

Quantum Gantry Fryer

Model

Preliminary Owner's Manual

Manufacturing Number

Table of Contents

- Overview**
- Before Use
- In Case of Damage
- Website
- Service/Technical Assistance**
- In Case of Damage
- Equipment Information to Save
- Authorized Service Agency
- Safety Information**
- Installation
- Maintenance
- Service
- Specifications**
- Installation**
- Unpacking
- Setup
- Installing Fryer Baskets
- Operation**
- Maintenance**
- Daily Cleaning
- One Year
- Troubleshooting**
- Troubleshooting Notes
- Best Practices
- Wiring Diagram**
- Replacement Parts**
- Parts List
- Exploded Views**
- Notes**

Overview

2 This unit is intended to be used for commercial applications, for example: in kitchens of restaurants, canteens, hospitals and in commercial enterprises such as bakeries, butcheries, etc., But not for continuous mass production of food.

Before Use

3 This manual contains safety, installation, and operating procedures for the unit. Read and understand it completely before installing or operating the unit. Keep this document for reference. If the unit changes ownership, this manual must accompany it.

In Case of Damage

7 If the unit arrives damaged, file a claim with the carrier immediately. Save all packing materials when filing a claim. Freight damage claims are the responsibility of the purchaser and are not covered under warranty.

Website

11 www.antunes.com

Service/Technical Assistance

In Case of Damage

If any parts are missing or damaged, problems with the installation or operation of this product contact Antunes Customer Service immediately toll free at +1-877-392-7856.

If there are problems with the installation or operations of this product, contact Antunes Technical Service toll free at +1-877-392-7854.

Fill in the information in the next section and have it ready when calling for assistance. The serial number is on the specification sticker located on the system.

Equipment Information to Save

Purchased from:

Date of purchase:

Model number:

Serial number:

Manufacturing number:

Authorized Service Agency

Name:

Phone No:

Address:

Safety Information

Installation

- Read and understand all instructions before installing or using the unit.
- Install this unit to comply with the basic plumbing code of the Building Officials and Code Administrators, Inc. (BOCA) and the Food Service Sanitation Manual of the Food and Drug Administration (FDA).
- Install and locate the equipment only for its intended use as described in this manual.

WARNING

ELECTRICAL SHOCK HAZARD. **Failure to follow the instructions in this manual could result in serious injury or death.**

Do not modify the power supply cord plug. If it does not fit the outlet, have a proper outlet installed by a qualified electrician.

Electrical ground is required on this appliance.

Check with a qualified electrician if you are unsure if the appliance is properly grounded.

Do NOT use an extension cord with this product.

The unit should be grounded according to local electrical codes to prevent the possibility of electrical shock. It requires a grounded receptacle with separate electrical lines, protected by fuses or circuit breaker of the proper rating.

NEVER unplug the power cord while the unit is running. Use the proper shutdown procedure before unplugging the power cord.

Operation

- The unit is furnished with a properly grounded cord connector. Do not attempt to defeat the grounded connector.
- Do not operate the unit if it has been damaged or dropped, if it has a damaged cord or plug, or if it is not working properly.
- Do not block or cover any openings on the equipment.
- Do not immerse the cord, unit, or plug in water.
- Keep the cord away from heated surfaces.
- Do not allow the cord to hang over the edge of a table or counter.
- This appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge unless they have been given supervision or instruction.
- Children being supervised are not to play with the appliance.
- Bread may burn. Therefore toasters must not be used near or below curtains or other combustible walls and materials. Failure to maintain safe operating distances may cause discoloration or combustion.

Maintenance

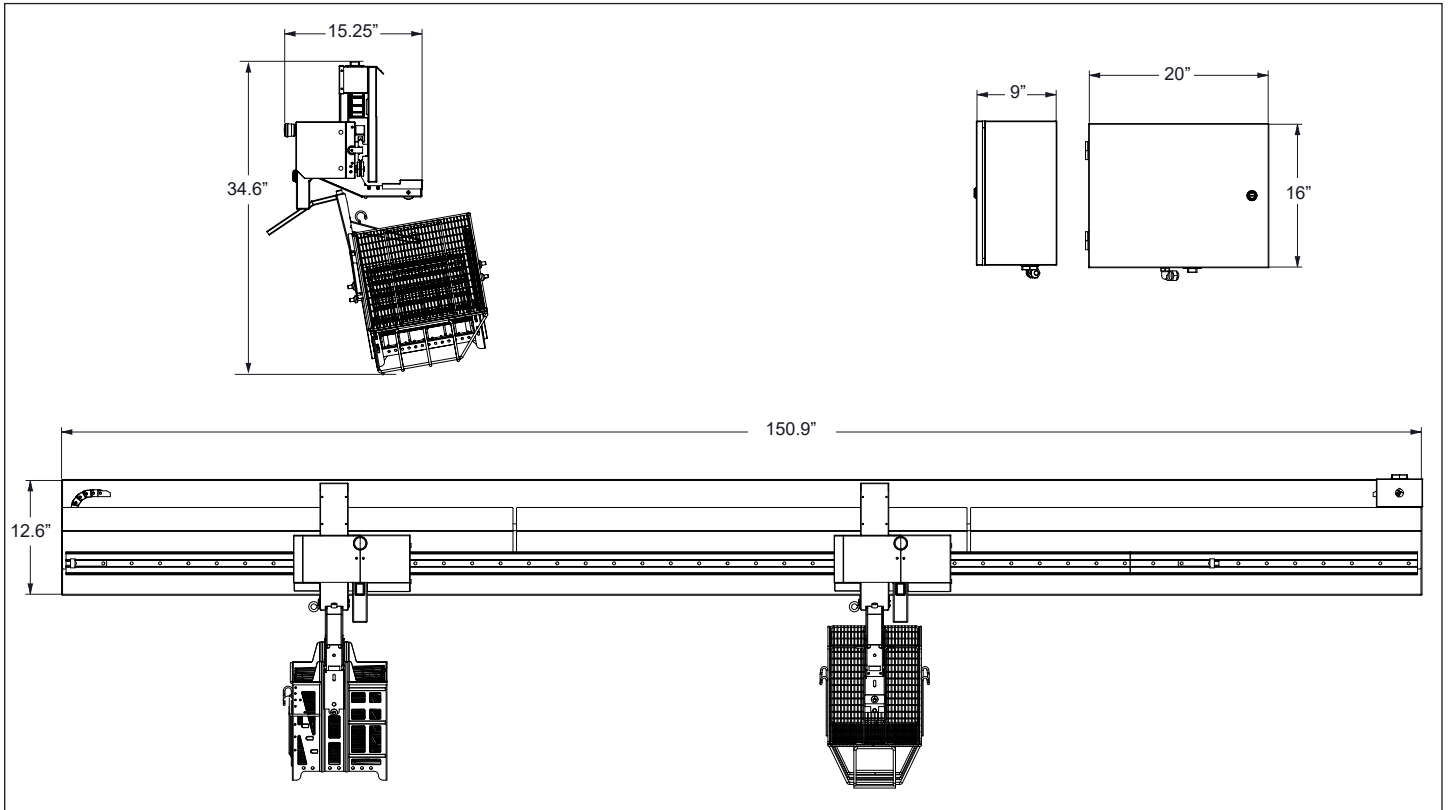
- Do not use abrasive materials; they can damage the unit's stainless steel finish.
- Do not use corrosive chemicals in this equipment.
- Chlorides or phosphates in cleaning agents (e.g., bleach, sanitizers, degreasers, and detergents) can permanently damage stainless steel equipment. The damage is usually in the form of discoloration, dulling of the metal surface finish, pits, voids, holes, or cracks. This damage is permanent and is not covered by warranty.
- Always use a soft, damp cloth for cleaning. Rinse with clear water and wipe dry. When required, always rub in the direction of metal polish lines.
- Routine cleaning should be performed daily with soap and water.
- Rub off finger marks and smears using soap and water.
- Do not clean unit or components in a dishwasher unless specifically specified in the cleaning instructions.
- Do not clean the unit with a water jet or steam cleaner.

Service

- Inspection, testing, and repair of electrical equipment must be performed only by qualified service personnel.
- To avoid possible personal injury and/or damage to the unit, all inspections, tests, and repair of electrical equipment should be performed by qualified personnel ONLY. Contact Antunes Technical Service for adjustment or repair.
- Turn the power off, unplug the power cord, and allow unit to cool to room temperature before performing any service or maintenance.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or a similarly qualified person in order to avoid an electrical hazard.
- Cleaning and user maintenance shall not be made by children without supervision.

Specifications

Dimensions



Electrical Ratings

Model & Mfg. No.	Volts	Watts	Amp	Hertz
GLS-151	120	2280	19	
GLS-191	120	2280	19	

Electrical Cord & Plug Configurations

Model & Mfg. No.	Description	Configuration
GLS-151	NEMA 5-20 90 Degrees	
GLS-191	NEMA 5-20 90 Degrees	

Installation

Unpacking

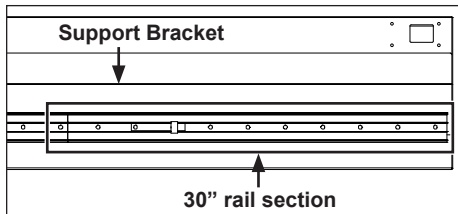
1. Remove unit and all packing materials from the shipping carton. If any parts are missing or damaged, contact Antunes Customer Service IMMEDIATELY at +1-877-392-7856 (toll free).
2. Remove the information packet.
3. Remove all packing materials and protective coverings.
4. Wipe all surfaces of the unit with a hot damp cloth. Do NOT use a dripping wet cloth. Wring it out before use.
5. Assemble the unit.

Setup

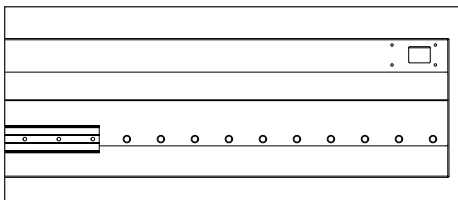
The following instructions are to aid in the installation of the Quantum Gantry Fryer motors, motor cables, and the mounting electrical cabinet.

NOTE: Antunes does not supply the support bracket that is needed to mount the Gantry System onto the hood.

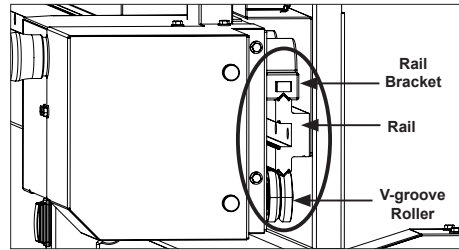
6. Locate the two sections of railing; one section is 118 inches in length and one section is 30 inches in length. Locate the 30 inch section of rail as shown below.



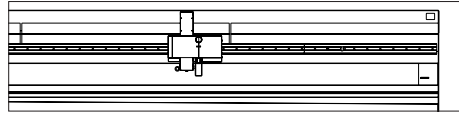
7. Use a Phillips head screwdriver to remove the 10 screws that hold the 30 inch section of rail onto the mounted unit. Place the rail and screws safely aside.



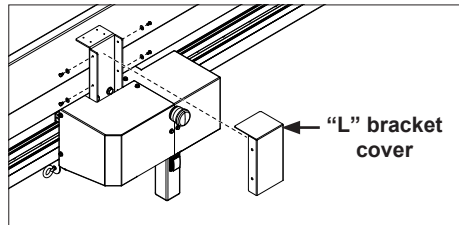
8. Lift and position one motor at a time at the open end of the still mounted rail. Align the rail bracket mounted to the motor box with the rail. Slide motor box onto the rail. Repeat this step with the second motor.



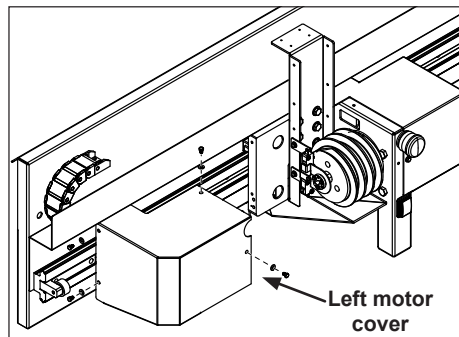
9. Reattach the 30 inch rail with the 10 screws previously removed.



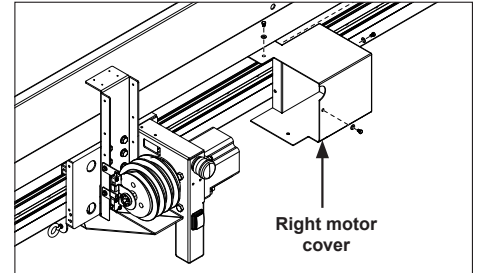
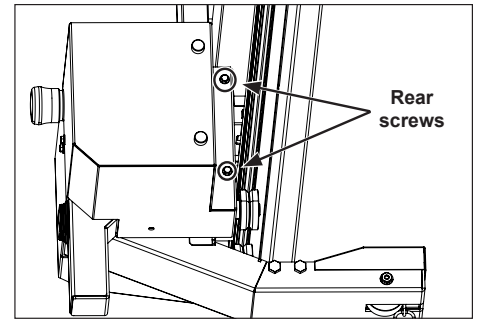
10. The motors are now mounted to the unit. Slide the left most motor down towards the opposite end of the unit.
11. Locate the "L" bracket cover at the top of the motor box. Use a Phillips head screwdriver to remove the two screws that hold the cover on. Set cover and screws aside.



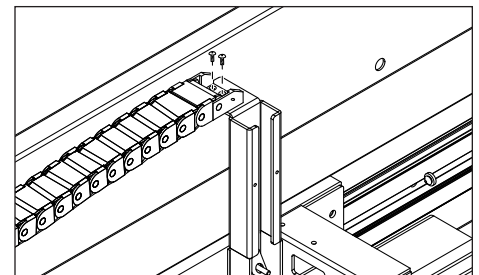
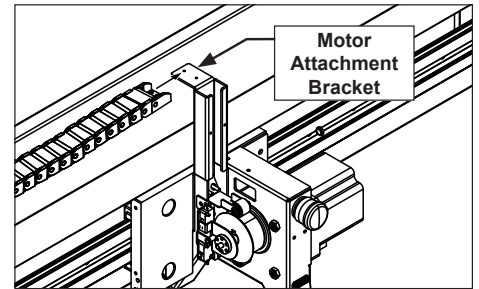
12. Locate the left cover of the motor. Use a 1/4" wrench to remove the four hex head screws that hold the cover. Remove the cover and set aside with screws.



13. Locate the right cover of the motor. Use a 1/4" wrench to remove the single hex head screw at the top of the cover and the single hex head screw on the front of the cover. Locate and remove the two side screws nested behind the motor. Remove the cover and set aside with screws.

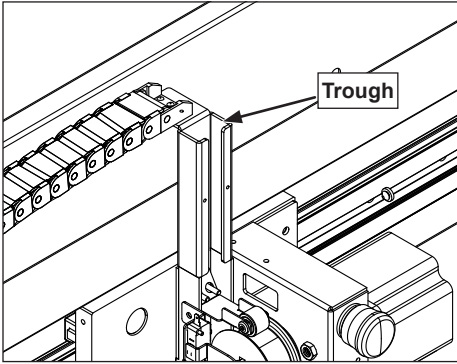


14. Bring the free end of the left energy chain up to the left motor attachment bracket. Align the screw holes on the energy chain with the screw holes on the motor attachment bracket. Insert a screw into both holes on the energy chain onto the left motor and secure with an acorn nut. Repeat this step with the right motor and energy chain.

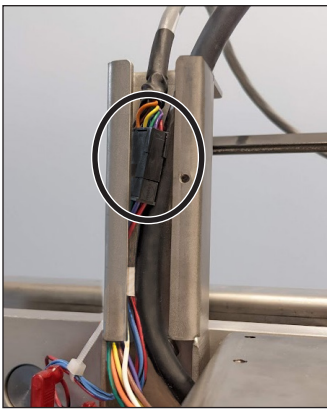


15. Locate the motor power cable coming from the chain assembly. There are 2

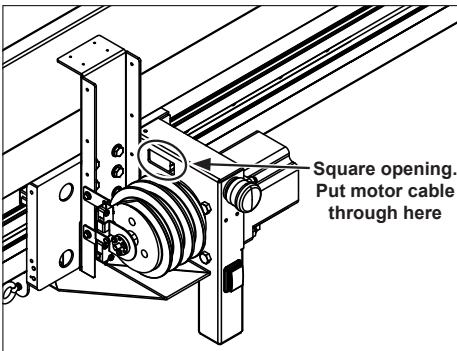
cable connectors within the motor box, one in the trough and one under the motor (Cables not depicted below for clarity).



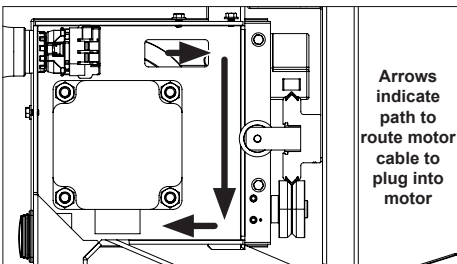
16. Guide the grey cable into the trough. Connect the grey cable to the rainbow cable connector within the trough.



17. Guide the black cable down through the trough and into the square opening.



18. Maneuver the cable down and around the right side of the motor.



19. Plug in the connector to the underside of the motor.



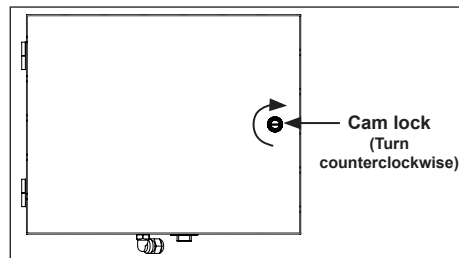
20. Reattach the left cover and secure with screws.

21. Reattach the right cover and secure with screws.

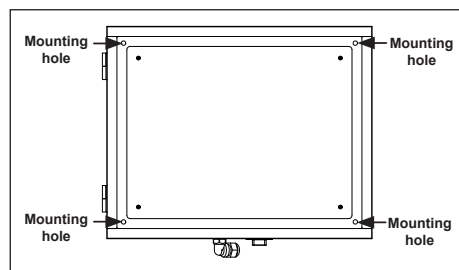
22. Reattach the "L" cover and secure with screws.

23. Repeat steps 6-15 for the second motor.

24. Locate the Electrical Cabinet. Place a flat head screwdriver into the slot of the cabinet cam lock. Turn the screwdriver counterclockwise to open.



25. Locate the mounting holes in each corner of the Cabinet. Use the supplied mounting screws to mount the Cabinet in the location pre-determined by the hood manufacturer.



26. Connect the power cord from the bottom of the electrical cabinet to the top of the mounted electrical box.

27. Installation is now complete.

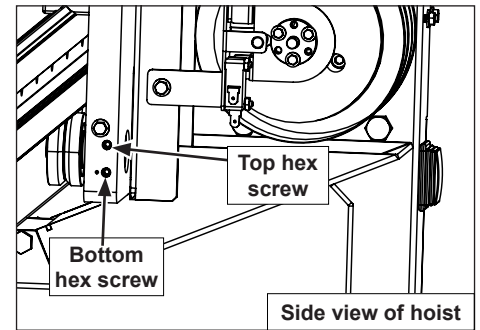
Installing Fryer Basket Handle

1. Locate the basket handle. Place handle hook into hoist eyelet (Figure 1).
2. Clip the hoist chain to the eyelet at the end of the handle.
3. The basket hoist is ready for use.

Adjusting Motor Rollers

The motors are mounted onto the unit with V-groove rollers. These rollers can be adjusted by loosening or tightening hex screws. This allows the speed at which the motors move along the railing to be increased or decreased.

1. Locate the motor covers and the screws that secure the covers to motor.
2. Use a 1/4" wrench to remove the four cover screws from the left cover. Remove cover. Remove the four screws from the right cover. Remove cover.
3. Locate the two sets of inset hex screws on either side of the motor mount.

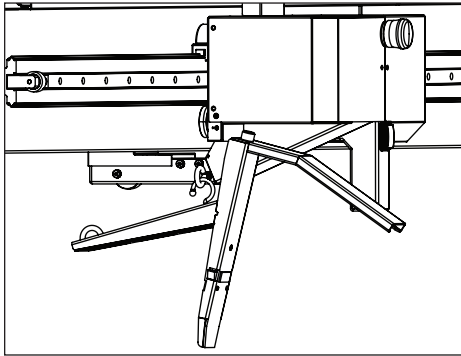


4. To decrease speed of the motor movement along the rail, use an allen wrench to turn the top hex screw counterclockwise and the bottom hex screw clockwise.
5. To increase speed of the motor movement along the rail, use an allen wrench to turn the top hex screw clockwise and the bottom hex screw counterclockwise.
6. Use the handle of the hoist to move the hoist and test the speed on the rails. Adjust each set of hex screws as needed to reach desired speed.
7. Replace and secure both motor covers.

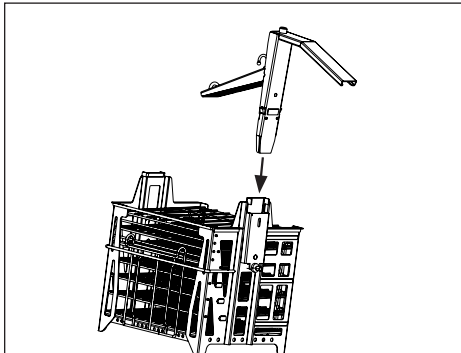
Operation

The fryer basket is designed to be attached and detached regularly from the basket hoist. When not in use, the basket should hang from the side of the fryer to allow the chicken breeder to safely load ready-to-fry chicken into the basket. Once chicken is loaded and ready to cook, follow the steps below.

1. Grasp the hoist handle and move the hoist over the basket hanging from the fryer.
2. Locate the basket handle (Figure 1). The stow hook located on the upper portion of the handle arm should be attached to the hoist eyelet. This is referred to as the stow position.



3. Remove the basket handle from the stow position.
4. Insert the handle into the basket scabbard (Figure 1). Lift the basket off the side of the fryer and lower basket into fryer.



5. Push the handle release button to release the handle from the basket. Pull the handle out of the basket and hang in the stow position on the hoist.

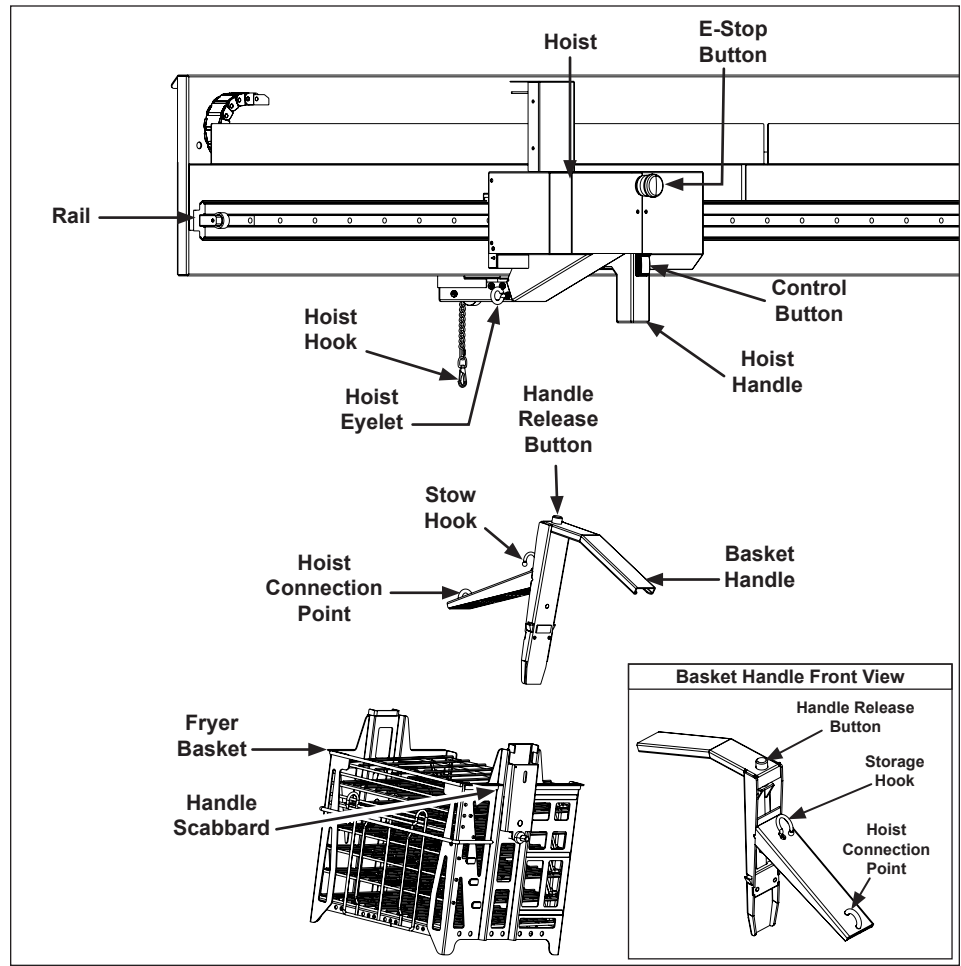
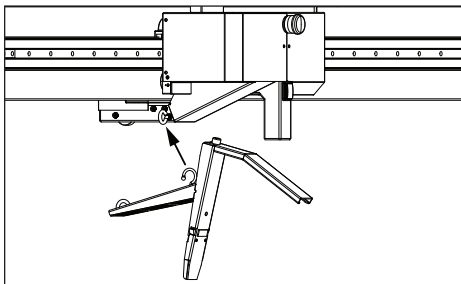


Figure 1. Quantum Gantry Components

6. Grasp the hoist handle and move the hoist aside enough to close the fryer lid.
7. Close the fryer lid, screw the lid shut, and begin the frying process.
8. Once frying is complete, open the fryer lid.
9. Move the hoist into position over the basket in the fryer. Remove basket handle from the stow position. Place handle into basket scabbard until handle locks into place.
10. Press the button upwards on the hoist to lift the basket from the fryer.
11. Allow basket to hang for 10 seconds over the fryer to allow any excess oil to drip back into the fryer.
12. With the basket lifted, grasp the hoist handle and slowly move the basket and hoist to the chicken transfer station.
13. Press down on the hoist button to lower the basket onto the chicken transfer station.
14. Allow enough slack in the hoist chain to rotate the opening side of the basket to face the chicken transfer station and empty the chicken.
15. Press upward on the hoist button to lift the basket up. Grasp the hoist handle and move the hoist and basket back over the fryer.
16. Lower the basket so that the side of the basket hooks onto the side of the fryer opening. Press the handle release button to release the basket.
17. Place handle into stow position and move hoist aside.

NOTE: Do not lift basket higher than approximately 6-8 inches above the fryer. Doing so may result in oil splashing which may cause bodily harm.

NOTE: Ensure the hoist has been moved aside from fryer to prevent head collision with hoist.

Maintenance

⚠ WARNING

Allow the unit to cool to room temperature before performing any service or maintenance.

⚠ CAUTION

Chlorides or phosphates in cleaning agents (e.g., bleach, sanitizers, degreasers, or detergents) can cause permanent damage to stainless steel equipment. The damage is usually in the form of discoloration, dulling of metal surface finish, pits, voids, holes, or cracks. This damage is permanent and is not covered by warranty. Follow these tips for maintenance of stainless steel equipment:

- Only use approved cleansers.
- Finger marks and smears should be removed using soap and water.
- Do NOT wash any components of the unit in a dishwasher. Hand wash ONLY in a three-compartment sink.

Daily Cleaning

1. Visually inspect the unit for damage to the exterior of the hoist, bent handles and arms, or latches.
2. Remove any residual grease from the basket handle using an approved degreaser and clean towel.
3. Wash fryer baskets as recommended by manufacturer.

One Year

1. Check the hoist chain for wear and tear, bends, or any damage.

Troubleshooting

Problem	Possible Cause	Corrective Action

Wiring Diagram

Replacement Parts

Parts List

(See Exploded Views for more information)

NOTICE

Use only genuine Antunes replacement parts in this unit. Use of parts other than those supplied by the manufacturer will void the warranty.

Item No.	Part #	Description	Qty.
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* Indicates that these products must be purchased in a package of 10.

Exploded Views

Exploded View #1

Exploded Views

Exploded View #2

Limited Warranty

Equipment manufactured by Antunes has been constructed of the finest materials available and manufactured to high quality standards. These units are warranted to be free from electrical and mechanical defects for a period of one (1) year from date of purchase under normal use and service, and when installed in accordance with manufacturer's recommendations. To insure continued operation of the units, follow the maintenance procedures outlined in the Owner's Manual. During the first 12 months, electromechanical parts, non-overtime labor, and travel expenses up to 2 hours (100 miles/160 km), round trip from the nearest Authorized Service Center are covered.

1. This warranty does not cover cost of installation, defects caused by improper storage or handling prior to placing of the Equipment. This warranty does not cover overtime charges or work done by unauthorized service agencies or personnel. This warranty does not cover normal maintenance, calibration, or regular adjustments as specified in operating and maintenance instructions of this manual, and/or labor involved in moving adjacent objects to gain access to the equipment. This warranty does not cover consumable/wear items. This warranty does not cover damage to the Load Cell or Load Cell Assembly due to abuse, misuse, dropping of unit/shock loads or exceeding maximum weight capacity (4 lbs). This warranty does not cover water contamination problems such as foreign material in water lines or inside solenoid valves. It does not cover water pressure problems or failures resulting from improper/incorrect voltage supply. This warranty does not cover Travel Time & Mileage in excess of 2 hours (100 miles/160 km) round trip from the nearest authorized service agency.
2. Antunes reserves the right to make changes in design or add any improvements on any product. The right is always reserved to modify equipment because of factors beyond our control and government regulations. Changes to update equipment do not constitute a warranty charge.
3. If shipment is damaged in transit, the purchaser should make a claim directly upon the carrier. Careful inspection should be made of the shipment as soon as it arrives and visible damage should be noted upon the carrier's receipt. Damage should be reported to the carrier. This damage is not covered under this warranty.
4. Warranty charges do not include freight or foreign, excise, municipal or other sales or use taxes. All such freight and taxes are the responsibility of the purchaser.
5. THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, EACH OF WHICH IS HEREBY EXPRESSLY DISCLAIMED. THE REMEDIES DESCRIBED ABOVE ARE EXCLUSIVE AND IN NO EVENT SHALL ANTUNES BE LIABLE FOR SPECIAL CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR THE BREACH OR DELAY IN PERFORMANCE OF THIS WARRANTY.

The warranty does not extend to:

- Damages caused in shipment
- Installation of electrical service
- Installation, calibration, or adjustment
- Normal maintenance outlined in this manual
- Consumable parts such as egg rings, gaskets, rubber feet, labels, O-rings, light bulbs, etc.
- Malfunction resulting from improper service or maintenance
- Damage caused by improper installation, improper use, abuse, or careless handling
- Damage from moisture coming in contact with electrical components
- Damage from tampering with, removal of, or changing preset controls or safety devices
- Damage caused by parts or components not provided by Antunes



Corporate Headquarters
Carol Stream, IL, USA
Phone: +1.630.784.1000
Toll Free: +1.800.253.2991
Fax: +1.(630).784-1650

China Facility
Suzhou, China
Phone: +84.512.6841.3637
Fax: +86.512.6841.3907

India Facility
Chennai, India
Phone: +91.44.25532212
Fax: +91.44.25532415