USER GUIDE V1.4

TRIMINATOR HYBRID™ INFEED AND OUTFEED CONVEYORS

INTRODUCTION **3**
SAFETY MESSAGE 3
DISCLAIMER 4
WARNING LABELS 5
SERVICE AND REPAIRS 6
GENERAL SAFETY PRECAUTIONS **7**
COMPONENTS **9**
INFEED CONVEYOR 9
OUTFEED CONVEYOR 12
ASSEMBLY & INSPECTION **15**
GENERAL OPERATION **18**
INSTALLING AND TENSIONING THE CONVEYOR BELT 18
CONTROL PANEL OVERVIEW 19
MACHINE START-UP SEQUENCE 19
CLEANING & MAINTENANCE **21**
CLEANING THE CONVEYORS 21
PREVENTATIVE MAINTENANCE 22
BEARING REPLACEMENT 22
SPECIFICATIONS **31**
WARRANTY **32**

INTRODUCTION

Congratulations on your selection of the Triminator Conveyor! This User Guide contains information on how to set up and operate your Conveyor; please read it carefully before you set up and use your conveyor.

We suggest you read the warranty to fully understand coverage and your responsibilities of ownership. Keep this User Guide handy, so you can refer to it at any time. This User Guide is considered a permanent part of the conveyors and should remain with the conveyors if resold. The information and specifications included in this publication are those that were in effect at the time of approval for printing. Eteros Technologies, (Eteros) reserves the right, however, to discontinue or change specifications or design at any time without notice and without incurring any obligation. No part of this publication may be reproduced without written permission.

SAFETY MESSAGE

To ensure operator safety while in use, this device includes decals, guarding, and other safety features. Operators are encouraged to use caution and best judgment when using the equipment. Equipment should be serviced when required.

To avoid possible damage to the machine and risk of injury to the operator, consult with an Eteros Technologies representative to answer any questions.

This document refers to the Eteros Technologies conveyors as the Hybrid™ Trimmer Infeed or Outfeed Conveyor. Since these machines have rotating components, special safety precautions must be observed to reduce the risk of personal injury. Please read and understand these precautions thoroughly before using the machine.

All operators must read and understand this User Guide and be trained in the safe operation and use of the conveyors. We recommend the owner of this equipment develop a standard operating procedure specific to each worksite to address any local hazards or other conditions not outlined in this User Guide. The Hybrid™ Infeed and Outfeed must be inspected regularly for damage, component failure, and wear. The results of the inspection activity should be documented.

Eteros Technologies makes every effort to ensure the Hybrid™ Infeed and Outfeed Conveyors are compliant with all current safety standards. It is the responsibility of the owner to ensure all municipal, provincial, state, county, territorial, and federal codes, regulations, and standards have been met in each working location.

Do not lend or rent your machine without providing the User Guide. A first-time operator should receive practical instruction before using the machines. The machines are not to be used for any purpose other than those expressly stated in the User Guide, advertising literature, or other Eteros Technologies written material pertaining to the Hybrid™ Trimmer Infeed and Outfeed Conveyors.

Operators must be in good physical condition and mental health to operate these devices. Under no circumstances should the device be operated by any person under the influence of any substance, including drugs or alcohol, which might impair vision, dexterity, or judgment. Do not operate the conveyors when fatigued. Be alert. If tired while operating the device, take a break. Fatigue may result in loss of control. Working with any equipment can be strenuous. If you have any condition that might be aggravated by strenuous work, check with your doctor before operating the device.

DISCLAIMER

Eteros Technologies recognizes that the Hybrid™ Infeed and Outfeed Conveyors are purpose-built for processing cannabis by licensed producers. Please check all municipal, provincial/state, and federal laws and regulations before using the Hybrid™ Infeed and Outfeed Conveyors. Eteros Technologies does not promote or condone the use of processing equipment in any way that may be deemed illegal.

Eteros Technologies recognizes that our equipment can be used for processing herbs, hops, flowers, and many other products. It is not the responsibility of Eteros Technologies to confirm alternative applications for our equipment.

WARNING LABELS

Your safety and the safety of others are very important. We have provided important safety messages in this manual and on the Triminator Hybrid™ Conveyors. This information alerts you to potential hazards that could hurt you or others. Please read these messages carefully. Of course, it is not practical or possible to warn you about all the hazards associated with operating or maintaining conveyors. You must use your own good judgment.

You will find important safety information in a variety of forms:

- **Safety Labels** - located on the conveyors.
- **Instructions** - how to use the conveyors correctly and safely.
- **Safety Messages** - preceded by a safety alert; a symbol, and one of three signal words: DANGER, WARNING, or CAUTION.

	**DANGER:** Indicates a hazardous situation that, if not avoided, will result in serious injury and/or death. This signal word is to be limited to the most extreme situations; typically for machine components that, for functional purposes, cannot be guarded.
	**WARNING:** Indicates a potentially hazardous situation that, if not avoided, could result in serious injury and/or death. It includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.
	**CAUTION:** Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

Damage Prevention Messages - You will also see other important messages that are preceded by the word NOTICE. This word means:

NOTICE **Your conveyors or other property can be damaged if you don't follow instructions.**

SERVICE AND REPAIRS

Repairs may only be carried out by Eteros Technologies or a designated authorized agent (service technician).

Should the need arise, please notify us:

Eteros Technologies
6175 South Sandhill Road, Unit 600,
Las Vegas, NV 89120

www.eteros.com
www.thetriminator.com
service@thetriminator.com
(530) 265 4277

Improper interfacing, improper repair, or an unauthorized modification could result in void warranty claims.

GENERAL SAFETY PRECAUTIONS

KNOW THE SAFETY INFORMATION

Read and become familiar with the entire User Guide. Learn the equipment applications, limitations, and possible hazards.

KEEP GUARDS AND SHIELDS IN PLACE

Keep all guarding in place and in working order to protect both the device and the operator.

WORK IN A SAFE ENVIRONMENT

Do not use equipment in a dangerous environment or damp/wet locations. Never expose the control panel directly to rain or water. Keep the work area well-illuminated.

WORK AWAY FROM FLAMMABLE LIQUIDS OR GASES

Do not use the device in the presence of flammable liquids or gases.

KEEP THE WORK AREA CLEAN

Cluttered areas and workspaces invite accidents.

TRAINED OPERATORS ONLY

Keep children and bystanders away from the device. visitors should be kept at a safe distance from the work area.

DON'T FORCE THE EQUIPMENT

It will operate optimally and safely at the rate for which it was designed.

USE THE RIGHT TOOL

Don't force the device to do a job for which it was not designed.

WEAR PROPER APPAREL

Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry that may get caught in moving parts. Non-slip footwear is recommended. Wear a protective hair covering to contain long hair.

ALWAYS OPERATE DEVICE IN A WELL-VENTILATED AREA

Dust generated from certain materials can be a health hazard. Use a dust collection system whenever possible.

WEAR A FACE MASK OR DUST MASK

This device may produce dust or operate near other dust-producing machines. If dust extraction is not considered, a dust mask must be worn.

POWER DOWN AND DISCONNECT

Power down and disconnect equipment before servicing and when changing any accessories, consumables, or other components.

CHECK FOR DAMAGED PARTS BEFORE OPERATION

The equipment should be inspected prior to use to ensure proper operation in performing its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. Any damaged part including guards should be properly repaired or replaced.

ALWAYS WEAR EYE PROTECTION

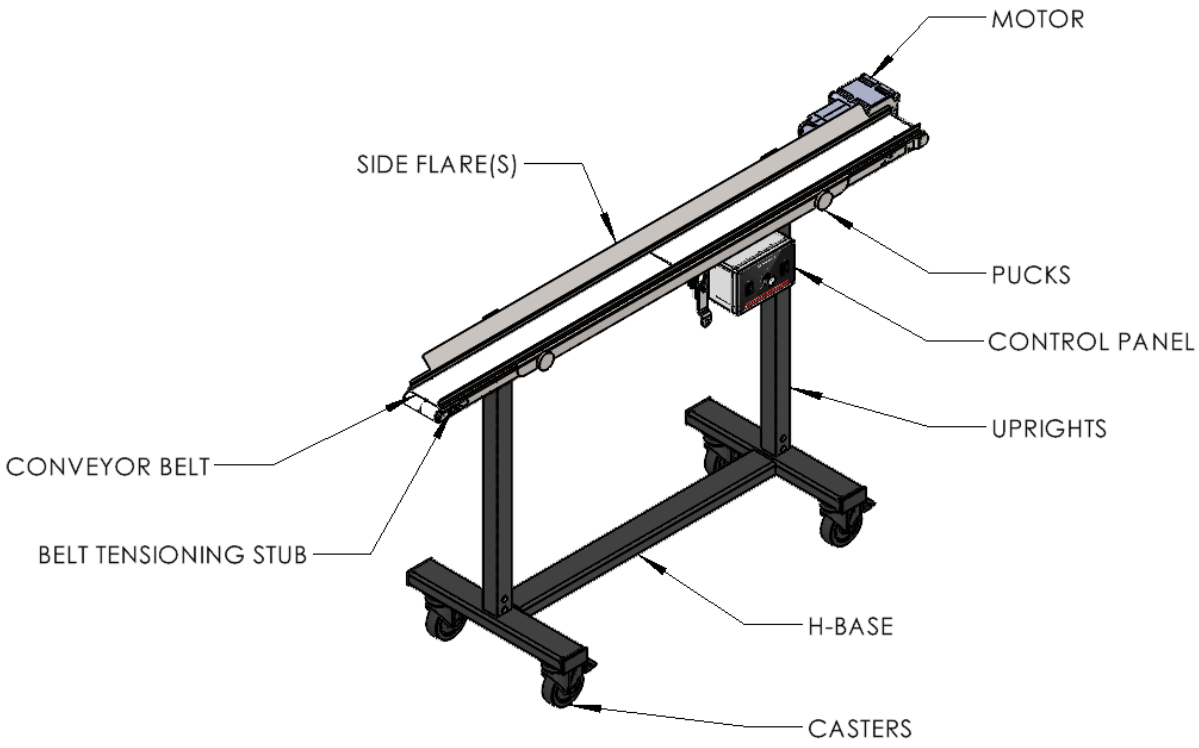
Safety goggles can protect your eyes from fast-moving debris.

ALWAYS WEAR EAR PROTECTION

Wear ear muffs or earplugs when operating loud machinery.

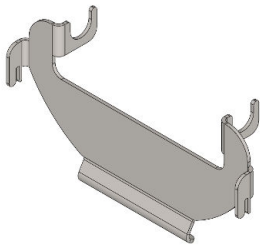
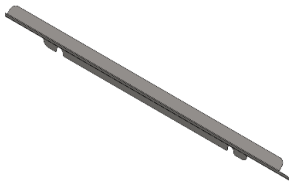
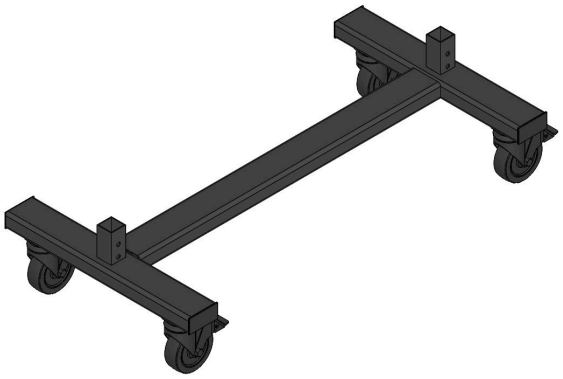
COMPONENTS

INFEED CONVEYOR



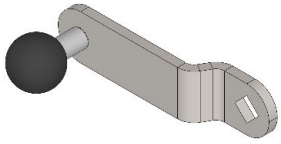
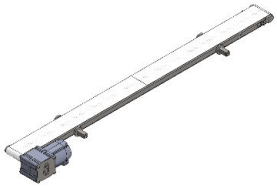
INFEED CONVEYOR:

WHAT'S IN THE BOX?

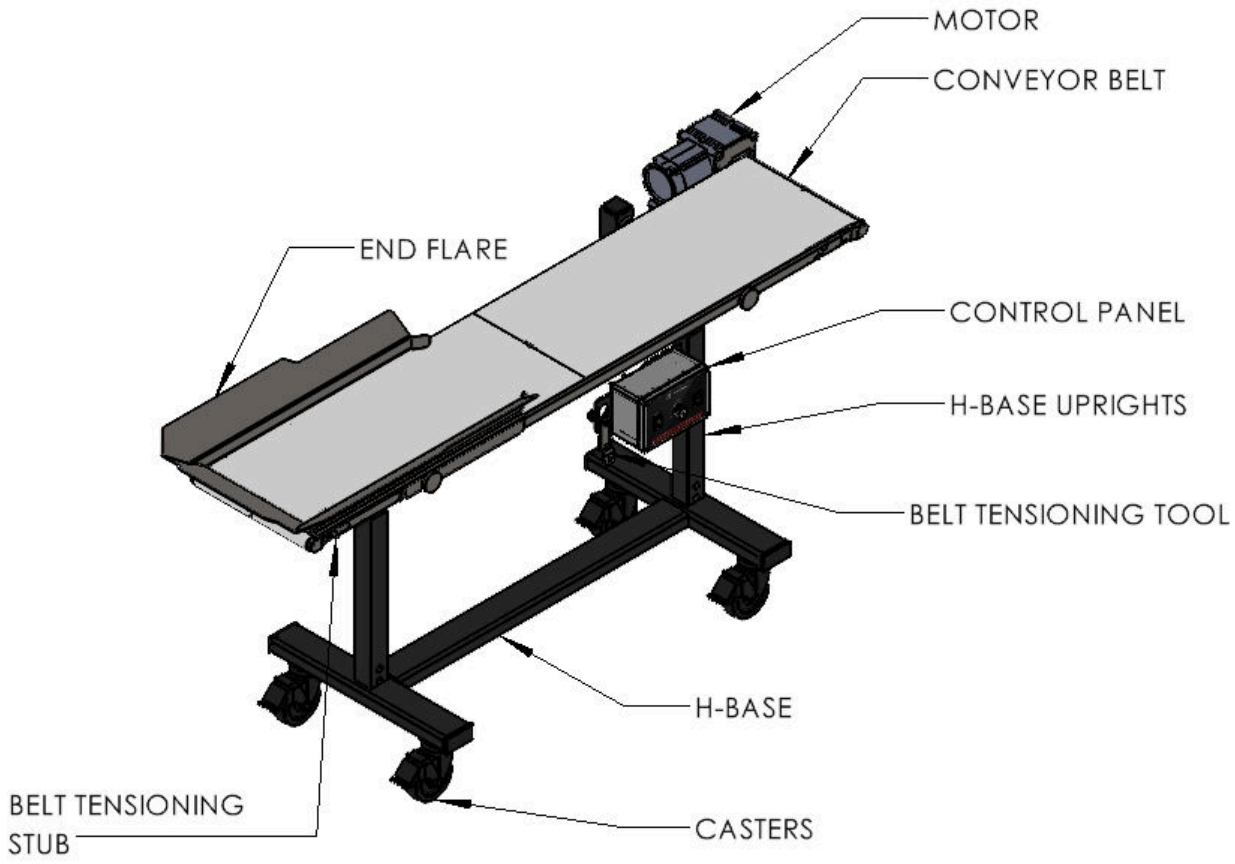
	1x INFEED GUIDE PLATE
	2x FLARE
	1x H-BASE
	2x H-BASE UPRIGHT

INFEED CONVEYOR:

WHAT'S IN THE BOX?

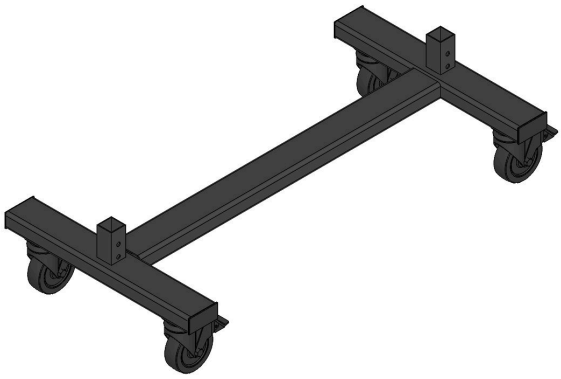
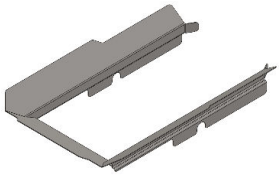
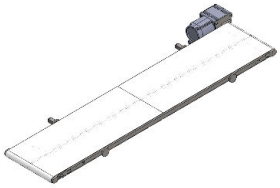
	1x TENSIONING TOOL
	1x INFEED BODY
	1x CONTROL BOX

OUTFEED CONVEYOR



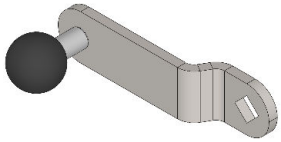
OUTFEED CONVEYOR:

WHAT'S IN THE BOX?

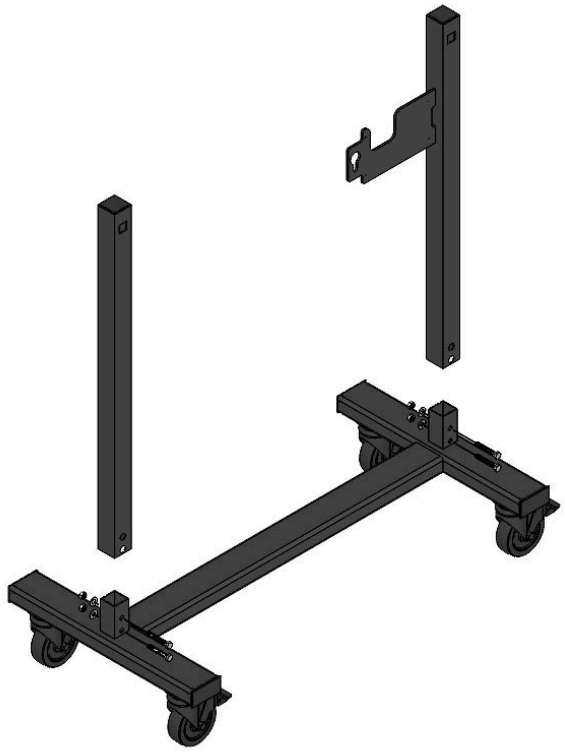
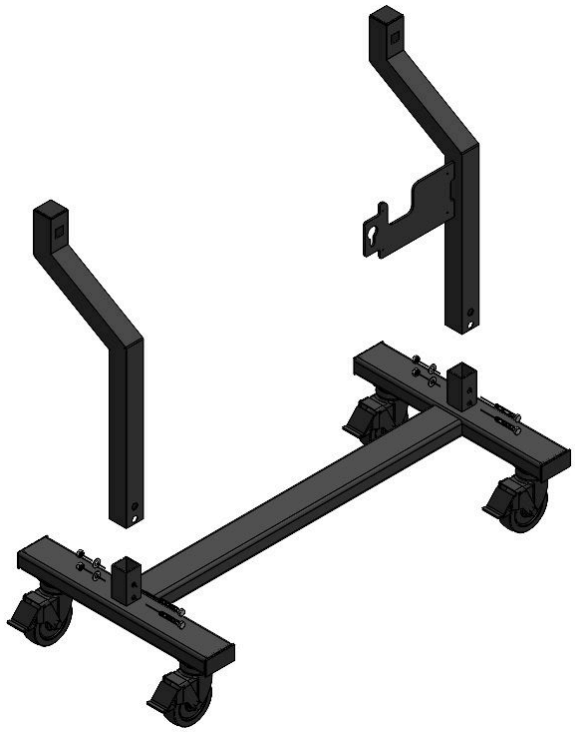
	2x H-BASE UPRIGHT
	1x H-BASE
	1x END FLARES
	1x OUTFEED BODY

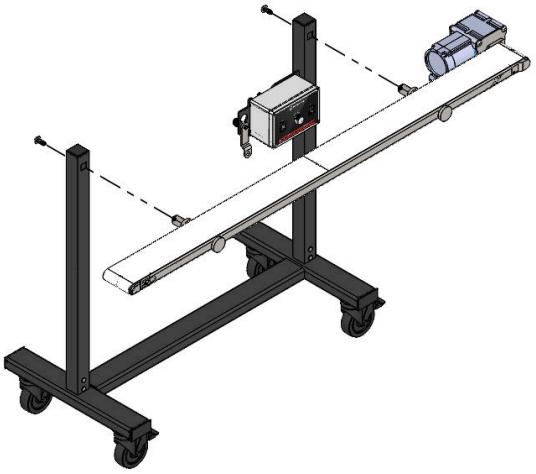
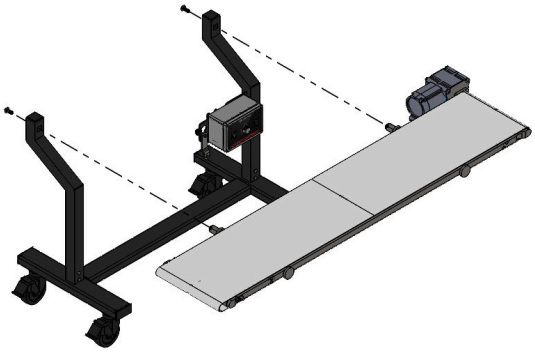
OUTFEED CONVEYOR:

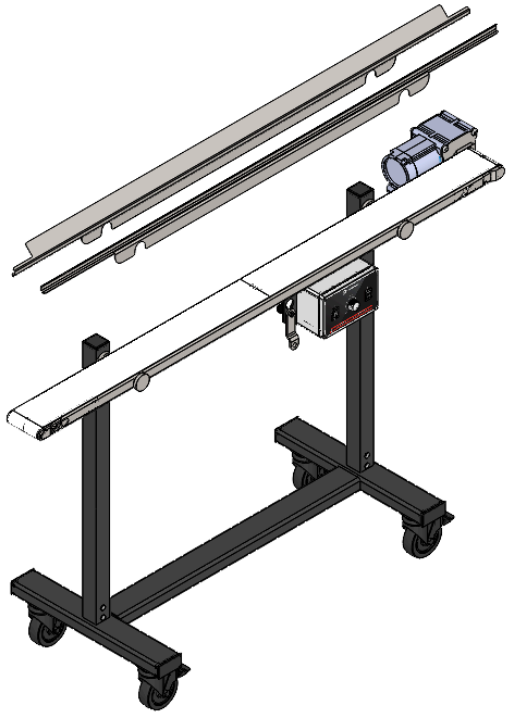
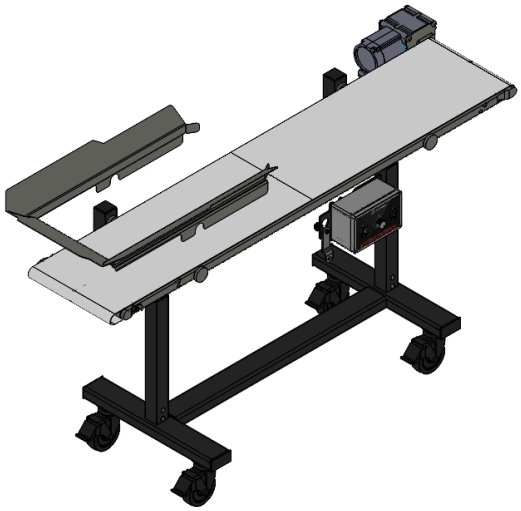
WHAT'S IN THE BOX?

	1x TENSIONING TOOL
	1x CONTROL BOX

ASSEMBLY & INSPECTION

Hybrid™ Infeed Conveyor	Hybrid™ Outfeed Conveyor
	
Step 1: Install uprights to base using 4x 5/16-18 hex bolts with washers and nuts. Ensure that the uprights are installed in the orientation shown.	**Step 1:** The steps to install the uprights on the Hybrid™ Outfeed Conveyor are the same as for the Infeed. Take care to install the uprights in the same orientation.

Hybrid™ Infeed Conveyor	Hybrid™ Outfeed Conveyor
	
Step 2: Install the Infeed body to the uprights by inserting the square tubes through the square holes in the uprights. Use 2x ½-13 screws to fasten the Infeed body to the frame. Enlist the help of a colleague to assist with lifting the conveyor body and lining up the square tubes. Ensure that the conveyor is shown in the orientation shown, with the motor on the same side as the control panel.	**Step 2**: Follow the same steps as the Hybrid™ Infeed Conveyor to attach the outfeed body to the frame.

Hybrid™ Infeed Conveyor	Hybrid™ Outfeed Conveyor
	
Step 3: Install the Side Flares onto the Hybrid™ Infeed Conveyor by sliding the circular cutouts onto the round pucks. The side flares should be installed so that they form a "V" shape.	**Step 3:** Install the End Flares onto the Hybrid™ Outfeed Conveyor by sliding the circular cutouts onto the round pucks. It is recommended that the End Flares be installed on the side opposite of the motor.

GENERAL OPERATION

INSTALLING AND TENSIONING THE CONVEYOR BELT

1. Slide the conveyor belt onto the metal body from the side of the machine.
2. Ensure the groove on the underside of the belt is positioned in the slots of the rollers at each end.
3. Using the TENSIONING TOOL, turn the BELT TENSIONING STUB clockwise until the belt is tensioned. When the belt is adequately tensioned, the BELT TENSIONING STUB will provide significant resistance against further turning. DO NOT TENSION THE BELT PAST THIS POINT. DO NOT USE A POWER TOOL TO TENSION THE BELT. PERMANENT DAMAGE WILL RESULT.

CONTROL PANEL OVERVIEW

Figure 1

LEFT: ON/OFF: Turns the conveyor on or off. In the on position, the conveyor will immediately begin running at the set speed and direction. In the off position, no power is delivered to the machine.

MIDDLE: SPEED CONTROL: Rotate the knob clockwise to increase the belt speed, and rotate the knob counterclockwise to reduce belt speed.

RIGHT: DIRECTION CONTROL: Flipping the direction switch will flip the travel direction of the belt.

MACHINE START-UP SEQUENCE

1. Plug the power cord into a 110V/220V outlet.
2. Ensure belt is tensioned.
3. Ensure side panels are installed.

4. Flip the power switch to the ON position.
5. Flip the direction switch to set the conveyor to the correct travel direction.
6. Turn the speed adjustment knob clockwise to increase the belt speed, or counterclockwise to reduce the belt speed.

CLEANING & MAINTENANCE

CLEANING THE CONVEYORS

Eteros conveyors are washdown-rated and feature easily removable conveyor belts.

1. Flip the power switch to the OFF position and disconnect the power cord.
2. Remove side panels by simply lifting them off the conveyor.
3. Using the TENSIONING TOOL, while standing at the end of the conveyor, turn the BELT TENSIONING STUB away from where the operator is standing. Continue turning until the BELT TENSIONING STUB bottoms out. A clear increase in turning resistance will be felt at this point. DO NOT FORCE THE BELT TENSION ADJUSTER PAST THE BOTTOMING-OUT POINT. DO NOT USE ANY POWER TOOLS TO TURN THE STUB. DOING SO WILL RESULT IN PERMANENT DAMAGE.
4. Grip the belt at each side, and slide it sideways off the metal body of the conveyor.
5. Spray down or soak the belt in diluted cleaner (such as GMP Solutions Step 1 Cleaner) for 5 - 10 minutes. If necessary, use a cloth or soft-bristled brush to remove stubborn soils. Rinse thoroughly (pressure washer okay) with warm or hot water (maximum 55°C/130°F) and allow to dry. Apply a sanitizer if necessary as part of your sanitation SOP.
6. Spritz metal body and frame with degreaser, allowing time for the degreaser to sit on surfaces and penetrate any soils. Use a cloth to remove any stubborn soils. Rinse thoroughly (pressure washer okay) with warm or hot water (maximum 55°C/130°F) and allow to dry. Take care to wash the underside of the conveyor where internal components are housed.
7. Avoid pressure washing the CONTROL PANEL. Use a damp cloth with warm water to remove any residue or buildup on the buttons and dial.
8. Reinstall the belt onto the machine.

PREVENTATIVE MAINTENANCE

Eteros recommends removing the side panels and belt to clean the machine daily as outlined in the CLEANING THE CONVEYORS section of this user guide. The side panels are designed to prevent plant matter from accumulating in unwanted areas if installed correctly, but some material may still enter these areas. Regularly inspect the machine to ensure unintended dirt buildup is not occurring.

BEARING REPLACEMENT

Should the need arise to replace the bearings in either your Infeed or Outfeed Conveyor, the process is straightforward and involves little more than removing some screws. Follow along with the steps below and you'll have your conveyor back up and running in no time!

Please contact Eteros Technologies using the details in the SERVICE & REPAIRS section to order replacement bearings or to get bearing specifications for your local bearing supplier.

INFEED CONVEYOR: TENSIONING SIDE

1. Start by removing the side flares.
2. Use the conveyor tensioning tool to remove tension from the belt, then slide the belt off and set aside.
3. Using a 5/32 hex key, undo the two screws that secure the tensioning assembly to the body of the conveyor. (See Figure 2)

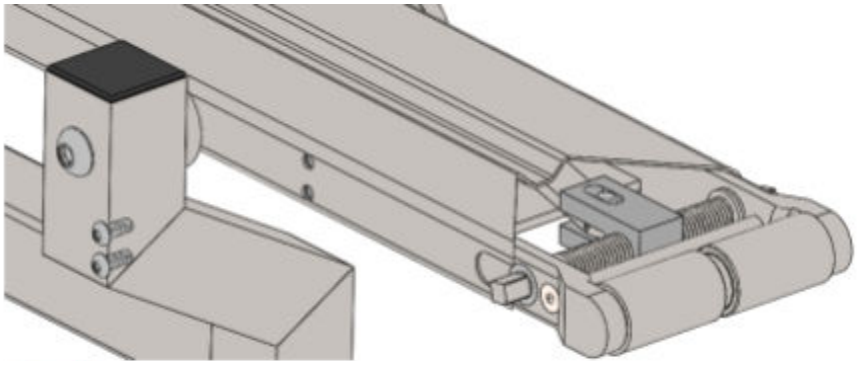


Figure 2

4. With the screws removed, grab onto the roller and slide the whole assembly right out of the conveyor. You may need to wiggle the assembly a little bit as you are pulling it out.

5. Set the tensioning assembly upside down on a table or workbench.

6. Using a 1/8 hex key, remove the 4 screws securing the plate to the two side arms. (See Figure 3)

7. Using a 5/32 hex key, remove the flathead screws from the round bar that spans across the tensioning assembly. (See Figure 4)

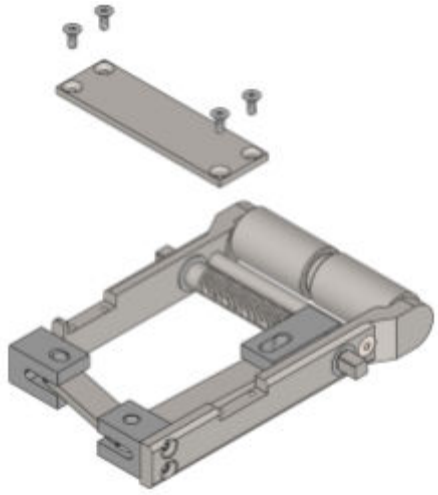


figure 3

8. Separate the left arm by pulling it free from the roller and belt tensioning stub. To separate the right arm, remove two more ¼-20 screws using a 5/32 hex key, and then pull free from the roller and belt tensioning stub. (See Figure 5)

9. Remove the problematic bearing from the arm using a bearing puller. Triminator recommends the Princess Auto Blind Bearing Puller Set (SKU 8309262), but any equivalent set should be sufficient to remove the bearing.

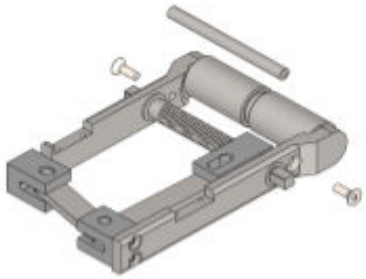


figure 4

10. Insert the replacement bearing into the arm, making sure that the bearing is inserted straight and in line with the bore.

11. Re-install the arm(s) onto the assembly by inserting the bearing over the roller and inserting the bushing over the threaded rod until everything is flush and square. If necessary, re-install the two ¼-20 screws removed in Step 8.

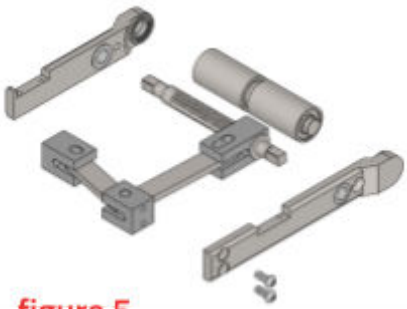


figure 5

12. Re-install the support rod using the two ¼-20 flathead screws removed in Step 7. (See Figures 6 & 7)

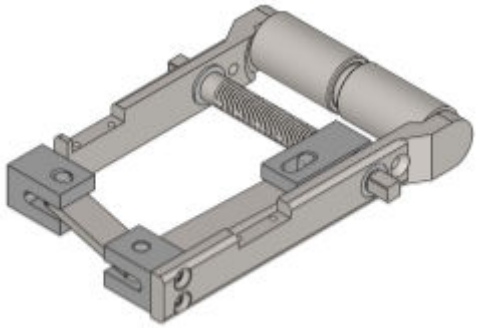


figure 6

13. Reinstall the plate across the arms and secure using the four screws removed in Step 6.
14. Slide the tensioning assembly back into the conveyor body, and secure it with the 2 screws that were removed in Step 3.
15. Finish your replacement by reinstalling the belt and side panels.

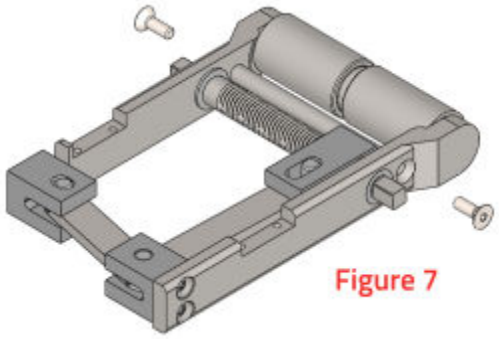


Figure 7

INFEED CONVEYOR: MOTOR SIDE

1. Remove the side flares and belt as per Steps 1 and 2 of the previous section.
2. Remove the 4 bolts securing the motor to the conveyor using a 6mm hex key, then slide the entire motor off the drive shaft and set aside (See Figure 8). Take care to set aside the motor key with the motor. The key should be easily removable from the keyway in the shaft.
3. Using a 9/64 hex key, remove the 4 bolts securing the motor assembly to the conveyor body. Set these aside in a safe place (See Figure 9).

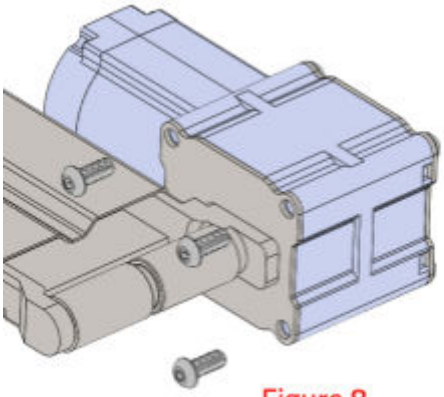


Figure 8

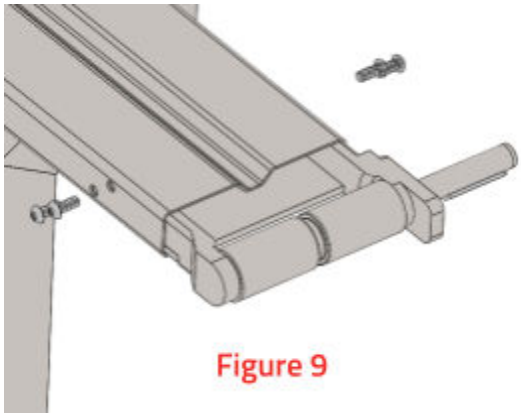


Figure 9

4. Grab the roller and slide the entire motor assembly out of the conveyor body. You may have to wiggle the assembly back and forth slightly as you pull it out.

5. Set the assembly upside down on a table or workbench.

6. Using a 5/32 hex key, remove the 4 screws securing the plate to the two side arms. (See Figure 10)

7. With the plate removed, the arms should freely separate from the assembly. Remove the arm with the problematic bearing.

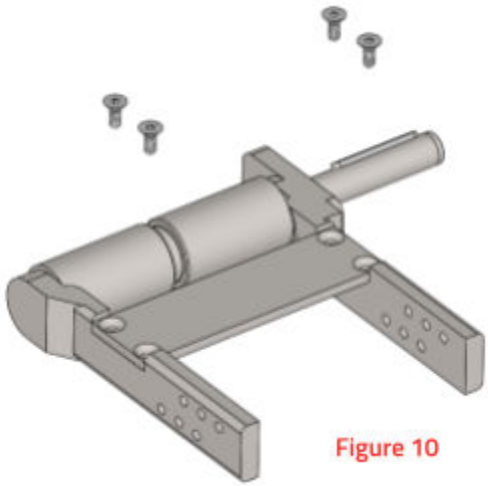


Figure 10

8. Remove the problematic bearing from the arm using a bearing puller. Triminator recommends the Princess Auto Blind Bearing Puller Set (SKU 8309262), but any equivalent set should be sufficient to remove the bearing.

9. Insert the replacement bearing into the arm, making sure that the bearing is inserted straight and in line with the bore.

10. Reinstall the plate and 4 screws removed in Step 6.

11. Slide the motor assembly back into the conveyor body, and secure it with the 4 screws that were removed in Step 3. Note that there are 3 sets of holes on the side arms. We recommend that you install the screws through the middle set of holes.

12. Re-install the motor by sliding it onto the drive shaft. Seat the key in the keyway on the shaft. Ensure that the motor is installed so that the Triminator logo is facing upward. Secure the motor to the conveyor using the screws removed in Step 2.

13. Finish your replacement by reinstalling the belt and side flares.

OUTFEED CONVEYOR: TENSIONING SIDE

1. Remove the end flare.
2. Remove the 4 bolts securing the tensioning assembly to the conveyor body using a 9/64 hex key. (See Figure 11)

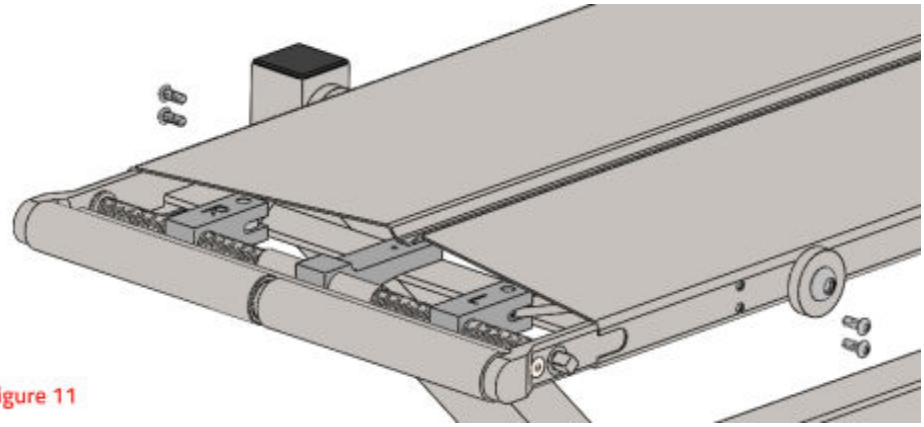


Figure 11

3. With the screws removed, grab onto the roller and slide the whole assembly right out of the conveyor.
4. Set the tensioning assembly upside down on a table or workbench.
5. Using a 5/32 hex key, remove only the screws securing the side arm with the problematic bearing to the plate. (See Figure 12)

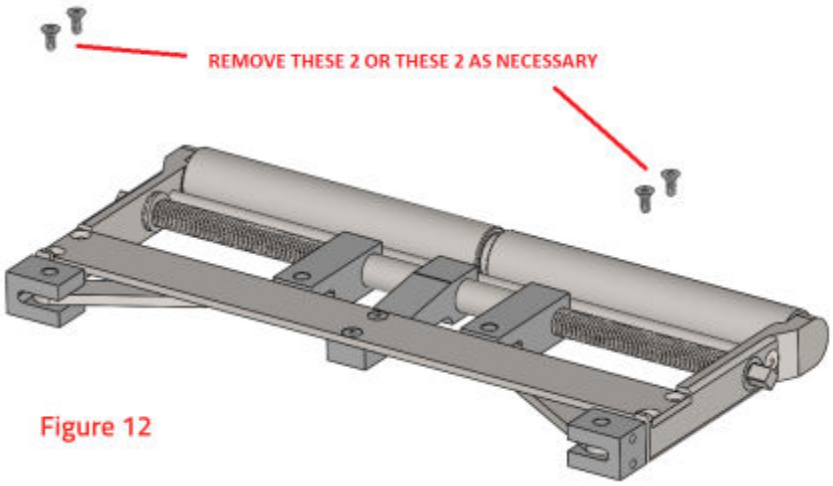


Figure 12

6. Using a 9/64 hex key, remove the flathead screw from the round bar that spans across the tensioning assembly on the side with the problematic bearing. (See Figure 13)

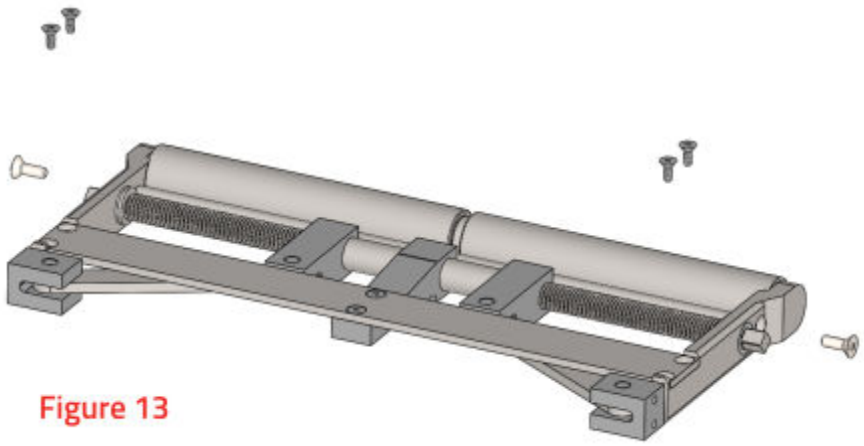


Figure 13

7. At this point, the side arm should freely separate from the assembly.

8. Remove the problematic bearing from the arm using a bearing puller. Triminator recommends the Princess Auto Blind Bearing Puller Set (SKU 8309262), but any equivalent set should be sufficient to remove the bearing.

9. Insert the replacement bearing into the arm, making sure that the bearing is inserted straight and in line with the bore.

10. Align the screw holes on the bottom of the arm with the replacement bearing with the holes on the metal plate, and re-install the 2 screws removed earlier. Ensure that the tensioning shaft is inserted through the clearance hole on the arm and that the roller is inserted into the new bearing.

11. Align the round metal bar with the screw hole on the replacement bearing arm, and re-install the screw removed in Step 6.

12. With the tensioning shaft, round bar, and roller all secured between the two arms, the tensioning assembly is ready to be re-installed into the conveyor body.

13. Ensure the screw holes on the plastic blocks are facing outward (aligned with the screw holes on the conveyor body) and slide the assembly into the opening until the screw holes are aligned. Secure with the fasteners removed in Step 2.

14. Check that the tensioning assembly is functioning properly by rotating the tensioning shaft using the conveyor tensioning tool. If the turning is smooth without hiccups, the assembly is working properly.

15. Reinstall the belt and side panels.

OUTFEED CONVEYOR: MOTOR SIDE

1. Remove the belt and side panels.

2. Remove the 4 bolts securing the motor to the conveyor using a 6mm hex key, then slide the entire motor off the drive shaft and set aside. Take care to also set aside the key with the motor. The key should be easily removable from the keyway on the shaft. (See Figure 14)

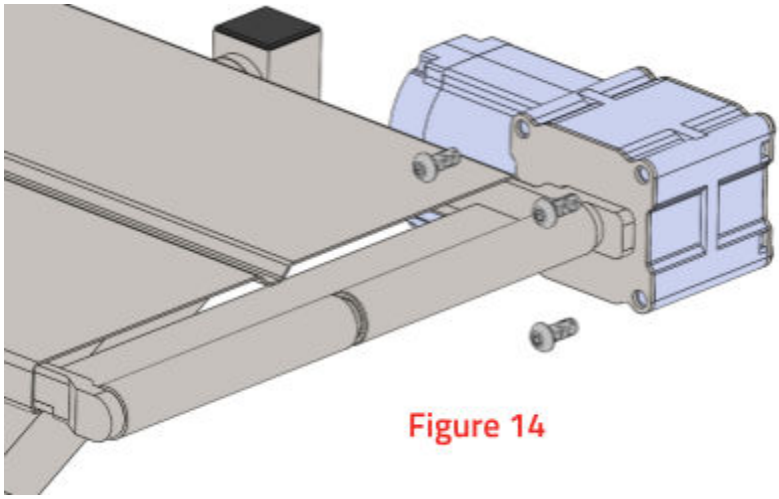


Figure 14

3. Using a 9/64 hex key, remove the 4 bolts securing the motor assembly to the conveyor body. Set these aside in a safe place. (See Figure 15)

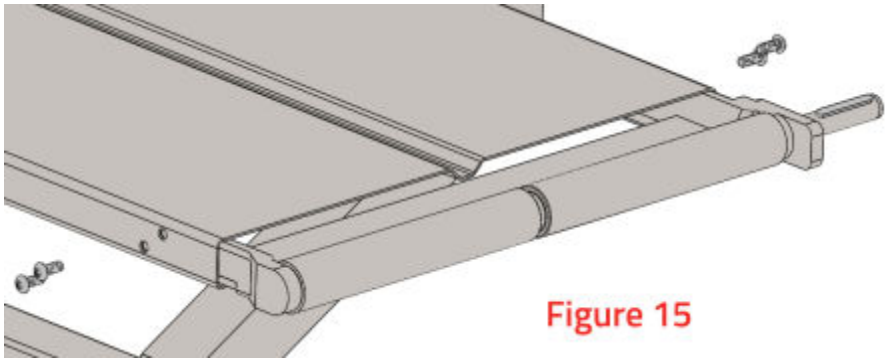


Figure 15

4. Grab the roller and slide the entire motor assembly out of the conveyor body. You may have to wiggle the assembly back and forth slightly as you pull it out.
5. Set the assembly upside down on a table or workbench.
6. Using a 5/32 hex key, remove the 4 screws securing the plate to the two side arms. (See Figure 16)

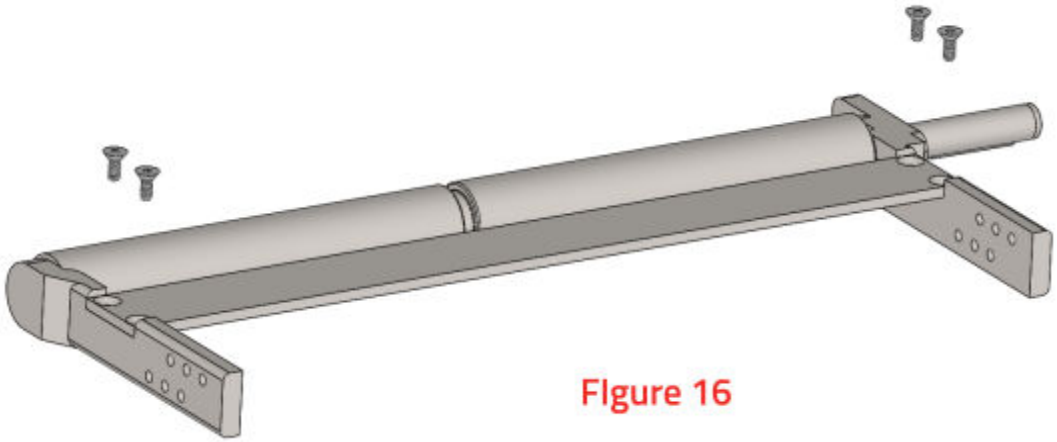


FIgure 16

7. With the plate removed, separate the side arm with the problematic bearing.
8. Remove the problematic bearing from the arm using a bearing puller. Triminator recommends the Princess Auto Blind Bearing Puller Set (SKU 8309262), but any equivalent set should be sufficient to remove the bearing.
9. Insert the replacement bearing into the arm, making sure that the bearing is inserted straight and in line with the bore.
10. Slide the arm back onto the roller, and secure the plate using the 4 screws removed in Step 6.

11. Slide the motor assembly back into the conveyor body, and secure it with the 4 screws that were removed in Step 3. Note that there are 3 sets of holes on the side arms. We recommend that you install the screws through the middle set of holes.

12. Reinstall the motor by sliding it onto the drive shaft. Place the key in the keyway on the shaft. Ensure that the motor is in the orientation as shown and that the keyway bore on the motor aligns with the key in the shaft. Secure the motor with the 4 bolts removed in Step 2.

13. Finish your replacement by reinstalling the belt and end flare.

SPECIFICATIONS

	INFEED	OUTFEED
Wet/Dry Capable	Yes	Yes
Construction	304 Stainless Steel and Delrin	304 Stainless Steel and Delrin
Belt Material	Fully-encased polyurethane	Fully-encased polyurethane
Speed Adjustments	1 - 10	1-10
Belt Length	59 IN / 150 CM	59 IN / 150 CM
Belt Width	4.6 IN / 12 CM	12 IN / 30 CM
Motor	1/10 HP	1/10 HP
Power Requirements	NA: 115 VAC, 1.5 A ITL: 230 VAC, 0.75 A	NA: 115 VAC, 1.5 A ITL: 230 VAC, 0.75 A
Tools	½" Wrench, 5/16" Allan key	½" Wrench, 5/16" Allan key
Fits through 32" door?	Yes	Yes
Length	61 IN / 155 CM	63 In / 160 CM
Height	39 IN /99 CM	36 IN / 91CM
Width	19 IN / 68 CM	21 IN / 53 CM
Weight	75 LBS / 34 KG	92 LBS / 42 KG

WARRANTY

Thank you for your purchase of the Hybrid™ Trimmer Infeed and/or Outfeed Conveyor.

The Triminator Hybrid™ Trimmer Infeed and Outfeed Conveyors are covered by our manufacturer's warranty as follows:

- No warranty on consumable parts, including blades/blade bars, tumbler, fan housing, filter bag, brush-bar, filters, trim tote gasket, die plates, rolls, bearings, and screens;
- Warranty coverage for one (1) year or 1,000 operating hours, whichever occurs first, on motors, electrical components, and the remainder of machine components.

The warranty period begins on the date the equipment is received by the customer. Any damage that occurs during shipping will be the responsibility of Triminator.

The above terms are valid if Triminator equipment is used and maintained as directed. If the equipment is modified in any way, all terms of this warranty are void. This warranty does not apply to cosmetic damage, such as scratches or general wear and tear.

Should you experience a technical problem with your equipment, please contact Eteros Technologies at the email or phone number outlined in the Service and Repairs section.