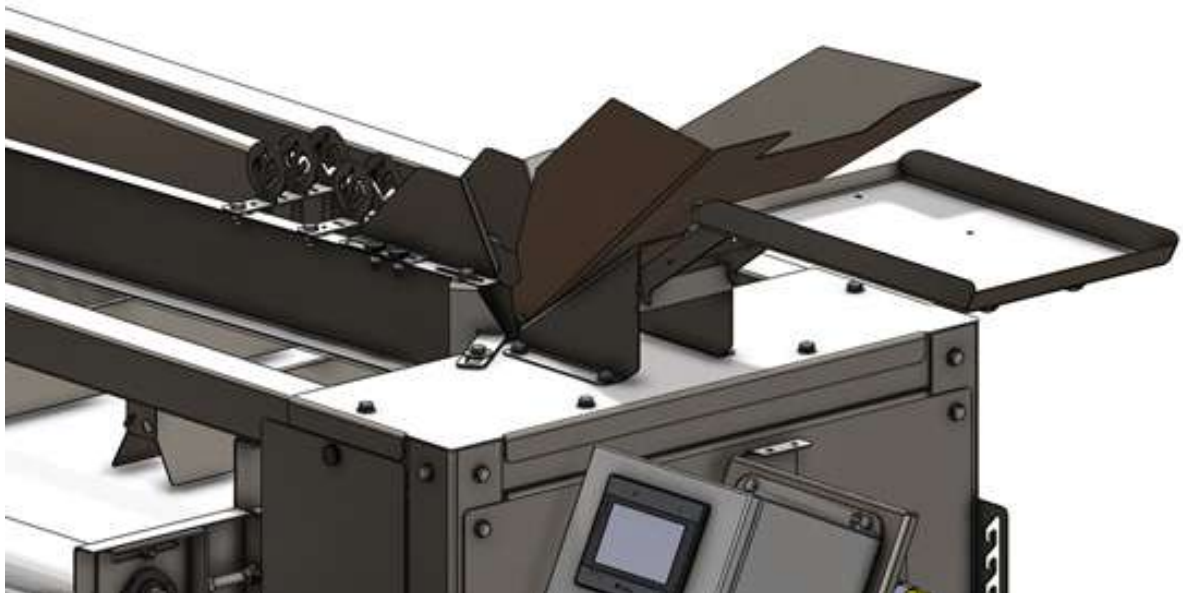


- b. Use the existing 4 bolts to secure the Ramp. This stack consists of a 5/8" 1/4-20 Bolt, a 1/4" lock washer, and a 1/4" flat washer.



## RAMP INSTALLATION

4. Slide the catch onto the ramp from behind using the slots provided.

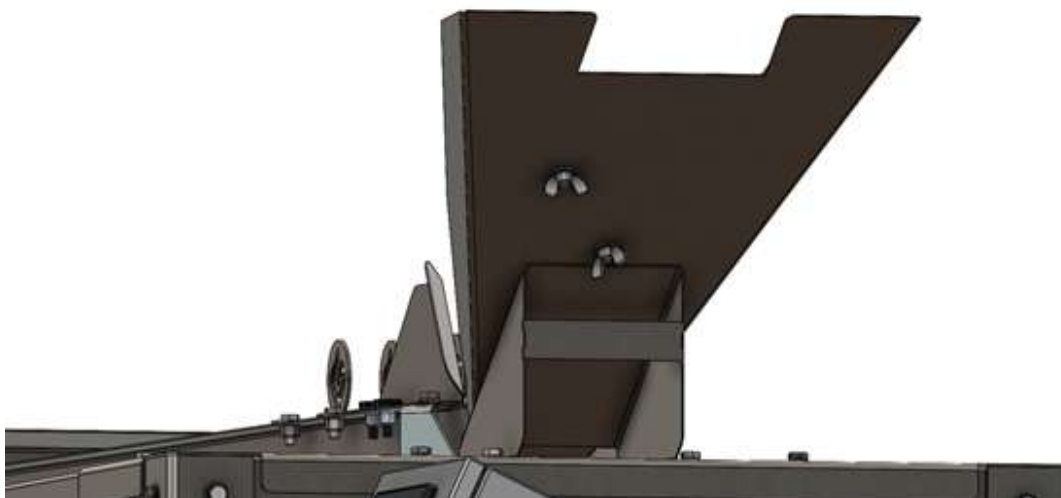




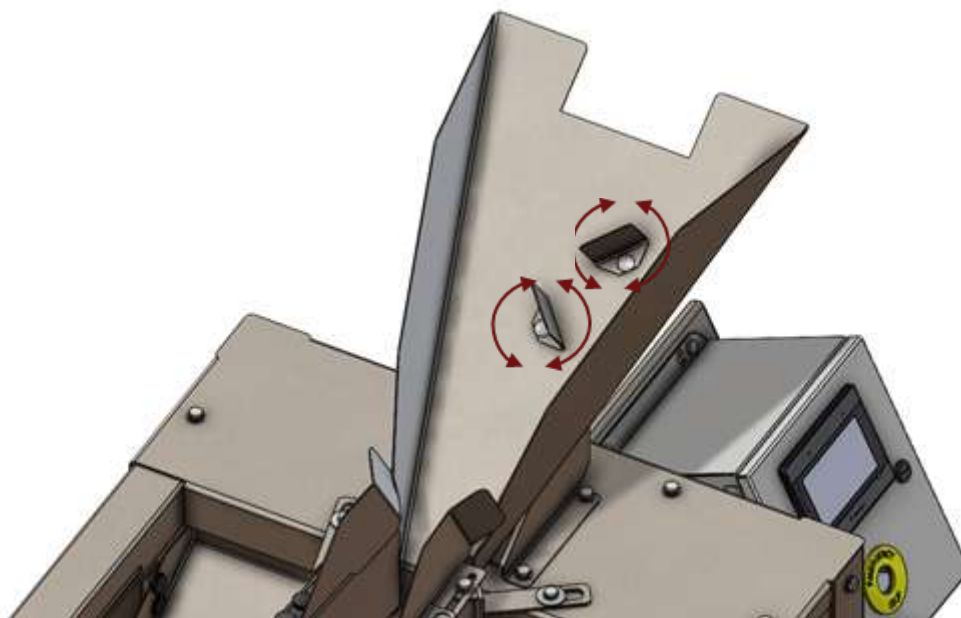
## RAMP ADJUSTMENT

The purpose of the fins on The Rise-N-Sort ramp are to keep product flowing into the Sorter and prevent jamming or bottlenecking at the exit of the ramp. Both fins can be adjusted based on the size and shape of the flower. Additionally, controlling the speed of the Rise Conveyor feeding the Sorter is an important factor in keeping the ramp from getting backed up. If you find that the ramp backs up too easily, try decreasing the speed of the Rise Conveyor or proceed with the following fin adjustment.

1. To adjust the fins on the ramp, start by removing the catch and loosening the wing nuts on the underside of the ramp.

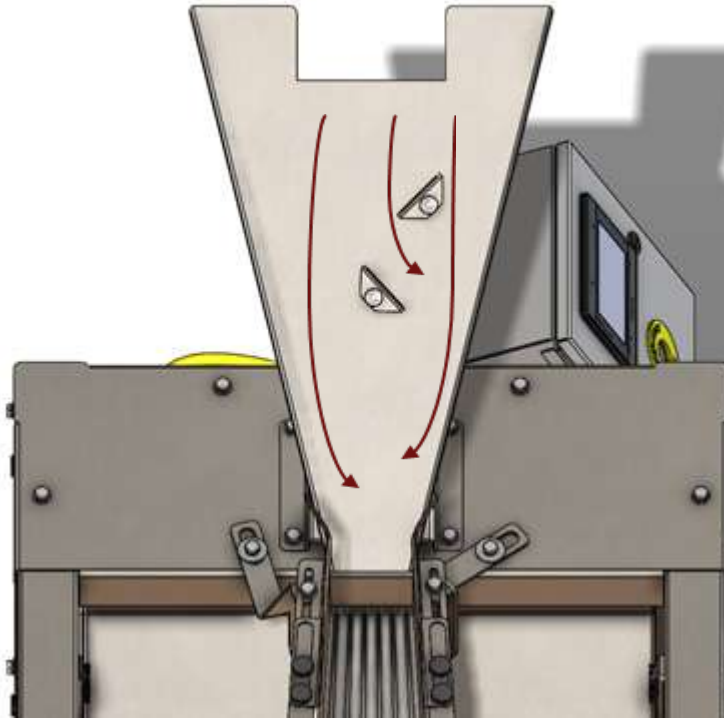


2. Next, rotate the fins to the desired angle and tighten using the wingnuts on the back.

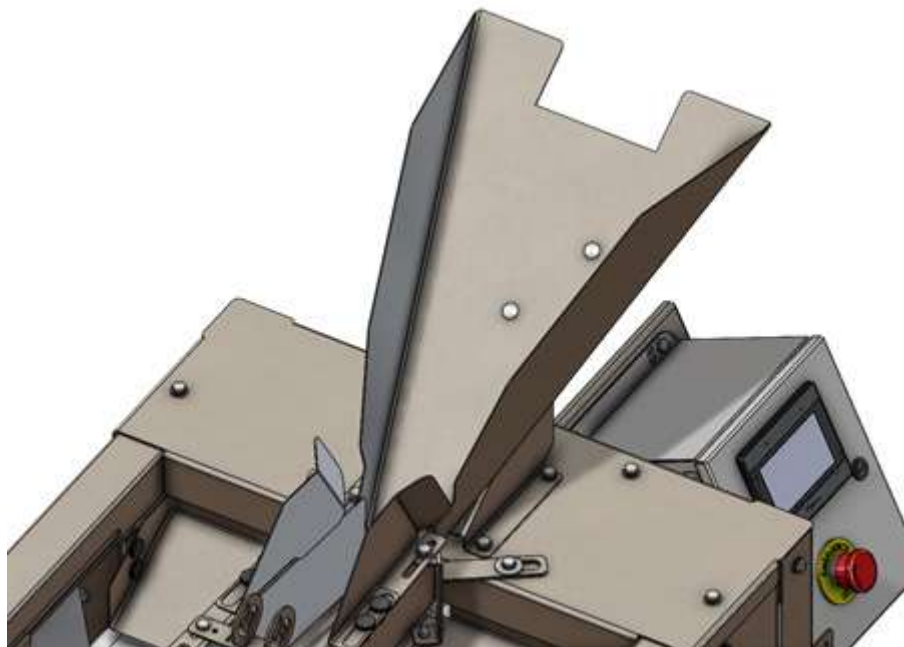


## RAMP ADJUSTMENT

3. Try to create multiple length paths for the flower to travel, this breaks up the load delivered by the Rise Conveyor and will help keep the flower from bottlenecking at the exit of the ramp. The shown orientation of fins is recommended, however depending on flower density, size, and shape the fins can be adjusted to the user's needs.



4. For some applications, you may even consider removing one or both fins altogether. Just simply remove the fins and reinstall the hardware to block the mounting holes.



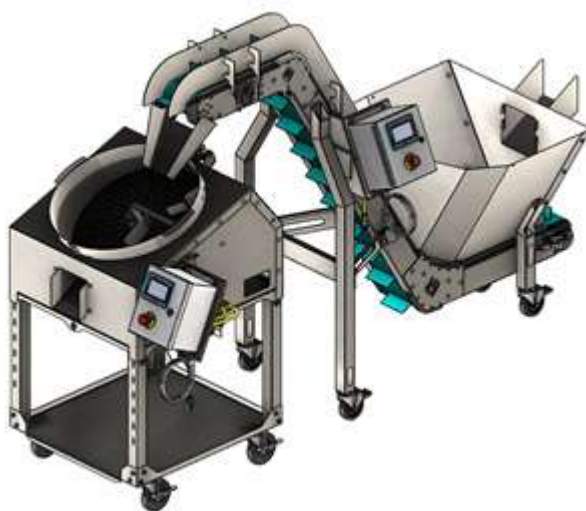
## CLEANING AND SANITIZATION

- It is recommended to clean and sanitize the machine at least once a day to avoid any micro-organisms, excess build-up, or cross-contamination.
- Begin by removing both the catch and both fins from the ramp.
- Using gloves, isopropyl alcohol, and cloth make sure to completely clean and sanitize all surfaces that come into contact with any material. If needed, a strong brush (or a piece of scotch bright) could be used to help clear any hardened or sticky build-up.
- You may pressure wash the ramp assembly if desired.

# MODULAR SYSTEMS

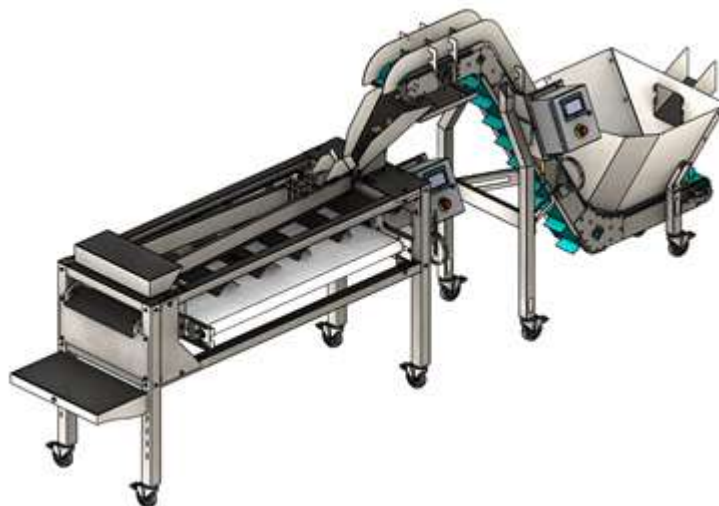
## No-Touch Trimming

Many operators tend to fill the trimmer with too much material which can decrease the efficiency and possibly even the quality. When paired with the Rise Conveyor, the Model M becomes a no-touch trimming system that requires only a single operator. This system allows the Model M to be quickly filled, emptied, and refilled with smaller loads without the operator having to move or touch the material. Allowing for less product handling, higher efficiency, and higher quality, this system is far greater than the sum of its parts.



## No-Touch Sorting

The Sorter's weakest point is its hopper. It can not hold more than a pound or two of product and when filled tends to bridge at the hopper's exit. When combined with the Rise Conveyor, the operator is no longer required to touch the material. The controlled flow of product helps stop any bridging, resulting in an increase in throughput of the Sorter by upwards of 100%. This significantly higher throughput, combined with touchless sorting, makes this system far superior than the sum of its parts.



# MODULAR SYSTEMS

## No-Touch Trimming and Sorting

This takes the no-touch trimming system to the next level and still only requires a single operator. Not only does this system trim more efficiently, but it will also sort your product faster than ever. Increased throughput, high quality, and greater efficiency is what you can expect from this full no-touch system.





# WARRANTY REGISTRATION

**GO TO GREENBROZ.COM TO REGISTER.**



Click on the product registration page to register GreenBroz products. You must register within 30 days of product receipt date to activate your warranty.

**UNLESS SUBPOENAED, ALL INFORMATION OBTAINED BY GREENBROZ INC. WILL BE KEPT PRIVATE AND SECURE. GREENBROZ INC. WILL NOT SHARE OR DISTRIBUTE YOUR INFORMATION WITHOUT CONSENT.**

## LIMITED WARRANTY

**Products covered:** This limited warranty is limited to GreenBroz, Inc. Rise Conveyor products manufactured by GreenBroz, Inc. (the "products") and provides that such product is free from defects in material and workmanship.

**Length of warranty:** The length of this warranty shall be 36 months from the product receipt date.

**To Qualify for this warranty:** The product must be purchased from GreenBroz, Inc., or a dealer authorized by GreenBroz, Inc., to sell the products. This warranty only applies to the first retail purchaser and is not transferable to subsequent owners.

**What GreenBroz will repair or replace under warranty:** GreenBroz, Inc. will repair or replace, at its option, any part that is proved to be defective in material or workmanship under normal use during the applicable warranty period. Warranty repairs and replacements will be made without charge for parts or labor. Anything replaced under warranty becomes the property of GreenBroz, Inc. All parts replaced under warranty will be considered as part of the original product and any warranty on those parts will expire coincidentally with the original product warranty.

**Exclusions:** 1. Any damage or deterioration resulting from neglect of periodic maintenance as specified in any product owner's manual or any improper repair or maintenance; 2. Neglect, unauthorized alteration, modifications, misuse, incorporation of use of unsuitable attachments or parts; 3. Damage caused by dirt, pressure or steam cleaning the product, salt water, corrosion, rust, varnish, abrasives, and moisture; or 4. Any product that has ever been declared a total loss or sold for salvage by a financial institution or insurer.; 5. Damage caused by an independent third party that is not the registered owner.

**Disclaimer of Consequential Damage and Limitations of Implied Warranties:** This limited warranty is in lieu of all other expressed or implied warranties, including any warranty of FITNESS FOR A PARTICULAR PURPOSE OR USE and any implied warranty of MERCHANTABILITY otherwise applicable to this product. GreenBroz, Inc. disclaims any responsibility for loss of time or use of the product, transportation, commercial loss, or any other incidental or consequential damage, including lost profits. There are no warranties extended other than as provided herein. This limited warranty may be modified only by GreenBroz, Inc.





# GREENBROZ

## CALIFORNIA PROPOSITION

⚠ 65 WARNING ⚠

**WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**ADVERTENCIA:** Este producto contiene productos químicos reconocidos por el estado de California que provocan cáncer, defectos de nacimiento u otros daños reproductivos.

For more information:  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# ***VISIT GREENBROZ HQ***



• **WAREHOUSE TOURS • MACHINE DEMOS • MEET OUR TEAM •**

Contact us to book a tour of GreenBroz HQ in Las Vegas, home of the world's first post-harvest equipment showroom. Talk to our experts, see our machines in action, and learn how our 'Made in the USA' ethos translate into beautifully crafted, purpose-built machines.

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***WE DON'T TRIM FLOWER  
SO MUCH AS CRAFT THEM.***



### **MODEL M DRY TRIMMER**

- *YOU* control the finish
- Trim 16+ Lbs./Hr.
- The industry's leading batch dry trimmer



### **RISE-N-SORT™ SYSTEM**

- *YOU* control the sizes
- Sort 360 Lbs./Hr.
- The industry's fastest & most gentle size-sorting system



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