



**GREENBROZ**

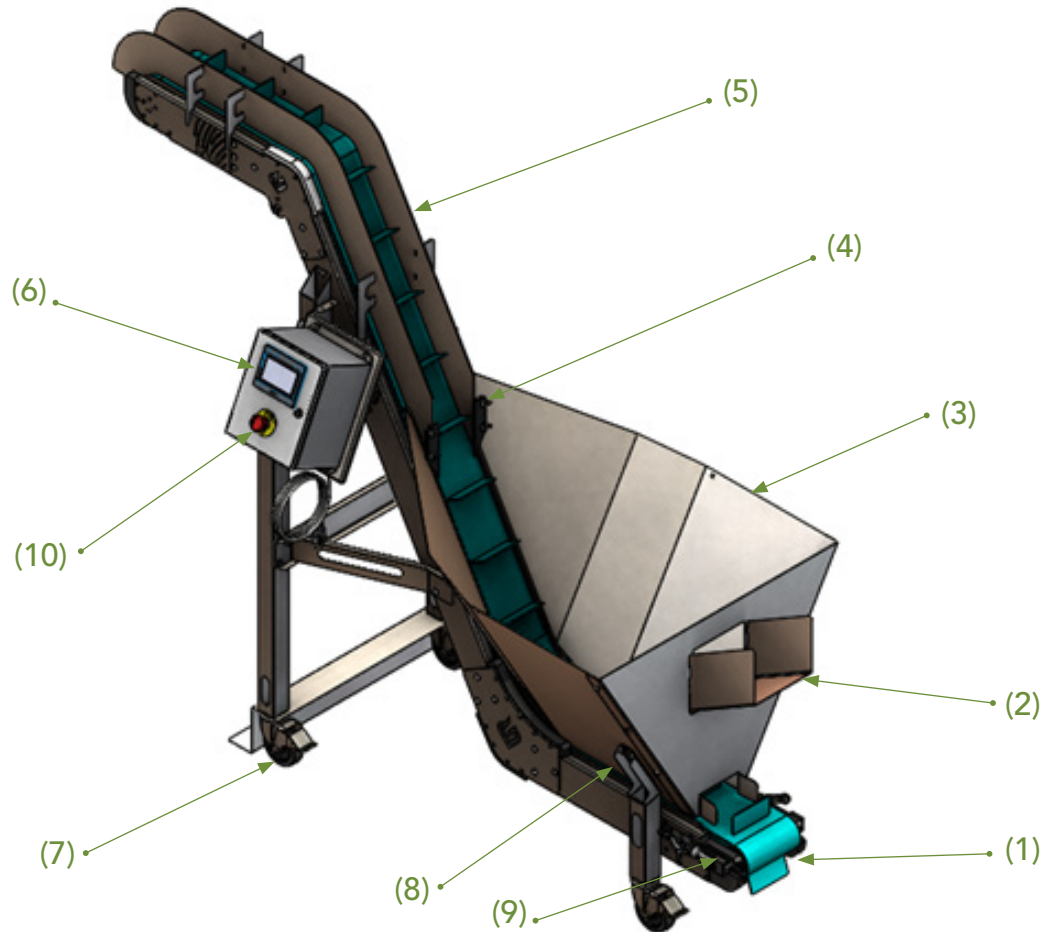


# **RISE CONVEYOR**

## User Manual

[GreenBroz.com](http://GreenBroz.com)

# 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

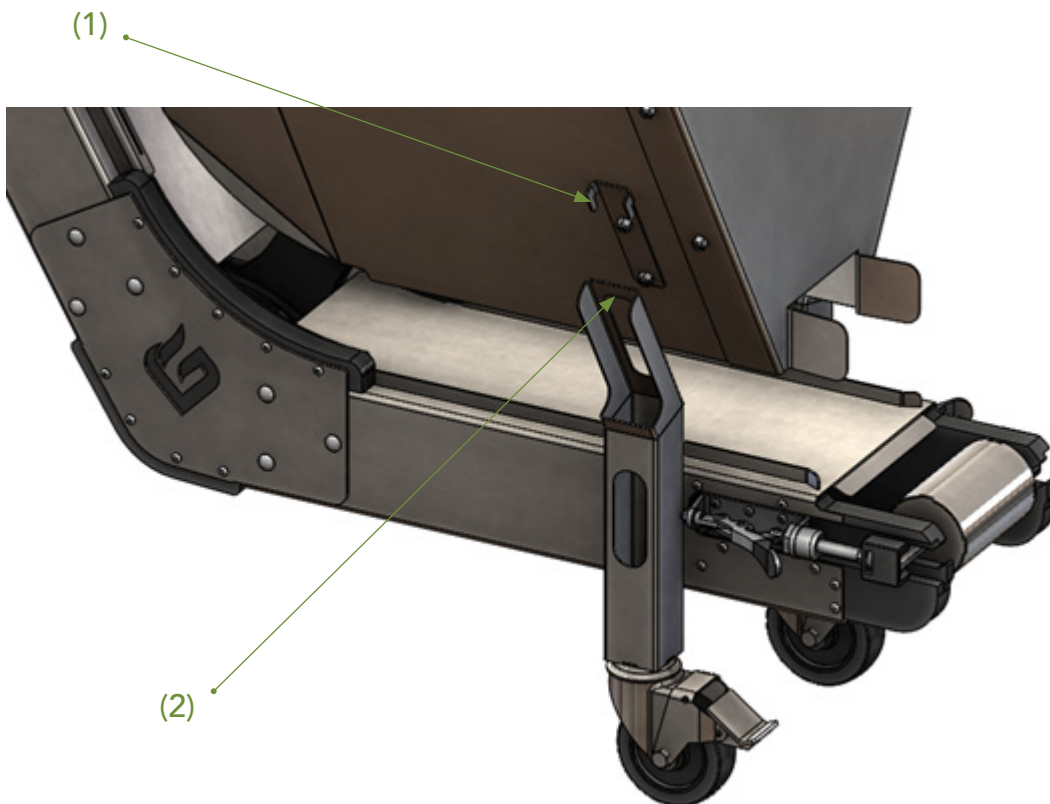
## UNPACKING

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

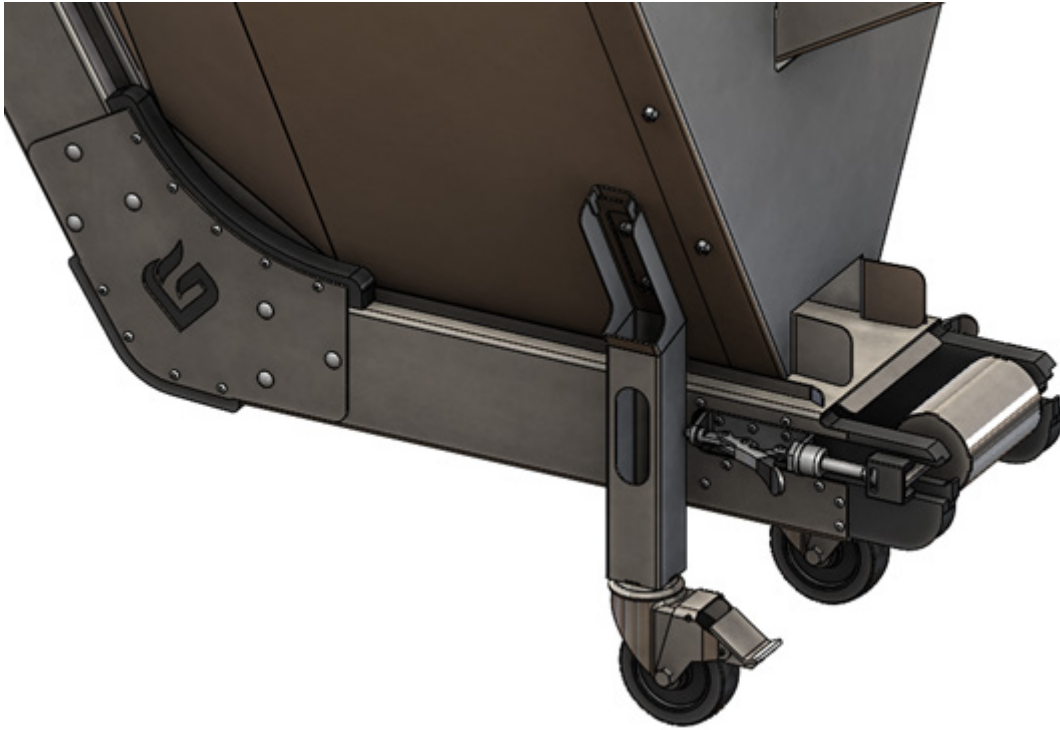
1. Remove the Rise Conveyor from the shipping container and remove all plastic and tape.
2. Remove any additional packaging material from the machine.
3. Ensure the machine is on a level surface and that the wheels are in the locked position.
4. Ensure the master power switch is in the off position and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

## HOPPER INSTALLATION

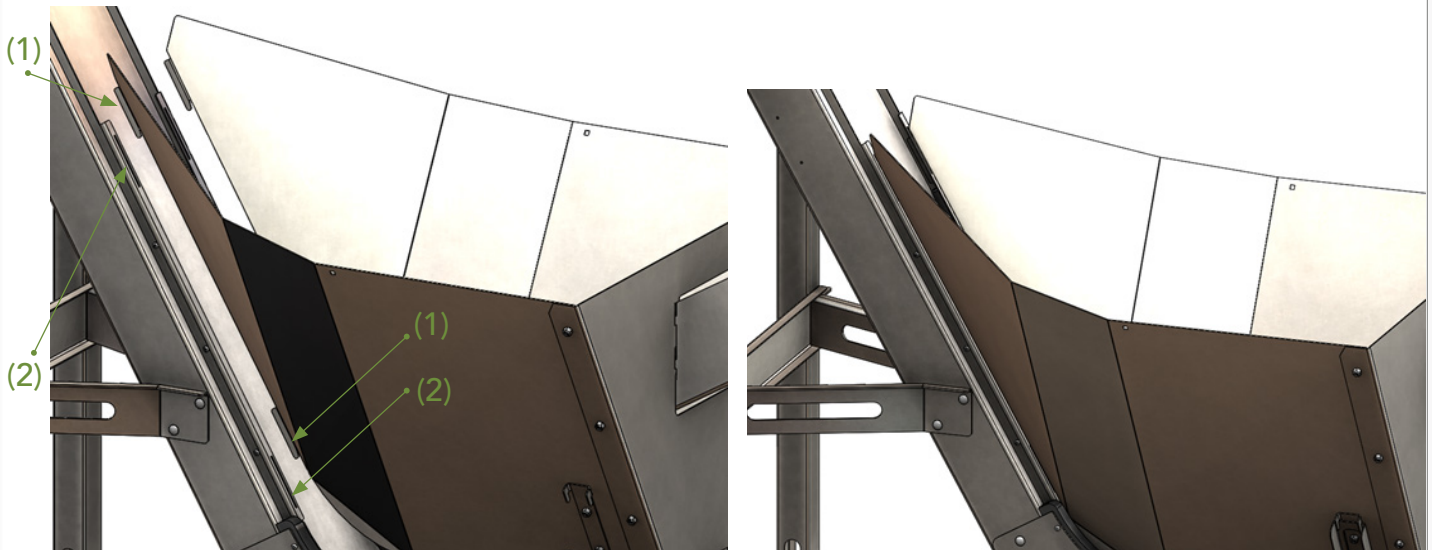
1. Slide the hopper brackets (1) into the two rear hopper cradles (2).



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

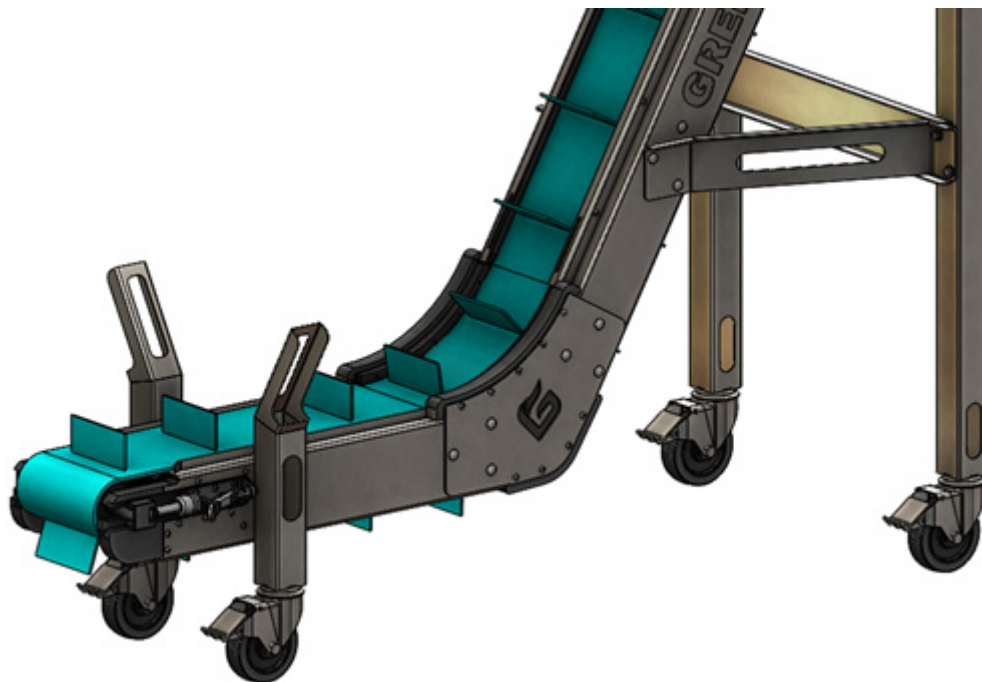
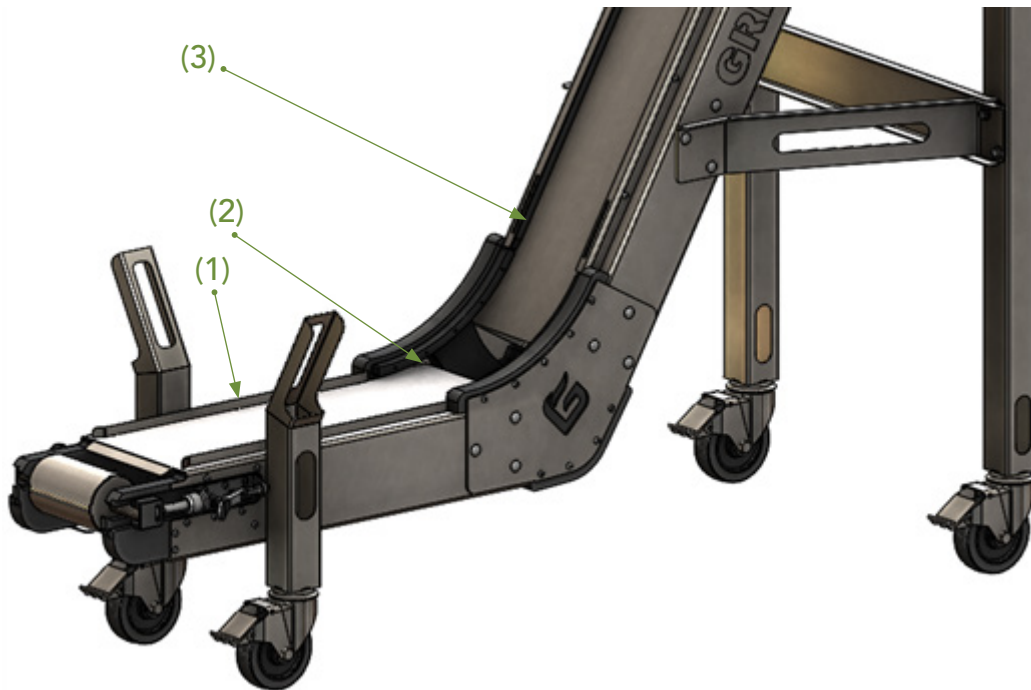


2. Slide the tabs on the walls of the hopper (1) into the slots of the secondary walls (2).



# BELT INSTALLATION

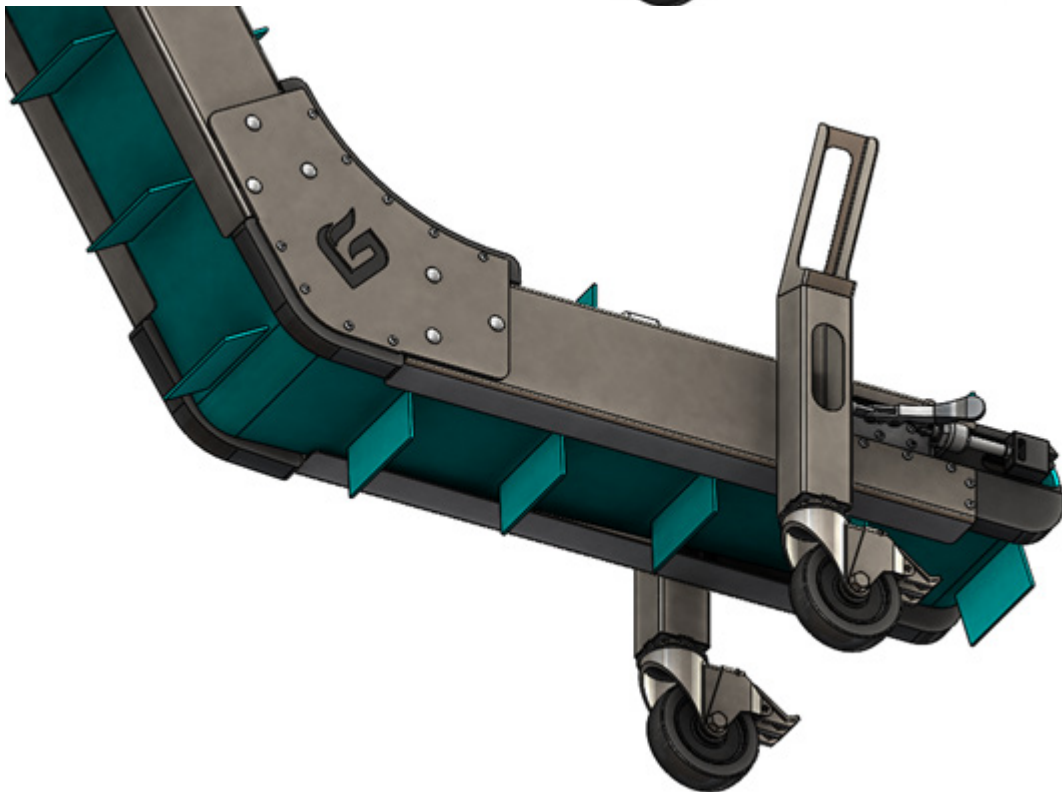
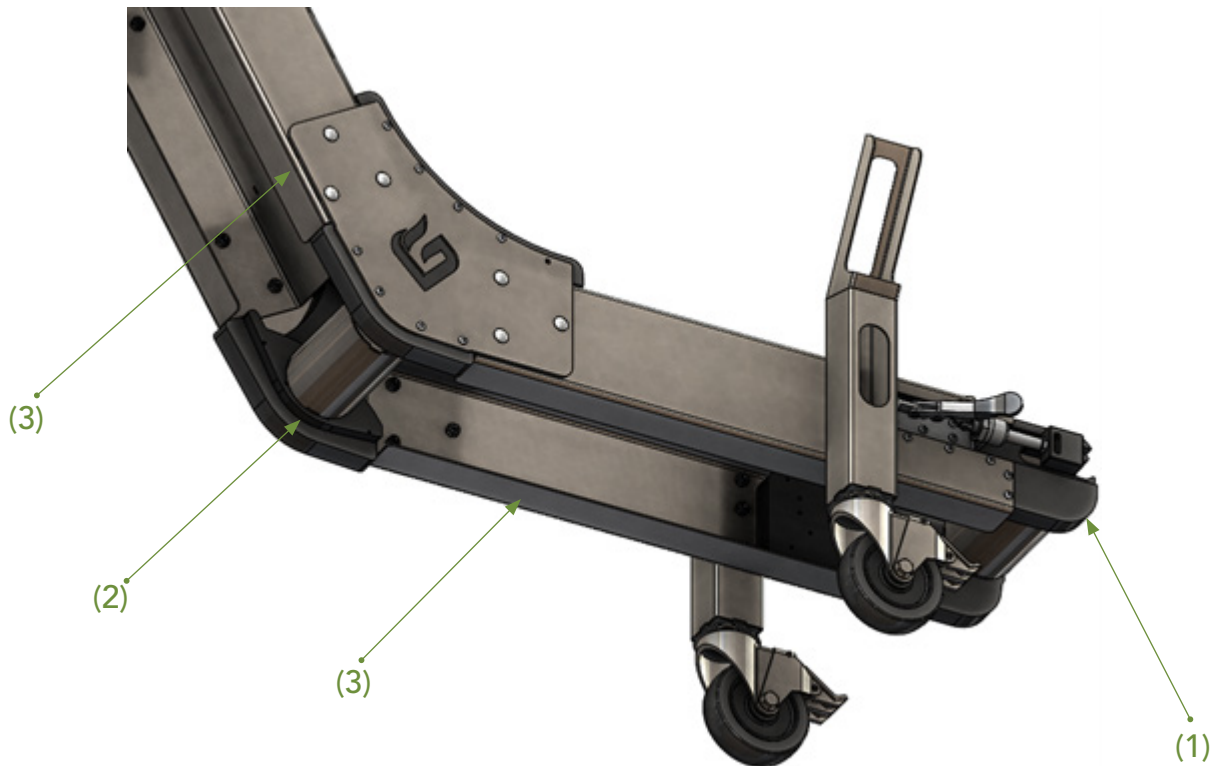
1. First, you must weave the belt through the top section of the machine.
  - a. Start by running the belt between the secondary walls (1), underneath the first guides (2), and under the shake guards (3).
  - b. Continue pulling the belt up to the top of the machine. **Tip:** The belt may slide back down, use the drive gears (shown in step three) to hold the belt in place.
  - c. The hopper is not shown, however this can be done with or without the hopper installed.





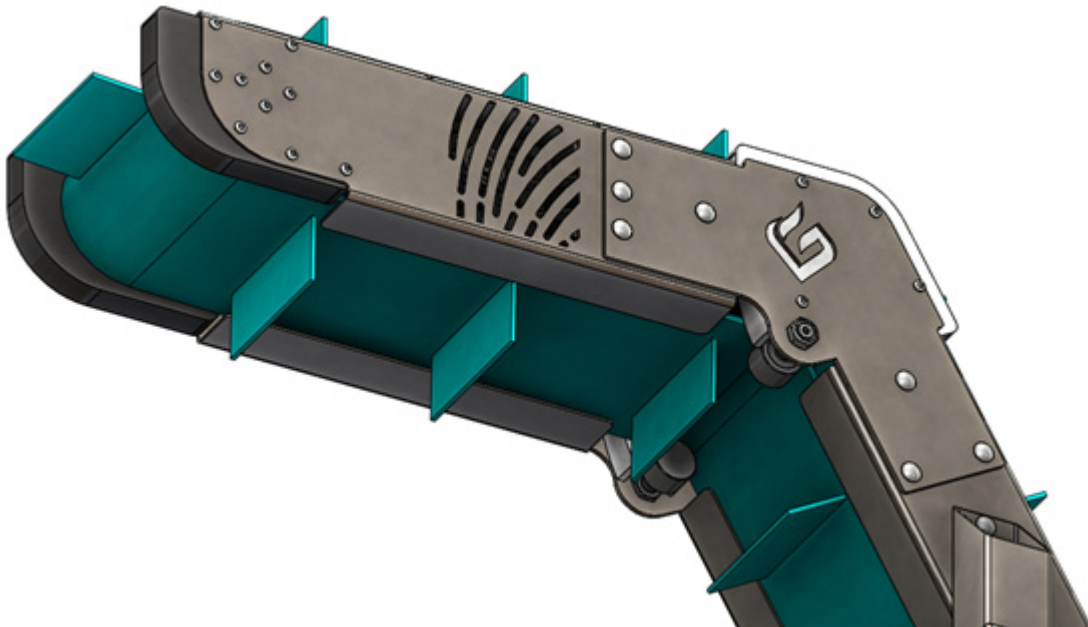
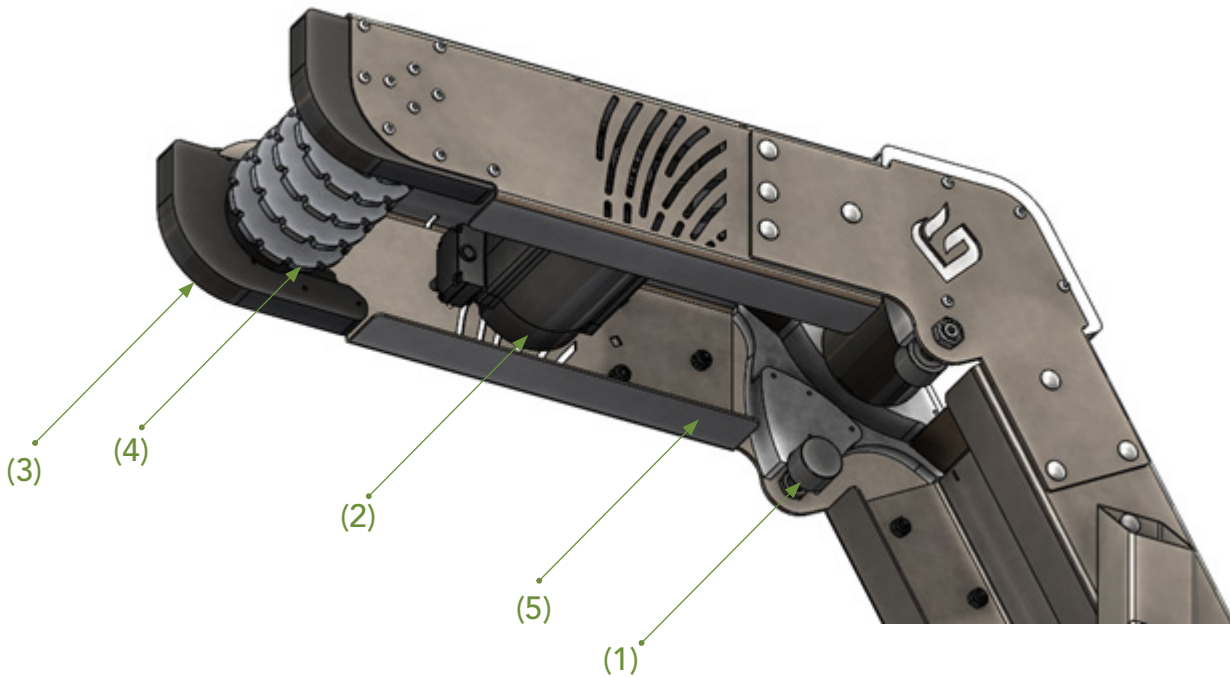
# BELT INSTALLATION

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).



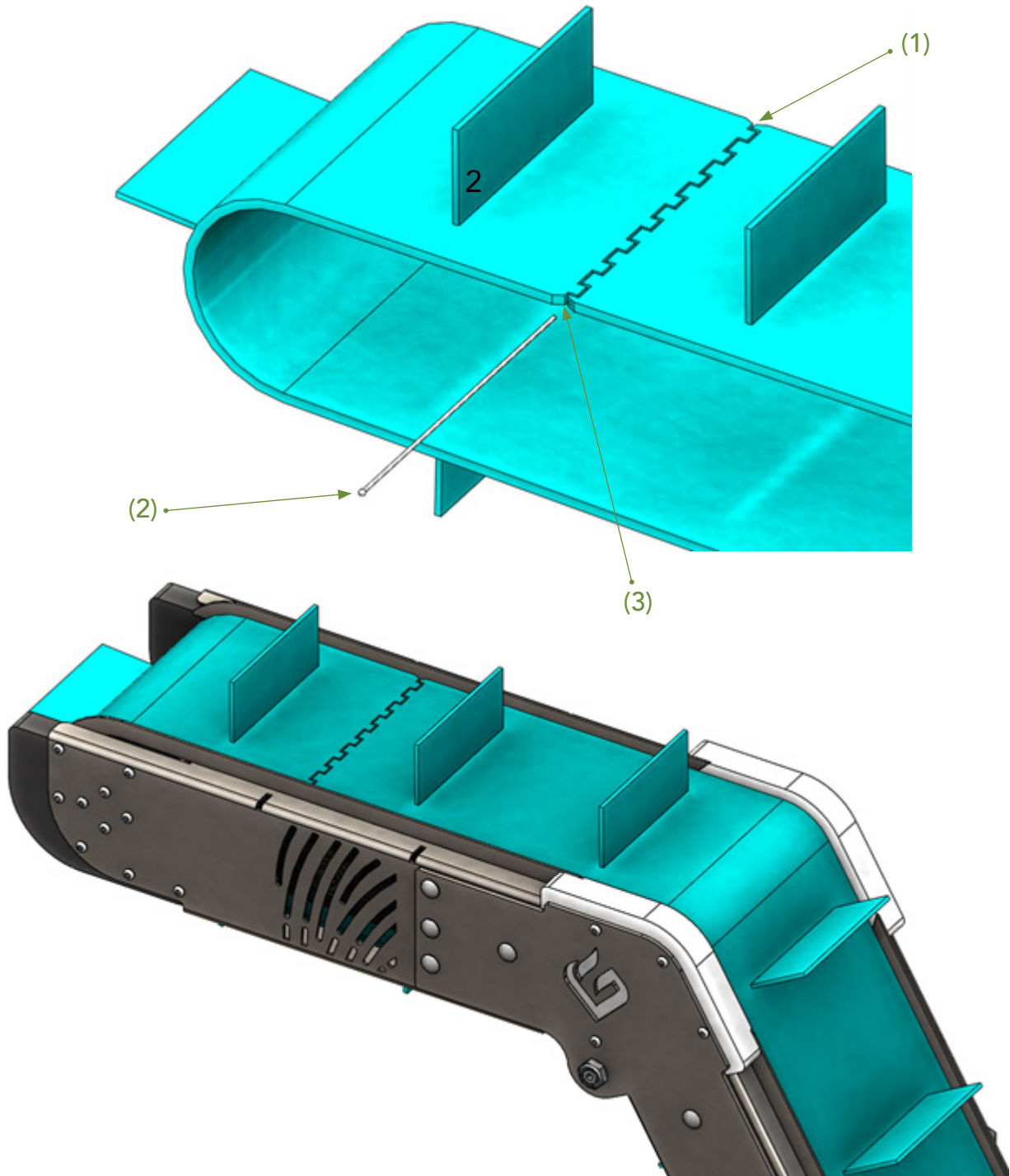
## BELT INSTALLATION

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. Here 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

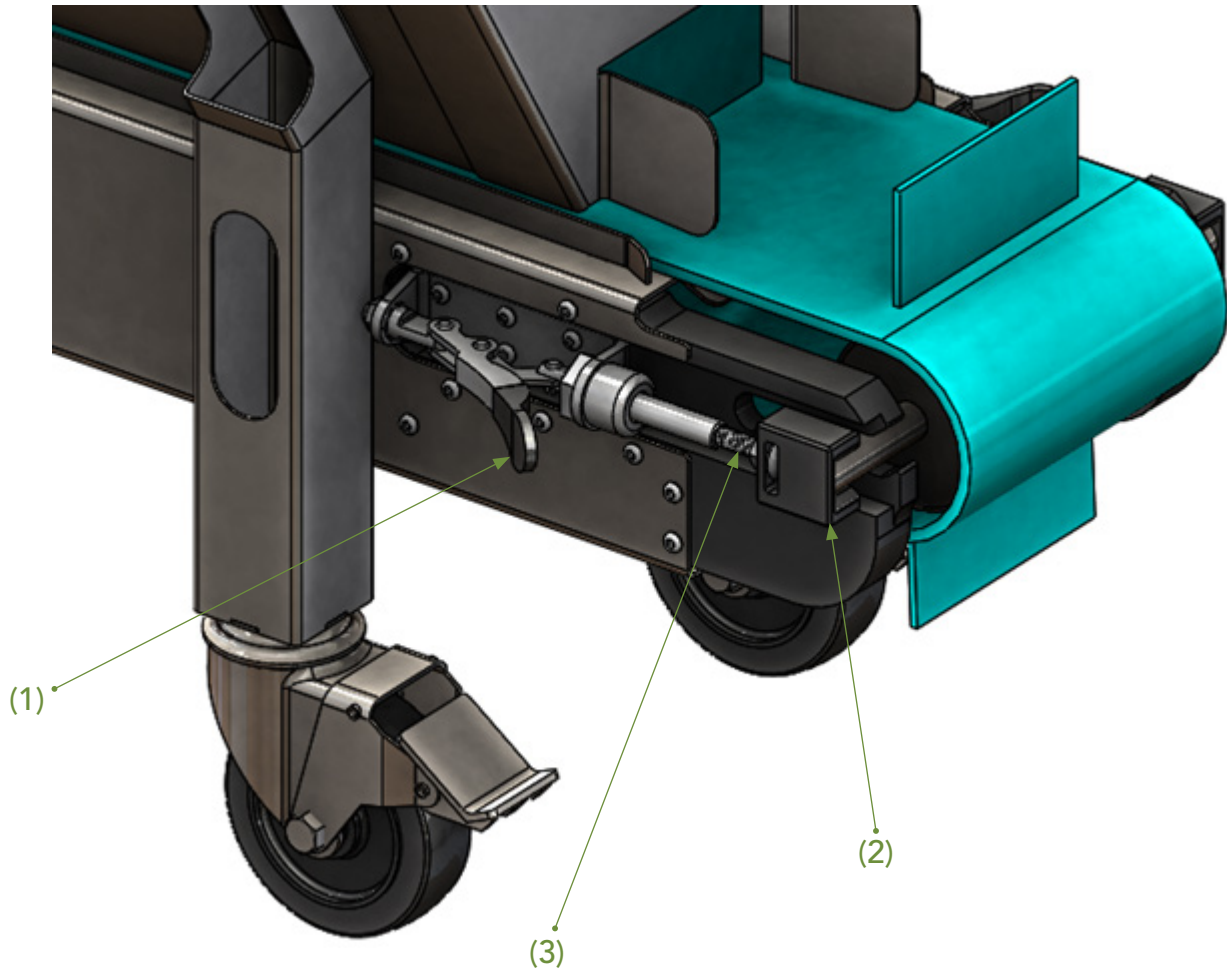
4. Lastly the provided stainless steel pin is used to lock the two ends of the belt together.
  - a. Intertwine the interlocking laces at the two ends of the belt (1). Then, slide the locking pin (2) through the penetrations (3) in each of the laces.
  - b. It is critical that the pin is pushed all the 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.





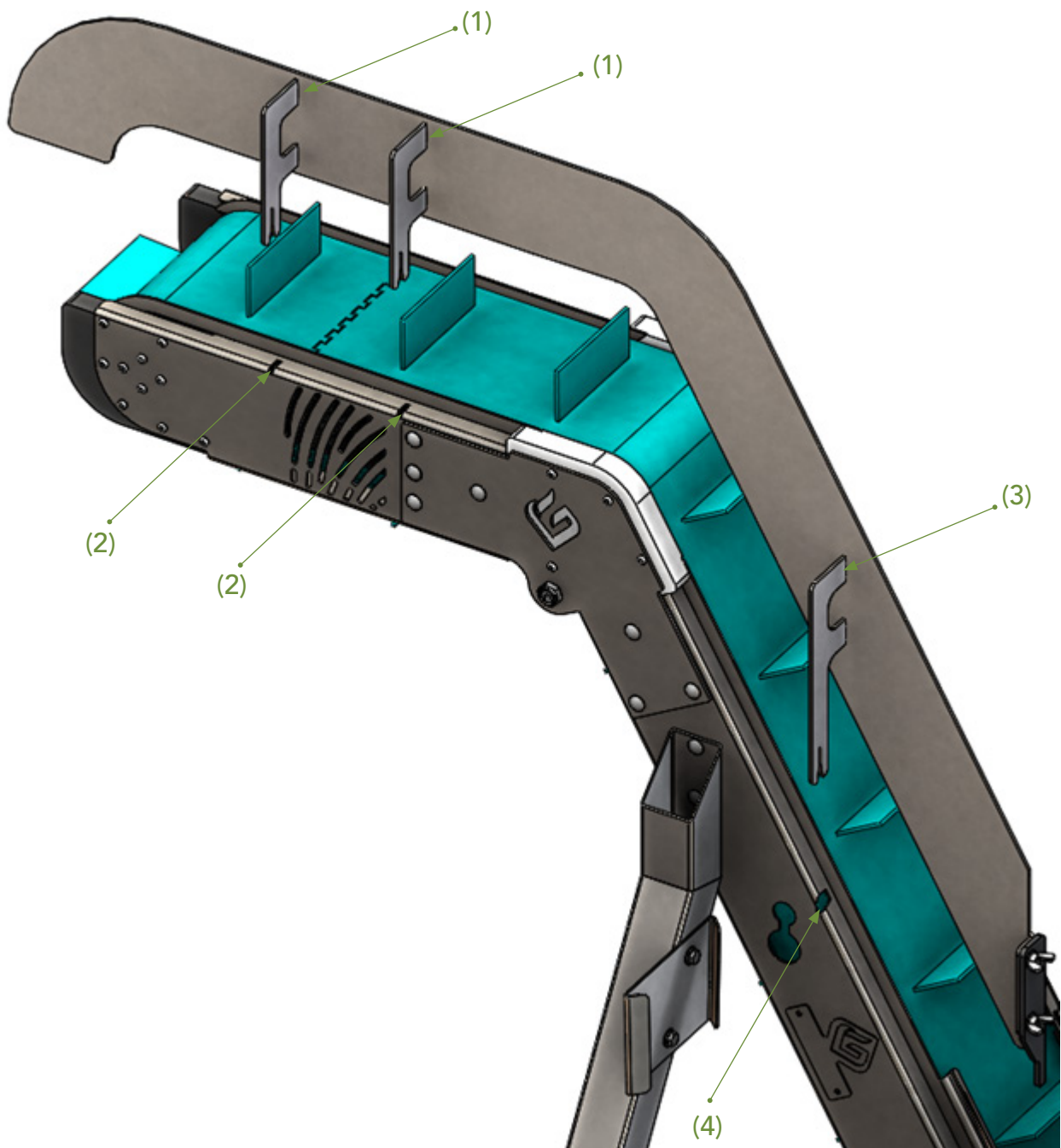
# BELT TENSIONING

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).



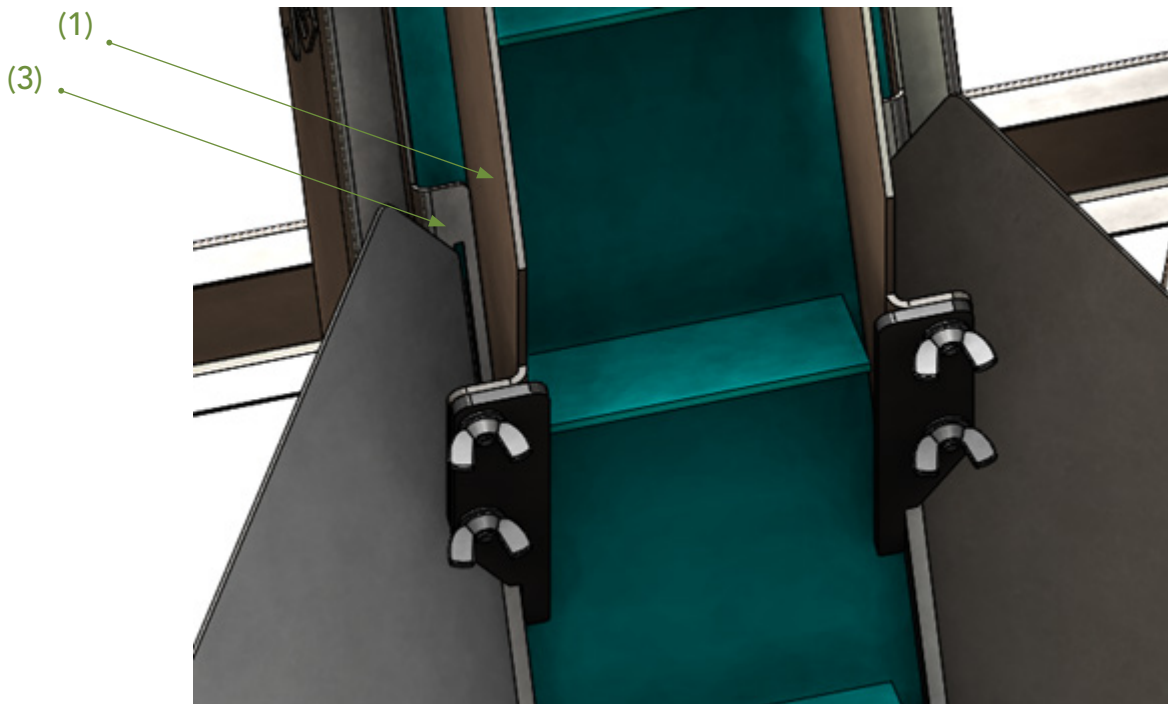
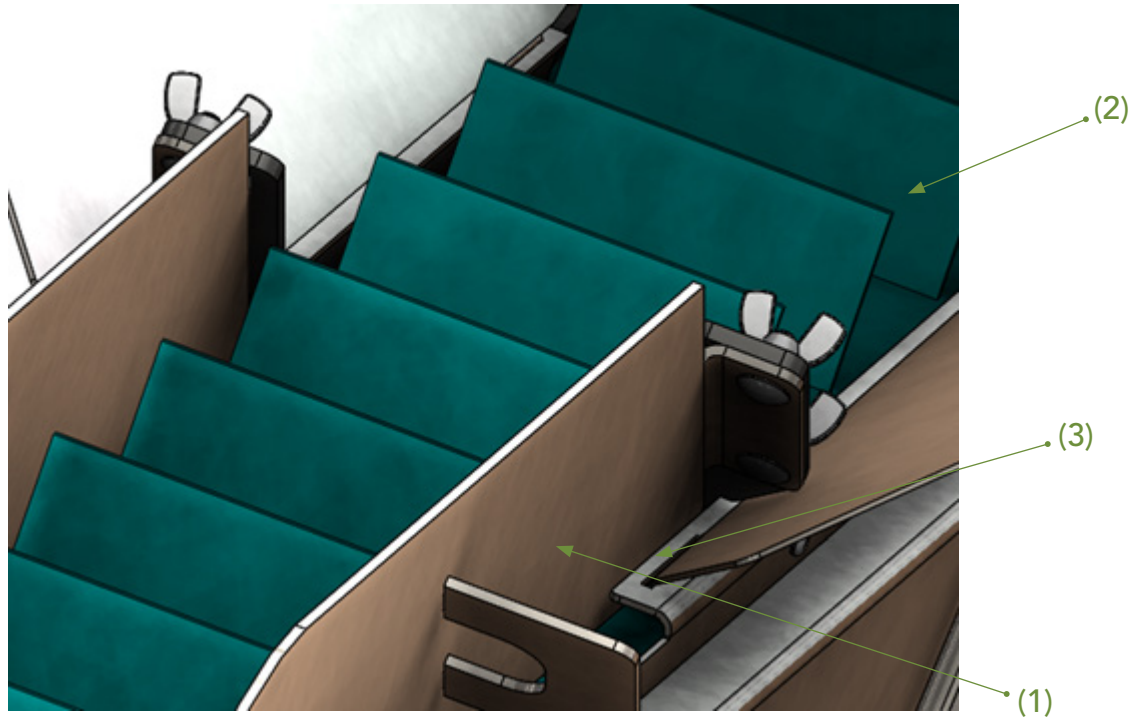
# PRIMARY WALL INSTALLATION

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.



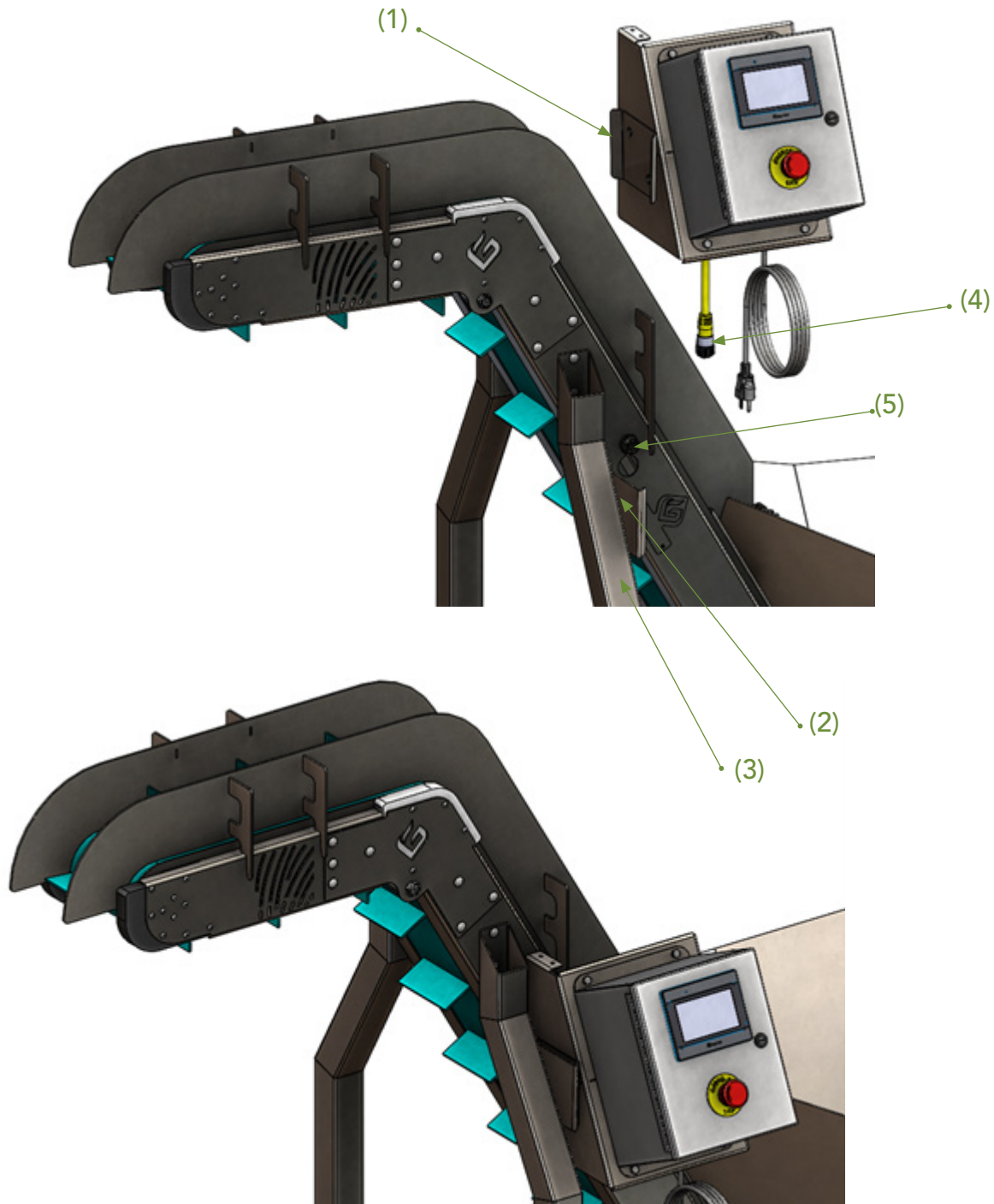
# PRIMARY WALL INSTALLATION

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 as 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 to 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 removeable 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 continuous mode, 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.

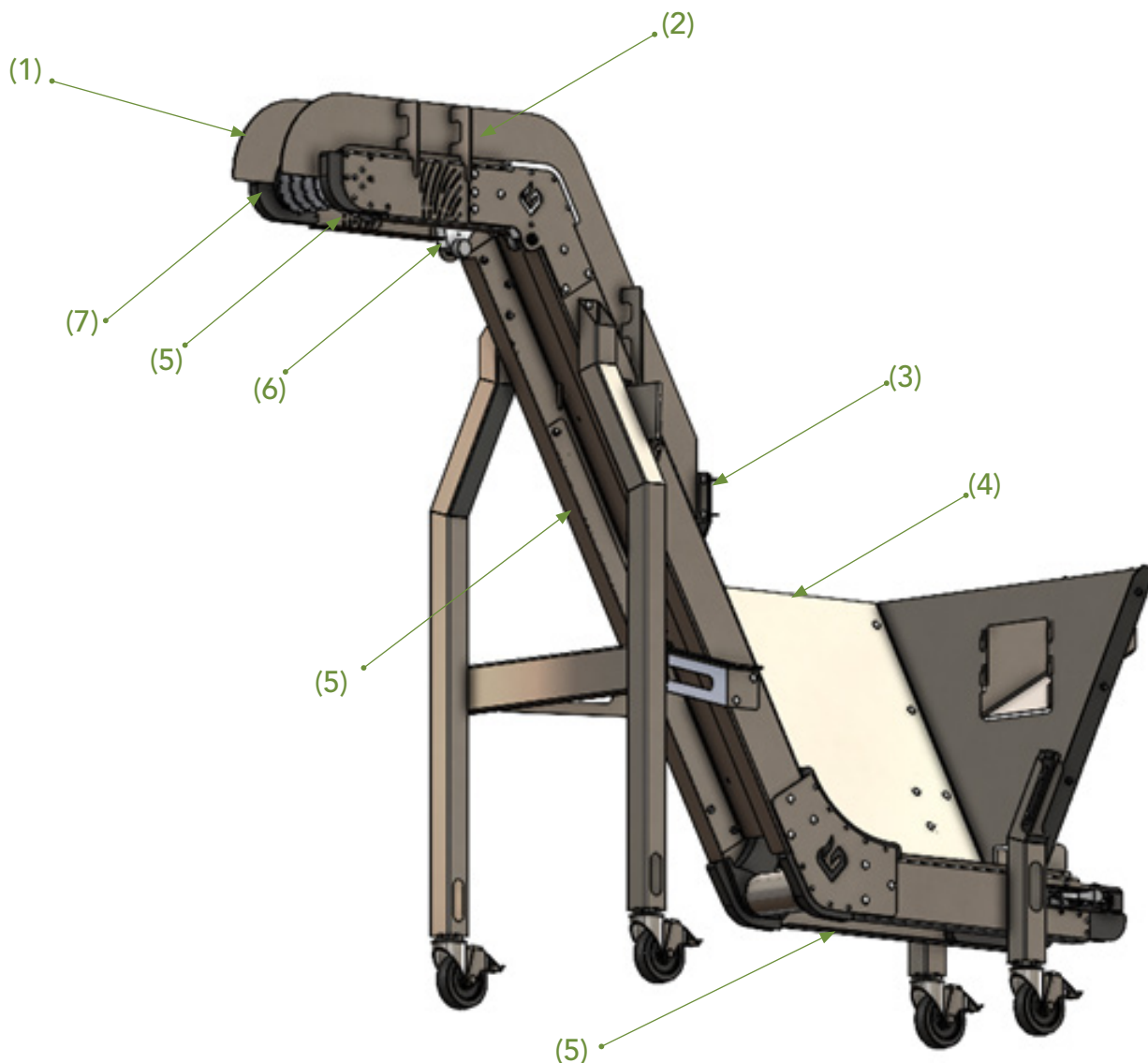
## EMERGENCY STOP

- 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

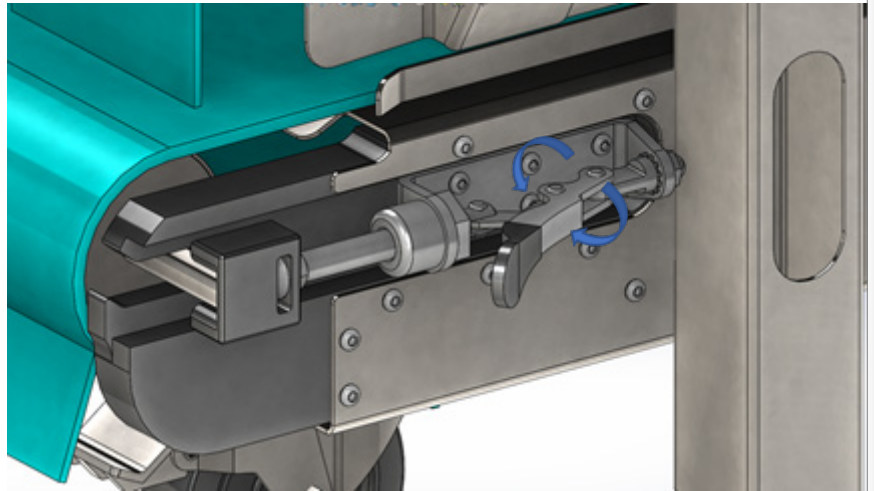
## No Power

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.

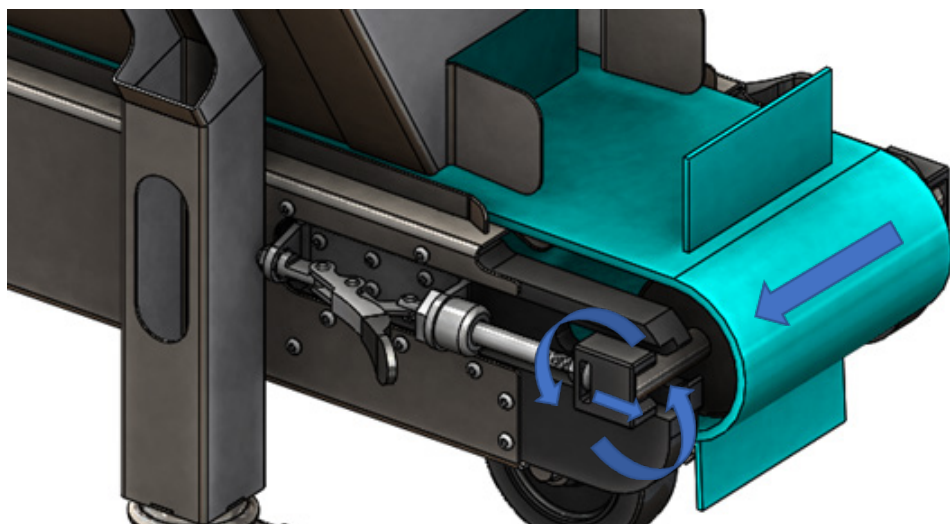
## Stuck Toggle Clamps

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

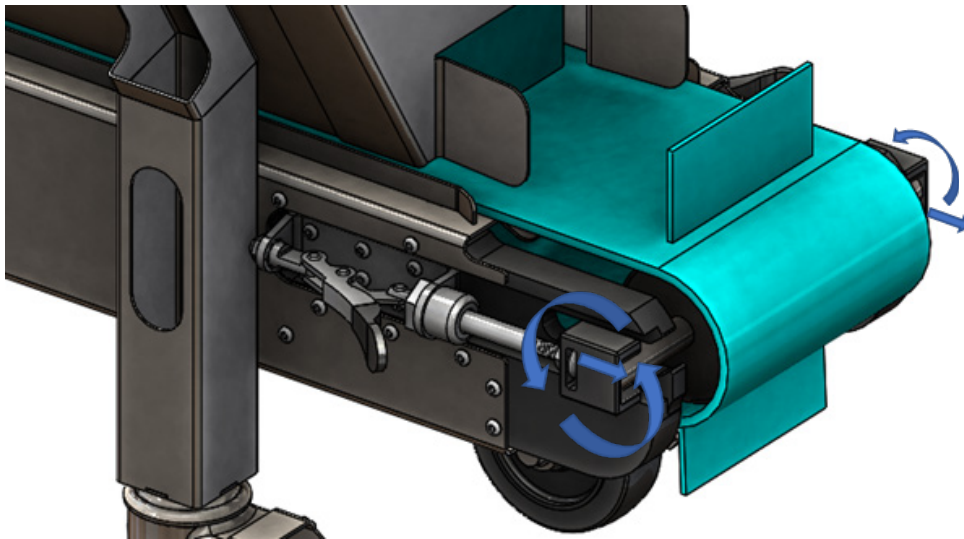
If the operator finds that the belt is excessively walking in one direction (i.e. riding up on the white UHMW guides, excessive wear, etc.), the operator must stop the machine and extend the one toggle clamp that is on the side that the excessive walk is occurring. It is recommended to only do one rotation 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 otherwise unnecessary wear may occur.

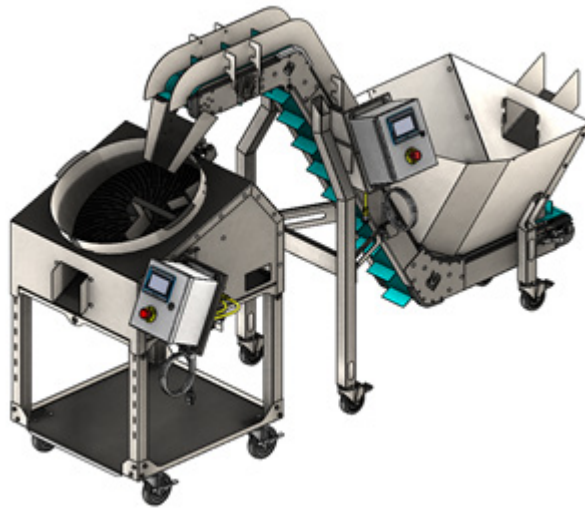


Any other issues, comments, or complaints can be submitted to [gbzservice@greenboz.com](mailto:gbzservice@greenboz.com).

# MODULAR SYSTEMS

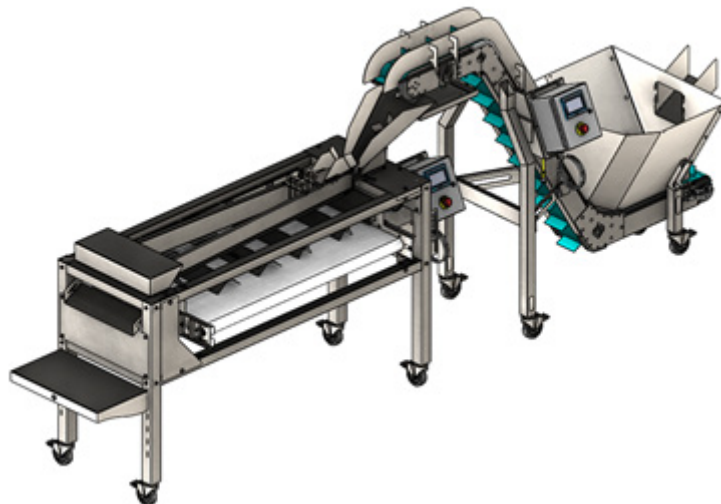
## No-Touch Trimming

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. With less touching, higher efficiency, and higher quality, this system is far greater than the sum of its parts.



## No-Touch Sorting

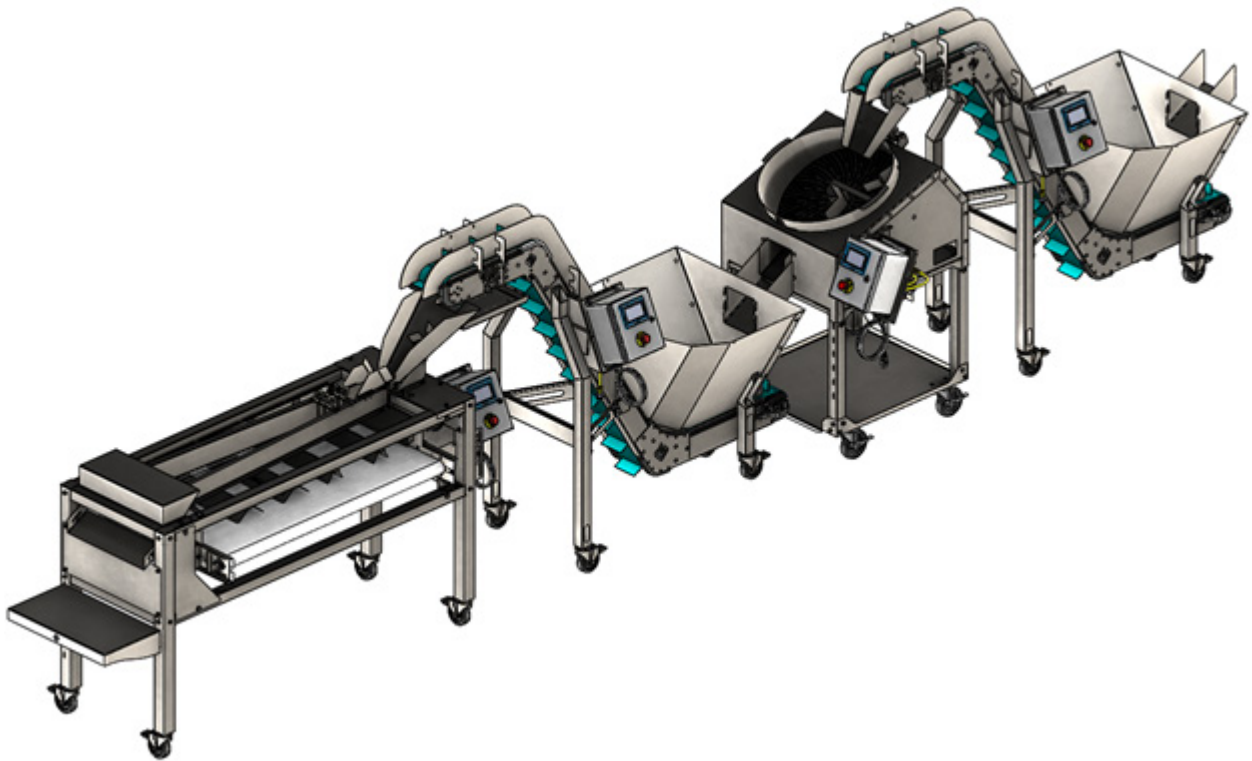
The Sorter's weakest point is its hopper. It can not hold more than a pound or two of product and when filled tends to bridge at the hopper's exit. When combined with the Rise Conveyor, the operator is no longer required to touch the material. The controlled flow of product helps stop any bridging, resulting 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, 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 12 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.

### 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.**

# 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.

\* Reprinted with permission from Midwest Industrial Rubber, Inc.

# 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.