

ANDGAR

FOOD PROCESSING EQUIPMENT



Single Pieces of Equipment



Processing Line Front-End Systems



**Expert Consulting, Assessments
& Customization**



**End-To-End Food Processing
Line Setup, New & Retrofit**



INVESTED IN YOUR SUCCESS

WWW.ANDGARFOODPROCESSING.COM



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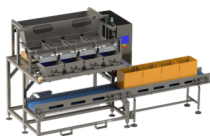
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PH. 360-366-9900 OPTION 4

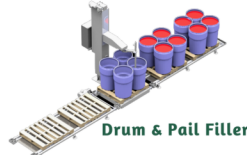
FILLING SOLUTIONS



Clamshell Filler



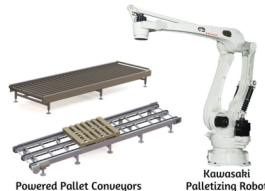
Multi-Head Box Filler



Drum & Pail Filler

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MATERIAL HANDLING SOLUTIONS



Powered Pallet Conveyors

Kawasaki Palletizing Robot

KAWASAKI ROBOTICS



Z-Conveyors

Metal Detection Conveyors

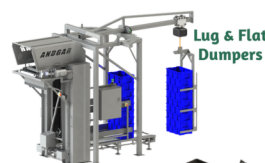


Box Conveyors

Inspection Conveyors

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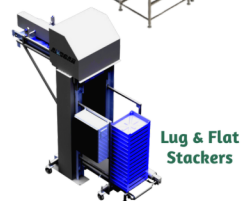
DUMPING & STACKING SOLUTIONS



Lug & Flat Dumpers



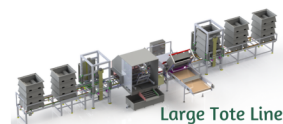
Large Tote Dumpers



Lug & Flat Stackers

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COMPLETE SYSTEMS



Large Tote Line



Custom IQF Line



Flat or Lug Recirculation System

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Automatic Tote Dumper & In-Line System

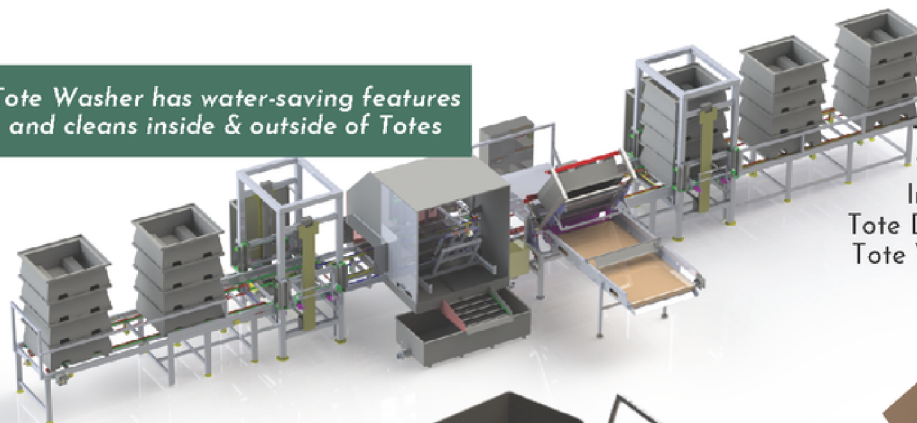
Maximize Processing Efficiency & Capacity

- ▶ CONSISTENT PRODUCT FLOW TO PROCESSING LINE
- ▶ ACCOMMODATES 1/4 TON AND 1/2 TON TOTES
- ▶ MODULAR DESIGN FOR PAIRING WITH IN-LINE RELATED SOLUTIONS
- ▶ INDIVIDUAL UNIT CUSTOMIZATION AVAILABLE

Andgar's heavy weight tote dumper and optional full in-line system is designed for heavier products in greater volumes including grapes, and nuts, and can be adapted to many other products.

Andgar's tote dumper frees up your forklift. It can unload a stack of full totes, without having to wait for dumping to finish, its now free to reload and deliver another stack of full totes to be dumped. Streamlining traditionally slower parts of your labor process, while ensuring a smooth, efficient flow of product through your facility is what Andgar does best.

Tote Washer has water-saving features and cleans inside & outside of Totes



Tote Dumper Full In-Line System

Infeed Conveyor - Tote Denester
Tote Dumper - Product Takeaway Conveyor
Tote Washer - Stacker - Outfeed Conveyor



Tote Dumpers
Side-by-Side
Concurrent Dumping



Dual Stage Tote Dumper

Pallet & Debris
Not Held Over
Product Entering
Processing

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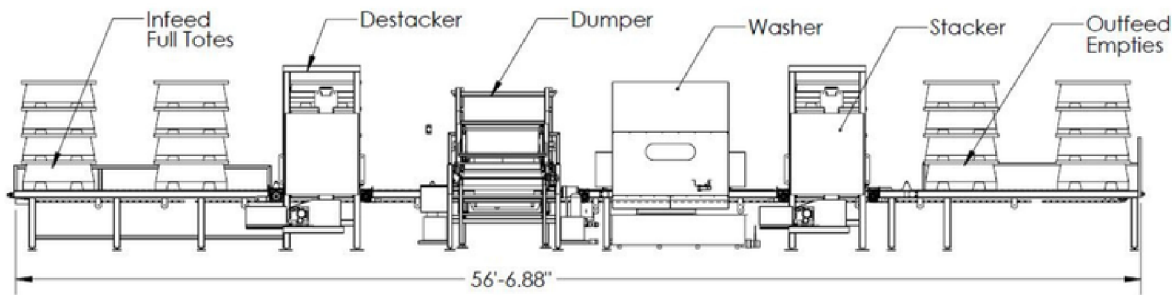
Automatic Tote Dumper & In-Line System

Includes:

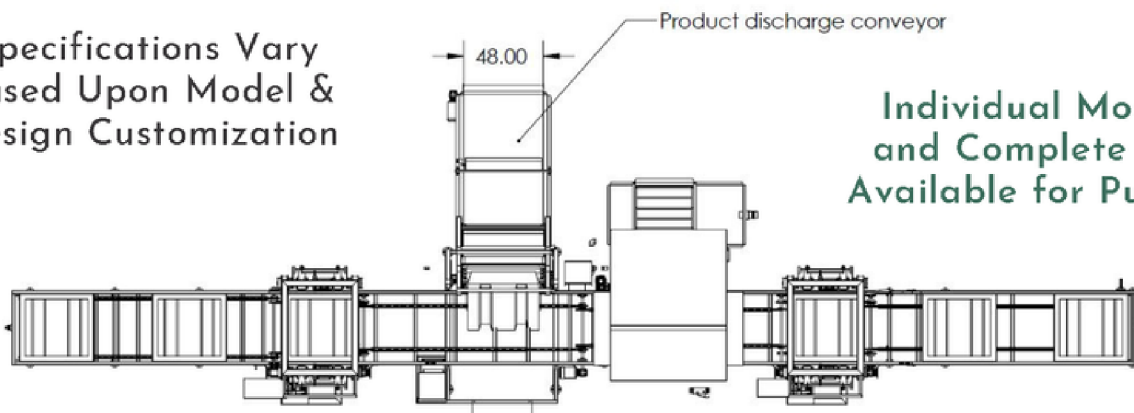
- Infeed tote staging & placement easily managed by facility forklift
- Touch screen controls for easy menu changes and data analysis
- In-feed conveyor for staging stacks of totes - stack height configurable to project solution
- Whole in-line system configuration includes Full Tote Infeed, Destacker, Dumper, Tote Washer, Stacker, and Outfeed

Custom Options

- ▶ Locking Castors for Safety & Maneuverability
- ▶ Metered Hopper for Product Flow Control
- ▶ Convenient Disassembly Option for Off-Season Storage
- ▶ Tote Washer Unit, as part of in-line system, includes water catchment for reuse, plus inner and outer tote wash nozzles for thorough cleaning.
- ▶ Optional sanitation stage available in tote washer.



Specifications Vary
Based Upon Model &
Design Customization



Individual Modules
and Complete Lines
Available for Purchase



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Automatic Flat & Lug Dumper

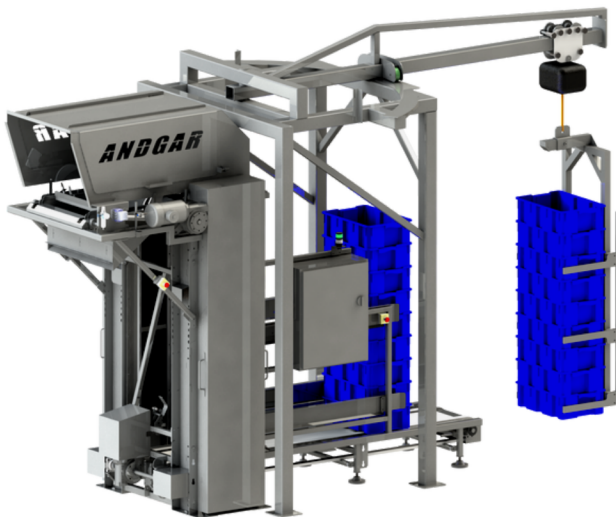
Maximize Processing Efficiency & Capacity

- ▶ **CONSISTENT PRODUCT FLOW TO PROCESSING LINE**
- ▶ **PATENTED INNOVATION**
US Pat. 10,065,813 and US Pat. 11,273,997 B2
- ▶ **WORKER SAFE AUTOMATED OPERATION**
- ▶ **CUSTOM CONFIGURATIONS AVAILABLE**

Andgar's patent-pending lug and flat dumper is designed for blueberry, raspberry, and strawberry processors, and can be adapted to many other products.

Protect the value of your crop as it makes its way to fresh pack, quick-freeze, or repack markets.

Automatically load, and dump a stack of full lugs or flats, eliminating the most physically demanding part of your labor process, while ensuring a smooth, efficient flow of product through your facility.



Lug dumping cycle time is fully adjustable-based on throughput requirements.

Automatic Flat & Lug Dumper

Includes:

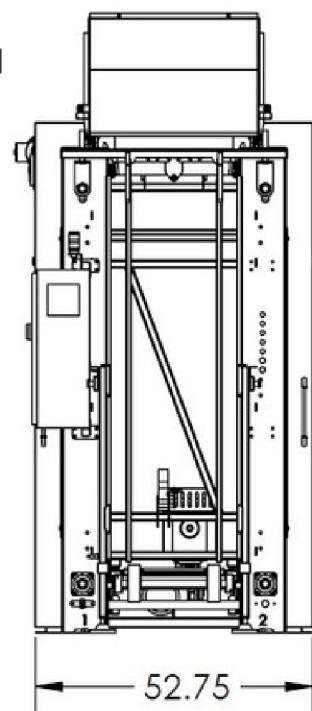
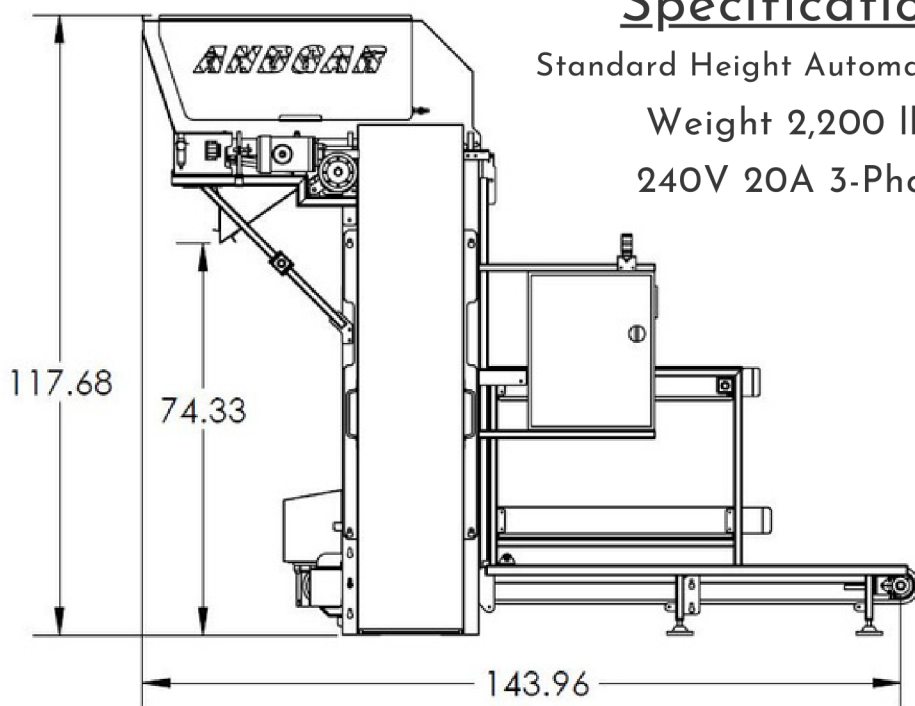
- Andgar's cradle for lifting/placing full flat/lug stacks
- Andgar's Crane with air lift for cradle management
- Touch screen controls for easy menu changes and data analysis
- Variable speed dumping arms to maintain gentle product movement
- In-feed conveyor for staging 3 stacks of flats or lugs

Custom Options

- ▶ Three Height Selections Available
- ▶ "Fresh Mode" For Gentle Handling of Fresh Product
- ▶ Locking Castors for Safety & Maneuverability
- ▶ Metered Hopper for Product Flow Control

Specifications

Standard Height Automatic Model
Weight 2,200 lbs.
240V 20A 3-Phase



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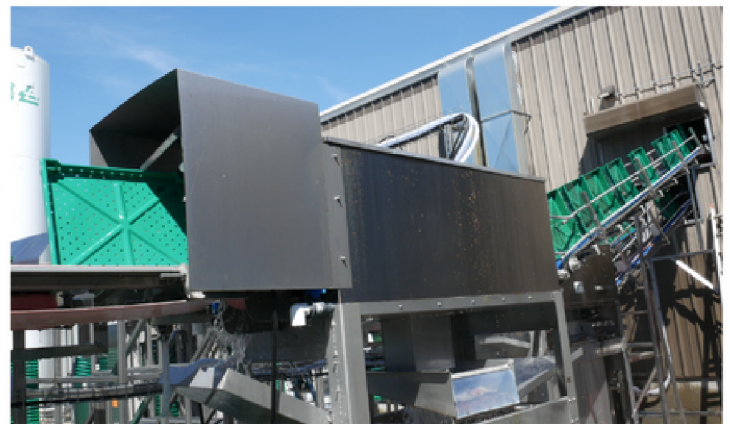
Vertical Flat & Lug Washer

Safety and Sanitation for Flat & Lug Recirculation

- ▶ EFFICIENT CLEANING OF USED LUG/FLATS IN STEADY FLOW TO DRYER, STACKER, REFILL
- ▶ HANDS-FREE SANITATION & AUTOMATION CONSISTENCY
- ▶ MANY ADJUSTMENTS & CONFIGURATIONS AVAILABLE
- ▶ EASY OPEN HOOD FOR FAST ACCESS, MAINTENANCE

Andgar's Flat & Lug Washer is a back-end efficiency must-have that increases food handling safety and operational efficiency with ease. Once your flats and lugs have delivered their product, they are sanitized quickly and thoroughly with limited human contact. Andgar designed this powerful, flexible automatic washer with your needs in mind.

This washer can keep up at the marathon pace you keep, without shut-downs or water tank changes. With up to 40 adjustable nozzles adaptable to every size and shape of lug or flat, your flat and lug cleaning needs are covered.



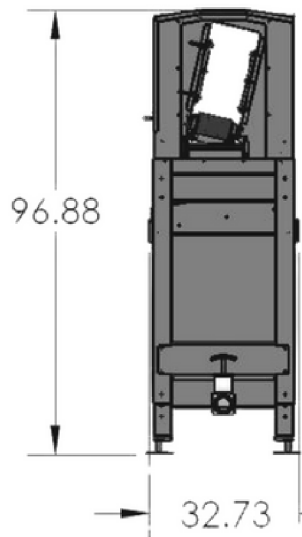
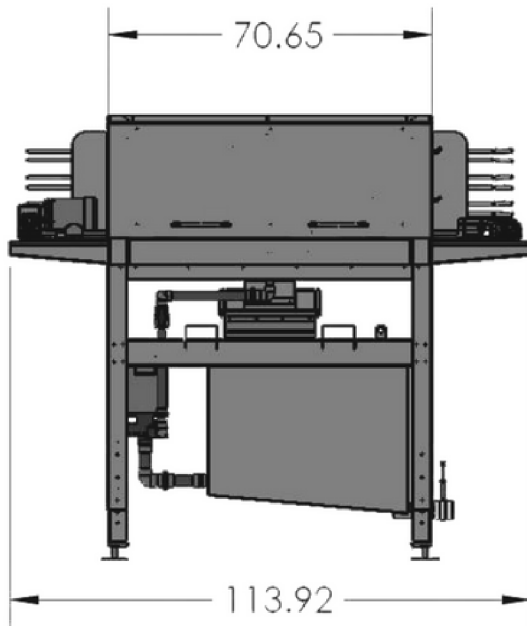
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Vertical Flat & Lug Washer

Includes:

- 40 adjustable spray nozzles with easy clean ports
- Includes a sanitation chamber
- Non-Slip rubber powered conveyors keep lugs and flats moving in any environment
- Built-in float system for automatic water level management
- 180 gallon water recirculation tank



Custom Options

- ▶ Adjustable height legs
- ▶ 10 HP Pump
- ▶ Optional Dual Screen Water Filtration System for Longer Continuous Operation
- ▶ Washdown VFD
- ▶ Automatic or manual models
- ▶ Optional dryer chamber add-on
- ▶ PLC Controls
- ▶ Left or Right hand models

Specifications

Weight 1,226 lbs.

Electrical Requirements:
10 HP Pump
0.5 HP Motor on Conveyors



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For information on compatible equipment
or this product, please call or fill out the
form on our website!

Automatic Flat & Lug Dryer

Safety and Sanitation for Flat & Lug Recirculation

- ▶ EFFICIENT CLEANING OF USED LUGS/FLATS IN STEADY FLOW FROM WASHER TO DRYER, TO STACKER, & REFILL
- ▶ PART OF HANDS-FREE COMPLETE SANITATION SYSTEM FOR AUTOMATION CONSISTENCY
- ▶ MANY ADJUSTMENTS & CONFIGURATIONS AVAILABLE
- ▶ 75-95% DRYING RATE FOR FLATS

Andgar's Automatic Flat & Lug Dryer is an important part of Andgar's back-end sanitation system that increases food handling safety and operational efficiency with ease. Once your flats and lugs have delivered their product, they are sanitized quickly and thoroughly with limited human contact through the washer, then into this dryer. Andgar designed this powerful, flexible automatic dryer with your needs in mind.

This washer/dryer combo can keep up with the marathon pace you keep. Adaptable to every size and shape of lug or flat, your back-end cleaning needs are covered.



Close up of Inner Track



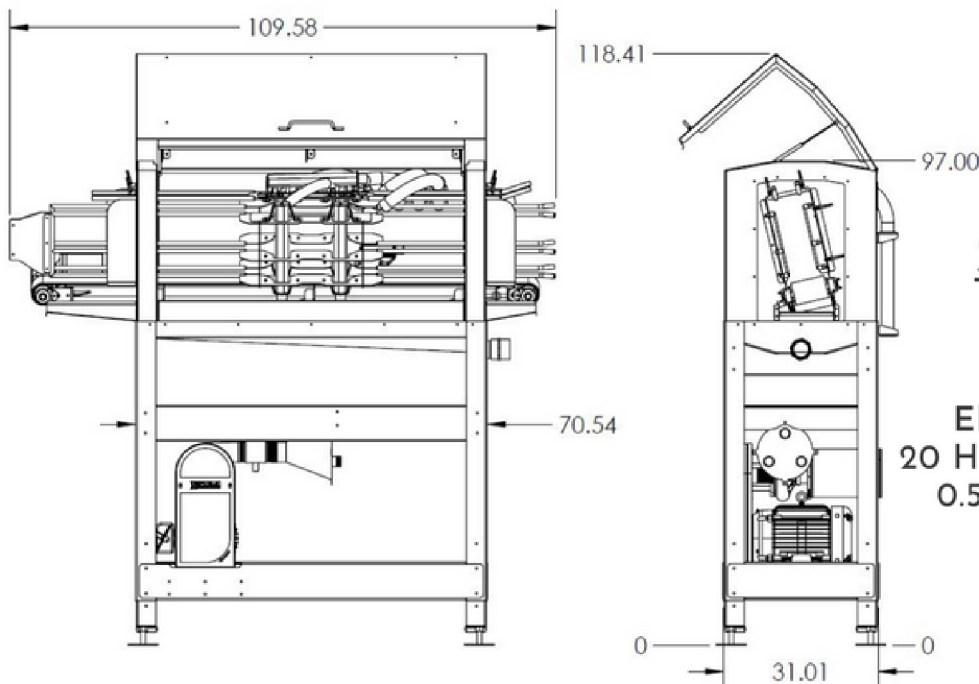
Automatic Flat & Lug Dryer

Includes:

- Up to 6 air knives for full air coverage on each passing lug/flat.
- Used water capture for eventual reuse
- Non-Slip rubber powered conveyors keep lugs and flats moving in any environment

Custom Options

- ▶ Adjustable height legs
- ▶ Custom sizing to fit your flat/lug specifications
- ▶ Left or Right hand models
- ▶ Washdown VFD - Water-Resistant Speed Controller



Specifications

Weight 989 lbs.

Electrical Requirements:
20 HP Blower with 6 Air Knives
0.5 HP Motor on Conveyor



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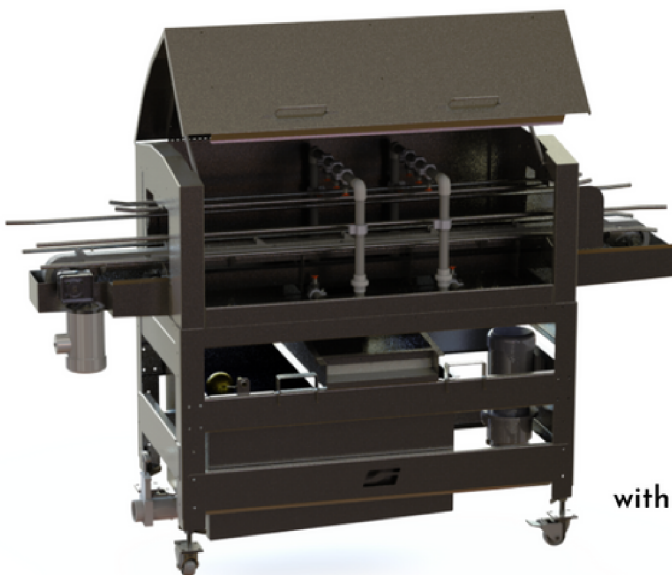
Horizontal Flat & Lug Washer

Safety and Sanitation for Flat & Lug Recirculation

- ▶ EFFICIENT CLEANING OF USED LUG/FLATS IN STEADY FLOW TO DRYER, STACKER, REFILL
- ▶ HANDS-FREE SANITATION WITH ADD-ON & AUTOMATION CONSISTENCY
- ▶ ADJUSTABLE FOR MULTIPLE FLAT & LUG SIZES
- ▶ EASY OPEN HINGED HOOD FOR FAST ACCESS, MAINTENANCE
- ▶ PUMP RECIRCULATES AND FILTERS WATER FOR WATER-SAVING RE-USE

Andgar's Horizontal Flat & Lug Washer with Optional In-Line Dryer attachment is a back-end efficiency must-have that increases food handling safety and operational efficiency with ease. Once your flats and lugs have delivered their product, they are sanitized quickly and thoroughly with limited human contact. Andgar designed this powerful, flexible automatic washer with your needs in mind.

This washer can keep up at the marathon pace you keep, without shut-downs or water tank changes. With adjustable nozzles adaptable to every size and shape of lug or flat, your flat and lug cleaning needs are covered.



Automatic Vertical Positioned
Flat & Lug Washer
with Optional In-Line Dryer Attachment

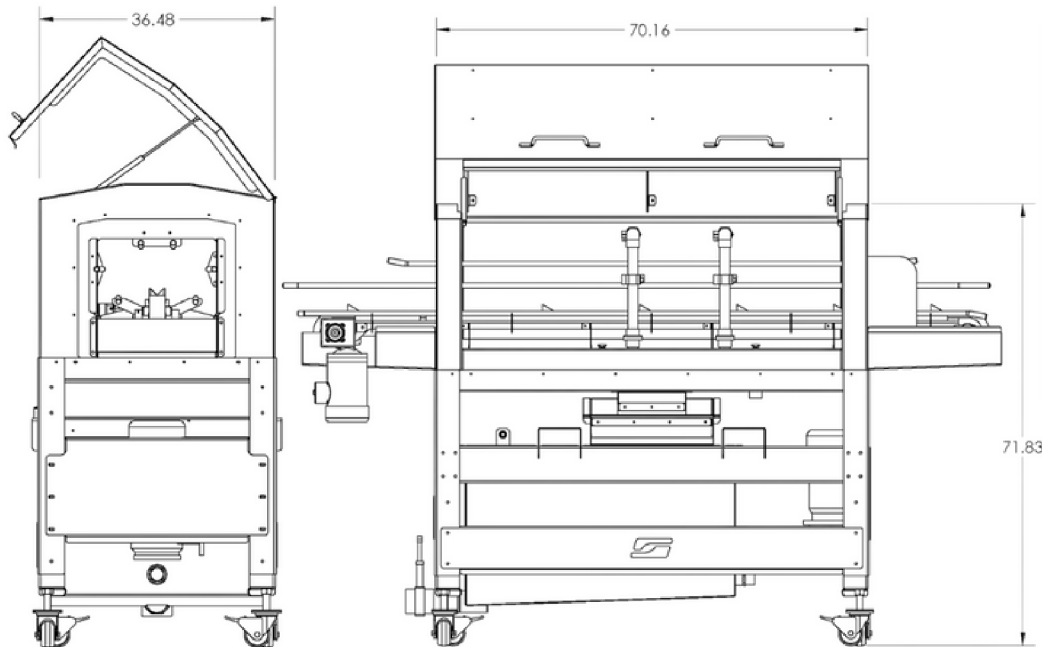
Horizontal Flat & Lug Washer

Includes:

- 14 adjustable spray nozzles with easy clean ports
- Optional add-on sanitation chamber
- Non-Slip rubber powered conveyors keep lugs and flats moving in any environment
- Built-in float system for automatic water level management
- 130 gallon water recirculation tank
- Food-grade stainless construction

Custom Options

- ▶ Optional Casters
- ▶ 5 HP Pump
- ▶ Sanitation Chamber
- ▶ Washdown VFD
- ▶ Optional dryer chamber add-on
- ▶ PLC Controls
- ▶ Optional Dual-Screen Water Filtration System for Longer Continuous Operation



Specifications

Weight 1,226 lbs.

Electrical Requirements:
5 HP Pump
0.5 HP Motor on Conveyors



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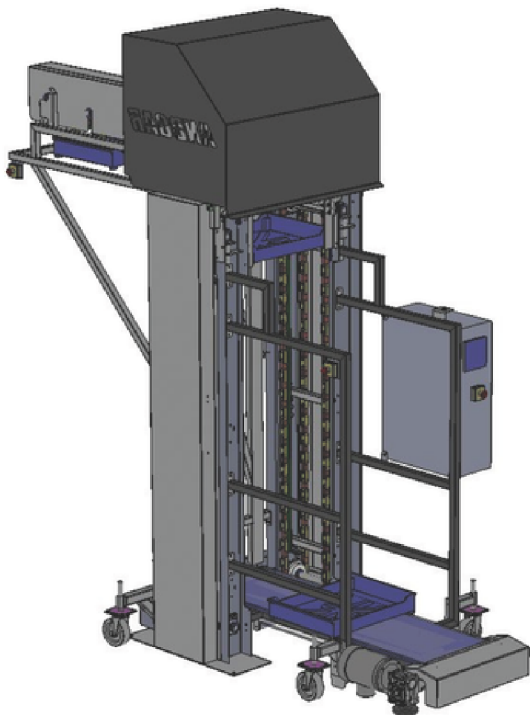
Automatic Flat Stacker

Safe, Efficient Flat & Lug Recirculation

- ▶ INCREASE WORKER SAFETY AND DECREASE INJURY LIABILITY
- ▶ EFFICIENT RETURN OF LUG/FLATS OUT OF PROCESSING FACILITY FOR FAST HARVESTER RE-USE
- ▶ INTEGRAL PART OF ANDGAR'S LUG/FLAT INTEGRATED DUMPER, WASHER, DRYER, STACKER SYSTEM
- ▶ QUALITY STAINLESS STEEL FRAME, RELIABLE MECHANISMS & PROGRAMMABLE CONTROLLER

Andgar's Automatic Flat Stacker for small fruit harvest seasons is the most efficient way to get your flats back to the fields.

Rather than having laborers hand stack individual wet flats, our stacker automatically stacks clean, dry flats (with the in-line additions of our washer/dryer models) from the top down into 22-unit stacks, which are then easily placed onto a pallet and recirculated back to harvesters. Customized stack sizes can be built on special orders to fit your facility needs. Palletizing is made even easier using our Crane and Cradle Loader, which can be added for use with the Stacker for increased efficiency.



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Automatic Flat Stacker

Includes:

- Reliability and performance confirmed with testing under live processing facility conditions.
- Simple, programmable logic controller for reliability and feedback.
- Positive stacking mechanism to prevent minor abnormalities or warping

Custom Options

- ▶ Talk to us about your specific floor plan size and stack count needs.
- ▶ This Automatic Flat Stacker is designed to work in system flow with Andgar's Dumper, Washer & Dryer equipment. Custom configurations to address specific facility challenges are available.

Specifications

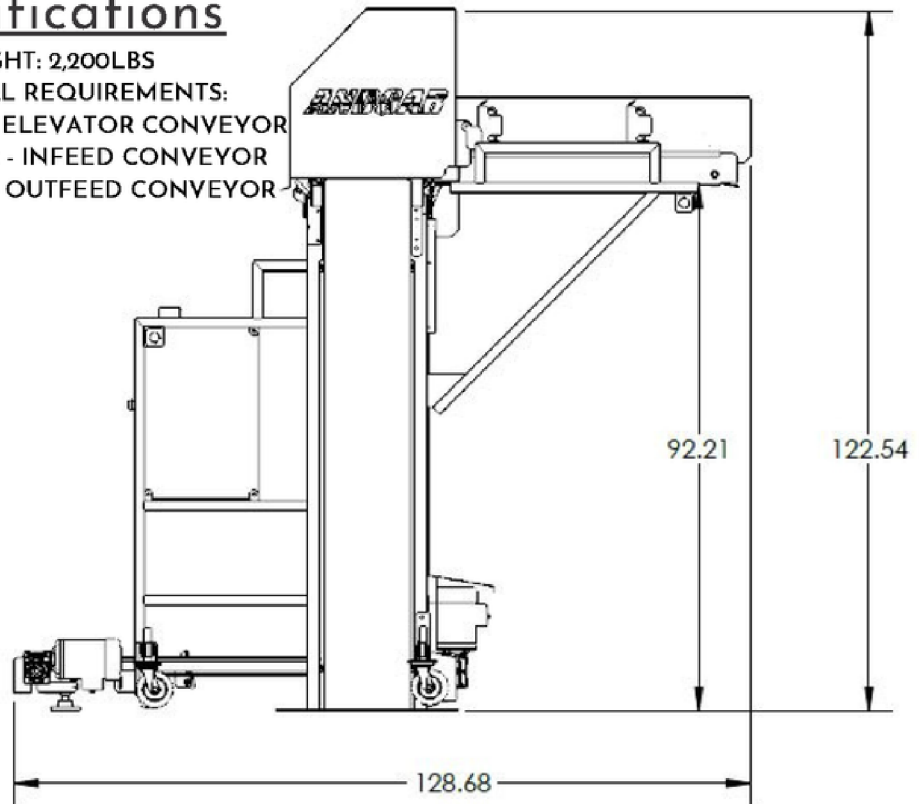
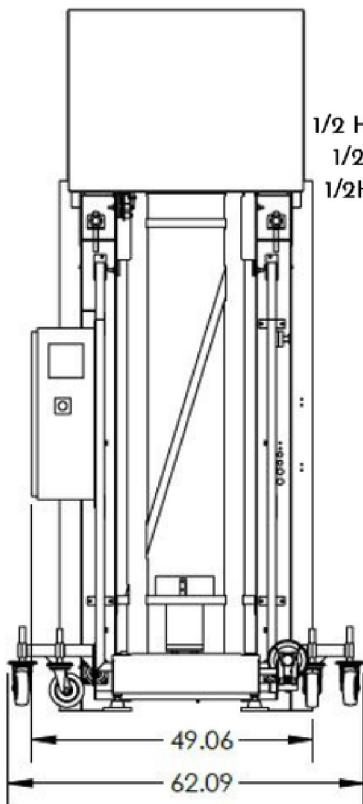
WEIGHT: 2,200LBS

ELECTRICAL REQUIREMENTS:

1/2 HP MOTOR - ELEVATOR CONVEYOR

1/2 HP MOTOR - INFEED CONVEYOR

1/2HP MOTOR - OUTFEED CONVEYOR



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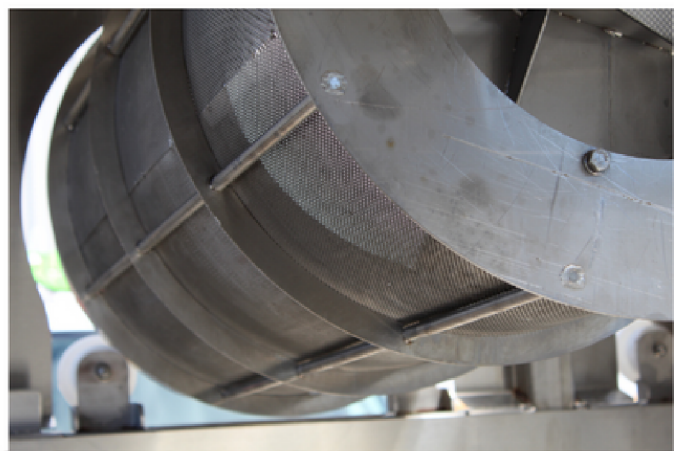
For information on compatible equipment
or this product, please call or fill out the
form on our website!

Rotary Drum Destemmer

Designed for thorough and efficient destemming of frozen blueberries

- ▶ EASILY CLEANABLE STAINLESS STEEL CONSTRUCTION
- ▶ PROVEN DESIGN TESTED FOR ACCURACY
- ▶ WORKER SAFE AUTOMATED OPERATION
- ▶ CUSTOM CONFIGURATIONS AVAILABLE

Andgar's rotary drum destemmer is highly effective at removing the stems of frozen blueberries. This piece of equipment can be located at either the outlet of an IQF tunnel or integrated as part of a repackaging operation. Configurable in multiple lengths to accommodate any size facility, and with a number of additional customization aspects, Andgar's destemmer is incredibly accurate while still gentle in its operation.



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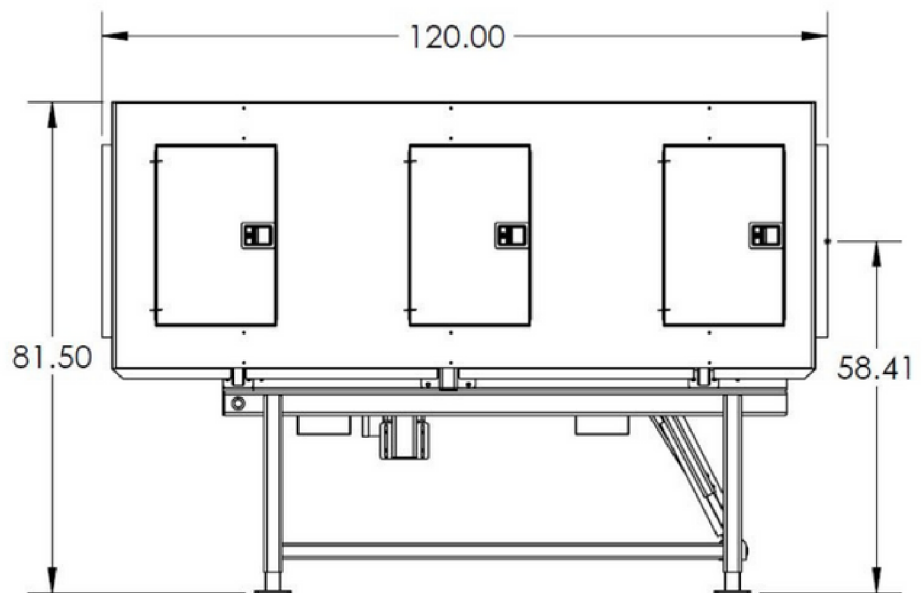
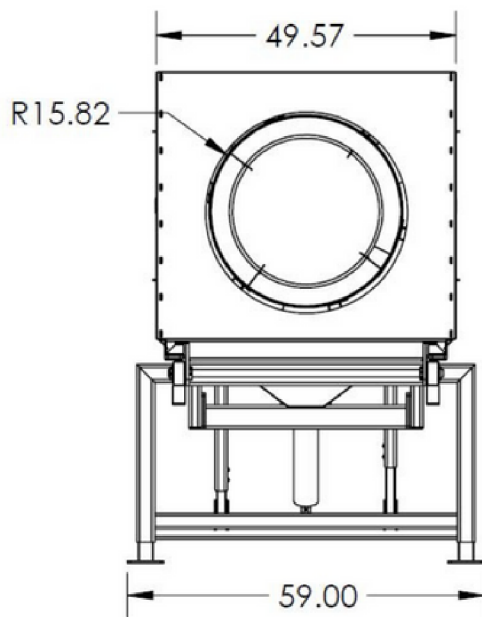
Rotary Drum Destemmer

Includes:

- Woven wire mesh screen with flights
- Easy-to-clean stainless steel construction
- Heavy duty hydraulic ram for adjustable angle
- IQF tunnel outlet attachment or as part of repack configuration.

Specifications

Weight 2,200 lbs.
240V 20A 3-Phase



Custom Options

- ▶ Customization available based upon other berry/food type needs, and adjustable sizing to fit any facility.
- ▶ VFD available for rotational speed control
- ▶ Available with Locking Castors for Safety & Maneuverability, or Adjustable Height Feet
- ▶ Optional "Cluster Buster" for thorough destemming

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Rock Trap

Maximize The Value of Your Product

- ▶ SELF-CLEANING, STAINLESS STEEL CONSTRUCTION
- ▶ PROVEN DESIGN TESTED FOR ACCURACY
- ▶ WORKER SAFE AUTOMATED OPERATION
- ▶ CUSTOM CONFIGURATIONS AVAILABLE

Andgar's self-cleaning Rock Traps provide sanitary rock removal and have an integrated, adjustable dewatering conveyor. Rock Traps can also be integrated easily with our Blower Drier to convey the clean, dry, ready-to-package or freeze product you need to maximize the value of every box and bag you fill.

Water is pumped up through the back chamber and conveys product over adjustable channels. Rocks and other debris sinks to the bottom of the channels for easy removal. Water flows out through a side discharge filter, before being recirculated. Filter sieve screen is easily accessible for maintenance cleaning.



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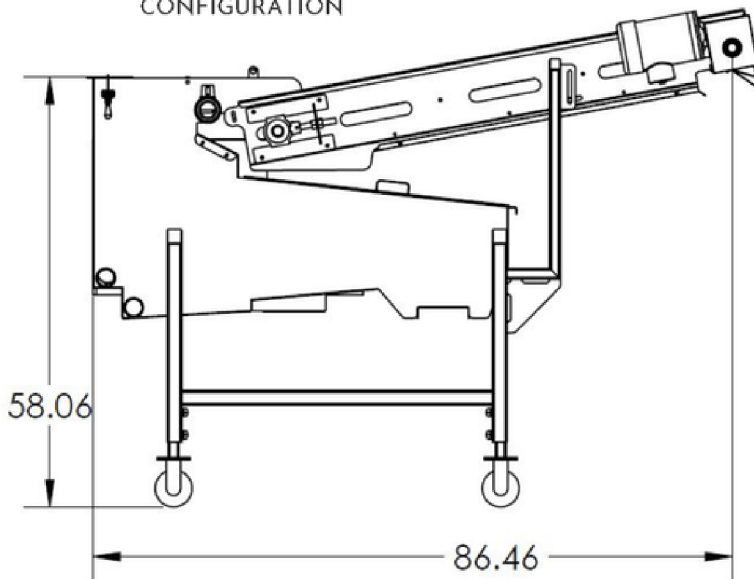
Rock Trap

Includes:

- Self-cleaning sanitary stainless steel construction
- Removable flumes for fast equipment maintenance and rock/debris disposal
- Includes integrated, adjustable dewatering conveyor
- Proven consistently clean, valueable berries or other product result

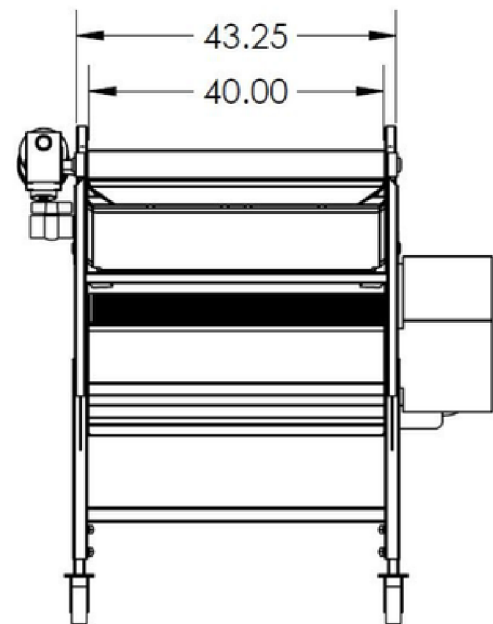
Specifications

Standard Unit Dimensions
WEIGHT and LENGTH VARIES BY
CONFIGURATION



Custom Options

- ▶ Customization available based upon other berry/food type production needs.
- ▶ Choice of Leveling Feet or Locking Castors
- ▶ Optional spray bars for fresh or chlorinated water rinse
- ▶ Dewatering conveyor with wire mesh belt can be built to specified length
- ▶ Blower Drier can be added to unit if additional dewatering is needed



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Automatic Box Filler

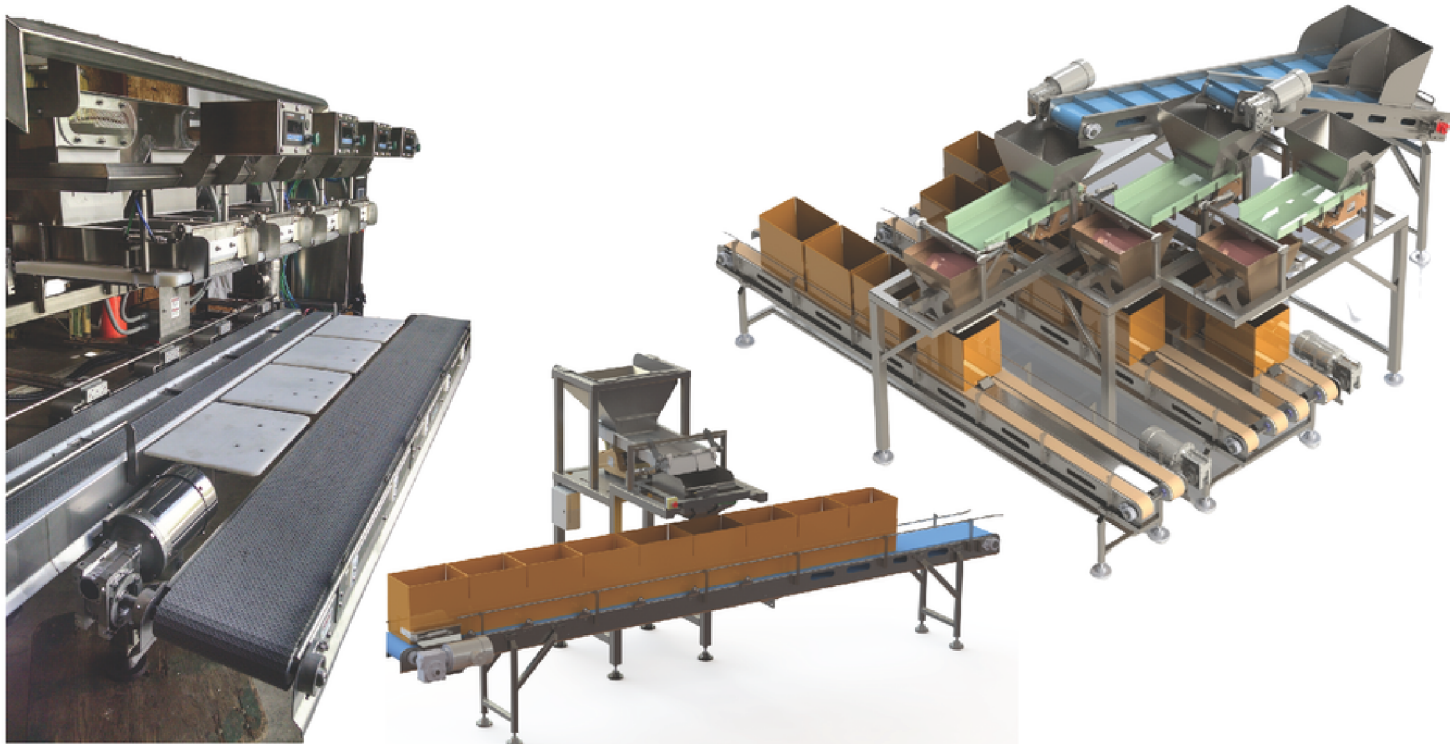
Maximize Pack-Out Efficiency & Volume

- ▶ EASY TO CLEAN, STAINLESS STEEL CONSTRUCTION
- ▶ PROVEN DESIGN TESTED FOR ACCURACY
- ▶ HANDS-FREE, WORKER SAFE AUTOMATED OPERATION
- ▶ CUSTOM CONFIGURATIONS AVAILABLE

Andgar's advanced Automatic Berry Box Fillers are the perfect compliment to your good name on the box of every berry shipment.

To meet your need for speed and accuracy, Andgar Box Fillers are custom configured with multiple heads matched to your production space and specifications, collecting real-time production data, box counts, and weights.

From 1 to 5 filler head configurations available to meet your facility space and volume needs.



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Automatic Box Filler

Includes:

- Independent, easy-access touch screen controls on each feeder head to manage fill weight & speed
- Easy-to-clean sanitary stainless steel construction
- Touch screen controls for rapid menu changes and data analysis
- Infeed conveyor of empty boxes
- Outfeed conveyor of full boxes

Custom Options

- ▶ Customization available based upon other berry/food type production needs.
- ▶ Choice of Leveling Feet or Locking Castors
- ▶ Choice of belt-style or shaker-style feeders
- ▶ Choice of Automatic or Manual Feed Operation
- ▶ Configurable with choice of 1,2,3,4, or 5 Feeder Heads

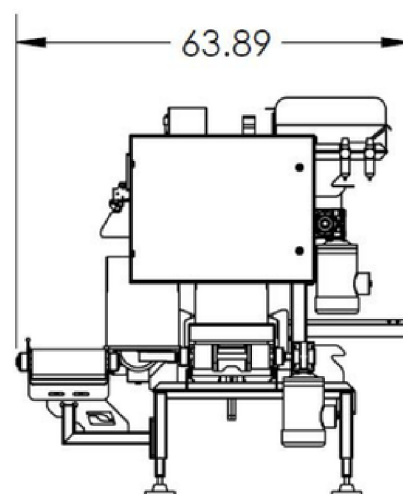
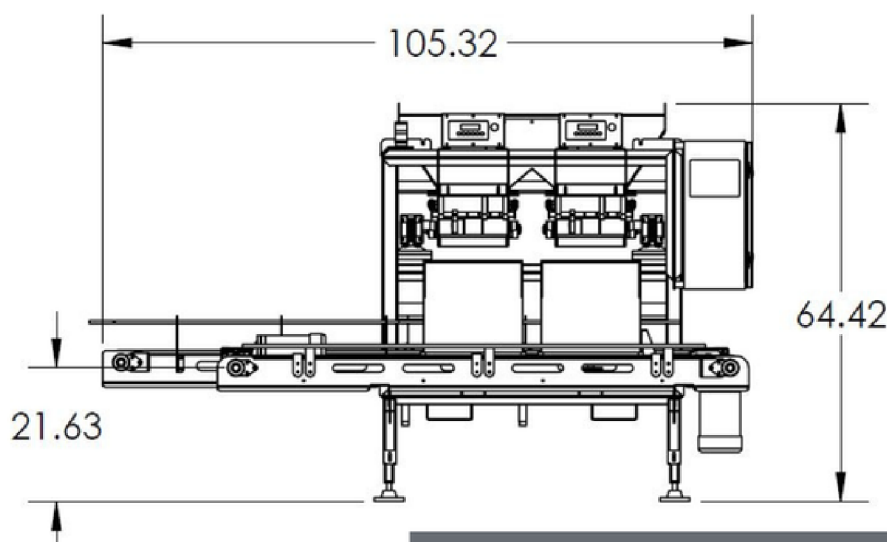
Specifications

2-Head Filler Example Dimensions
WEIGHT VARIES BY CONFIGURATION

0.5 HP Motor - Feeder Conveyors

0.5 HP Motor - Infeed Conveyor

0.5 HP Motor - Outfeed Conveyor



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Streamline your processing operation,
maximize throughput, and minimize risk



Invested in Your Success

At Andgar, your success is our success. Andgar Food Processing Equipment began in 1974 with the entrepreneurial spirit & metal fabrication know-how of Andy Mellema and Gary VanLoo.

Over the past 5 decades we have grown to a company of talented craftsman adhering to quality manufacturing standards that builds durable, scalable material handling equipment designed to automate fruit, vegetable, nut, meat, and pet food processing and packaging.

As a proud part of the agricultural community, we are fully invested in the long-term success of our customer partners. Our commitment does not end with the sale of equipment.

We offer ongoing service, support, consultation, the latest in 3D modeling, and strong manufacturing adaptability well into the future. We continue to work on innovative solutions to meet the evolving challenges farmers and food processors face each year.

Our food-grade stainless steel equipment is extremely reliable, durable, and easy to maintain allowing our customers the ability to control costs, optimize product flow, manage resources, and continue to produce a safe, quality product.

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- **ONGOING CUSTOMER SERVICE & LASTING CUSTOMER PARTNERSHIPS**
- **END TO END PROCESSING LINE OPTIMIZATION**
- **LABOR AVAILABILITY, SAFETY & CONSISTENCY IMPROVEMENTS**
- **CUSTOMIZATION & PLANNING TAILORED TO EACH FACILITY**
- **DURABLE & SCALEABLE AUTOMATED SOLUTIONS**



For information on customizable solutions, compatible equipment or any product, please call us or scan this QR code to fill out a contact form on our website!

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