

Lakewood Process Machinery's

RASPBERRY & BLACKBERRY PACKING EQUIPMENT

The highest quality fresh-pack & processing equipment since 1965



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In 1964 Lakewood Process Machinery was started with an idea to help local blueberry growers reduce labor and improve their harvest productivity and packaging techniques.

Since our humble beginnings, our innovative design capabilities coupled with our higher standard for quality and service has helped us grow to become a world leader in manufacturing agricultural processing equipment for all types of fruits, vegetables, foods, and horticulture products. Because of our commitment to our customers needs you will find LPM equipment placed in installations throughout the world.

LPM has made a commitment to provide:

- Custom designs and layouts utilizing over 40 years of professional in-house engineering.
- Standard proprietary lines for processing, sizing, sorting, weighing, washing, and packaging.
- Custom designed equipment to fit and enhance your existing production lines.
- Complete turn-key design and installation of equipment, utilizing our alliances with key suppliers.
- World-wide shipping, support, and customer service from our facility located in Holland, Michigan.
- Key regionally based support locations





IQF Raspberry Packing Line

Lakewood's IQF Raspberry Packing Line includes everything you need to remove debris, sort out the small raspberry crumbles from the main flow of the line, inspect the product, and fill into either bags or boxes through Lakewood's unique Bag & Box Filling System.

This packing line features a Lakewood No-Drop Easy Flow Air Cleaner, a Crumble Separating Shaker with the option to use different sized sizing grates for removing crumbles from the line, a Crumble Inspection Conveyor, an Elevating Inspection Conveyor complete with a crumble conveyor for box filling product pulled from the Inspection Conveyor, a second shaker system for removing any more crumbles in the line and to distribute product evenly into the Bag and Box Filling System.

To learn more about each specific piece, see the page number beside each product below.

No Drop Easy Flow Air Cleaner (page 6)

Bag & Box Filling System (page 17)

Crumble Separating Shaker (page 16)

Elevating Inspection Conveyor (page 8)

Crumble Separating Shaker (page 16)

Box Scale (page 16)

Box Scale (page 16)

ELIMINATE FLUCTUATIONS IN PRODUCT VOLUME & REMOVE THE NEED FOR MANUALLY DUMPING LUGS

LAKEWOOD Lug Dumper PROCESS MACHINERY

- All stainless steel construction
- 3 lug holding capacity
- 4 second cycle times

Remove the need for manually dumping product from lugs at the beginning of your line, eliminating fluctuations in product volume and greatly reducing strain on workers by only having to place lugs onto the lug dumper's staging area without physically dumping them.

Lugs are manually removed from a pallet and placed onto the staging area of the lug dumper (up to 3 lugs can be staged on the dumper at a time). A sensor in the metering hopper on the following piece of equipment automatically tells the lug dumper when to cycle it's next dump to ensure that there is a steady, non-fluctuating flow of product entering your line by keeping the metering hopper filled to a consistent level at all times. Once a lug has been emptied, it is automatically conveyed over to a lug washer*, eliminating the extra handling of the empty lug.



Lug Dumper Capacities

Lug Capacity	lbs per hour
20lb	Approximately 14,000 lbs per hour
25lb	Approximately 18,000 lbs per hour

Lug Dumper Specifications

Fixed Lug Load Height
31"
Lug Discharge Height
36.75" up to 55.75"
Fruit Discharge Height
37.75" up to 46.75"
** Accommodates lugs with the following dimensions
20 to 24" long and up to 16" wide from 5.25" to 7" tall

** Lug dimensions are somewhat subjective to how the handles and walls of the lug are shaped.

* Please note that some facilities may require an additional conveyor to extend from the lug dumper to their lug washer.

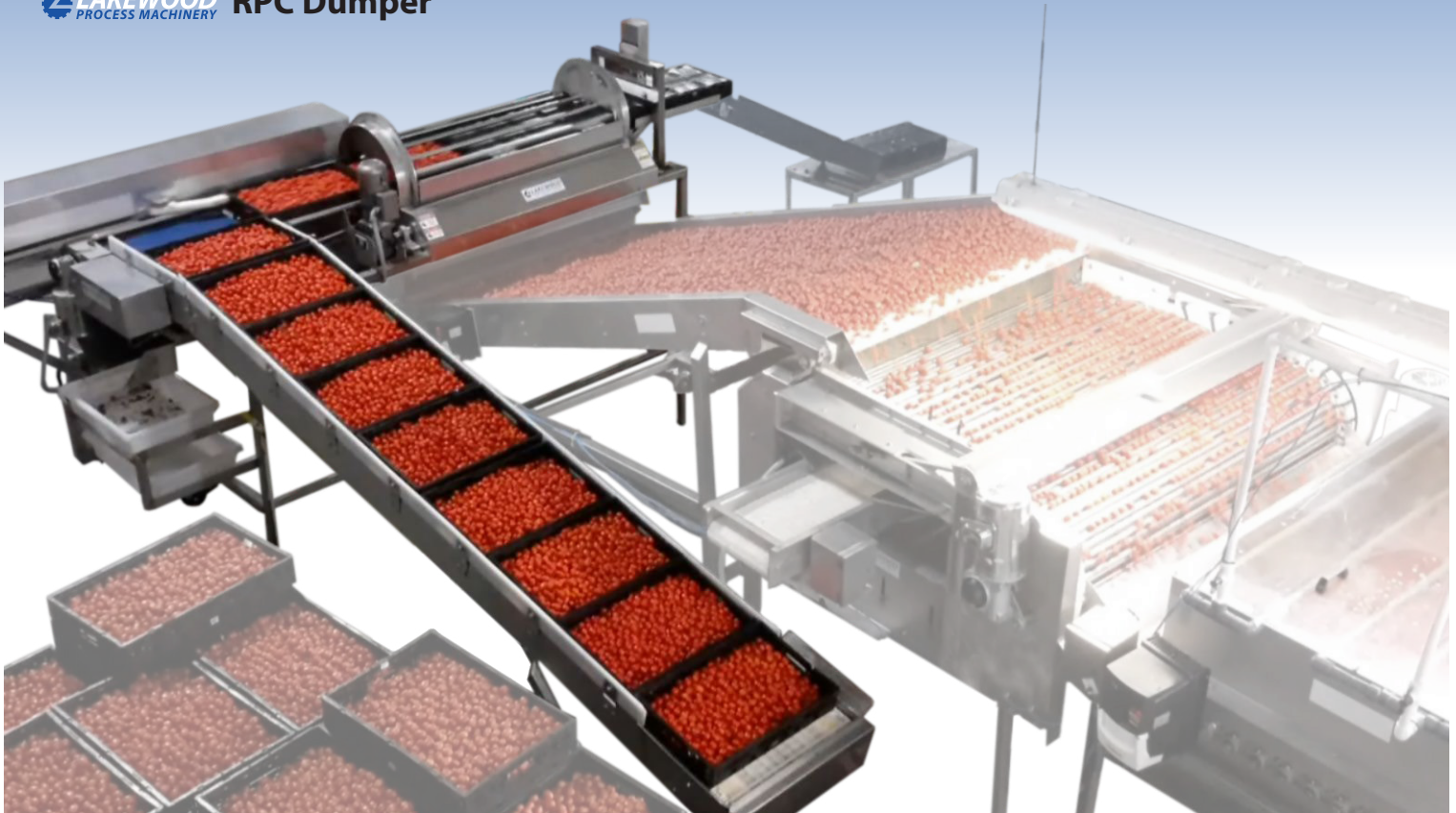
RPC DUMPER



RPC Dumpers

RPC DUMPING FOR HIGH-VOLUME PACKING FACILITIES

 **RPC Dumper**



- **Unloads 2 20lb capacity RPCs every 6 seconds**
- **Includes sensor that automatically detects, and stops unloading, when the metering hopper has reached capacity**

RPCs are staged on a conveyor in preparation for unloading. As the RPCs reach the top of the staging conveyor, an arm catches two RPCs at a time and gently forces them into the rotary chamber of the dumper. Once the RPCs are in place, the RPCs are flipped 180 degrees, allowing product to drop into a metering hopper and continue on down the packing line.

Once the RPCs are emptied, they remain upside down and are forced out of the rotary chamber by two more incoming RPCs.

RPC Dumper Capacity

Capacity
Up to 24,000 lbs per hour

RPC Dumper Options

Conveyor Options
Custom conveyor configurations available

ECONO AIR CLEANER INSPECTION COMBO

**AN EFFECTIVE AIR CLEANER
OPTION FOR THE SMALLER
GROWER**



Econo Air Cleaner Inspection Conveyor Combo

- Gentle on fruit while effectively removing leaves, dirt, and debris
- Spreads fruit evenly across the entire width of the machine making the air-cleaning process highly effective while also offering inspection personnel a clear view of the product without spreading berries out by hand
- Extremely easy to clean

The Econo Air Cleaner Inspection Conveyor Combo unit allows smaller growers (or those with a smaller budget) the option to own a highly effective, and affordable piece of Lakewood Process Machinery berry packing equipment.

Fruit is gently dumped into the infeed hopper which spreads the product evenly across the width of the infeed conveyor. As the fruit reaches the air-leg, dirt, debris, and leaves are forced away from the main flow of the product as the cleaned fruit lands gently onto the inspection conveyor section of the machine where the product is manually inspected.

The combination of Lakewood's reputable air cleaner, and our durable, stainless steel inspection conveyor is a great option for someone running a relatively low volume of fruit, who also needs an effective, and efficient cleaning machine.

Econo Air Cleaner Inspection Capacities

Working Width	Capacity
30"	+/- 1500 lbs per hour

Econo Air Cleaner Inspection Options

Infeed Conveyor Length
4'
Inspection Conveyor Length
10'
Conveyor Options
Rubber Belt

ECONO MODEL S AIR CLEANER

LAKEWOOD
PROCESS MACHINERY
AIR CLEANERS

AN EFFECTIVE AIR CLEANER OPTION FOR THE SMALLER GROWER

LAKEWOOD PROCESS MACHINERY **Econo Model S Air Cleaner**

- Gentle handling "No Drop" air leg
- Effectively separates light debris, small berries, sticks, and leaves from the main flow of berries
- All stainless steel frame with adjustable height legs
- Stainless steel mesh conveyor belt material
- Variable speed conveyor belt drive
- Variable speed fan control air volume

This is a basic model air cleaner built to satisfy the needs of smaller acre-age berry farms. Berries are emptied into a receiving funnel at the lower in feed end of the mesh conveyor. The berries are conveyed up the incline and then travel horizontally through the vertical air leg where the light debris is blown upward into the trash collection hood and out of the main flow of berries. The berries continue on the mesh belt without a drop or transfer until they reach the discharge end of the machine.



Mini Model S Air Cleaner Capacity

Working Width	Capacity
18"	2,000 lbs per hour

Econo Air Cleaner Inspection Options

Conveyor Options
Wire Belt

EASY-FLOW NO DROP AIR CLEANER

PATENT PENDING

THE UNMATCHED QUALITY OF AN EASY-FLOW & ONE LESS DROP



Easy Flow No Drop

- All stainless steel construction
- Easy-to-access debris collection cage
- Telescopic adjustable height legs
- Adjustable infeed height independent from main frame & exit end

Produce is fed onto the inclined conveyor either directly or into the optional metering hopper. Product is conveyed through the air stream all on one stainless steel wire belt conveyor to ensure fewer drop points and gentle handling through the debris removal process. Small and lighter berries, leaves, and debris follow the air stream into the overhead cage where it is conveyed out to one side via two 'trash' conveyors. The first conveyor carries out berries while the second conveyor carries out lighter sticks and leaves.



Easy Flow No Drop Capacities

Working Width	Capacity (lbs per hour)
33"	Approximately 8,000 lbs per hour
42"	Approximately 12,000 lbs per hour

Easy Flow No Drop Options

Conveyor Options
Stainless Steel Wire Belt
Fine Mesh SS Wire Belt

Infeed Length Options
6'
9'
12'

Additional options include:

- (a) Extended Discharge Conveyor Length
- (b) Lug Rack beneath Trash Discharge for Trash Collection
- (c) Controls & Trash Discharge (LH or RH)
- (d) Metering Hopper (shown at right)



FLAT INSPECTION CONVEYORS



INSPECTION CONVEYORS

A SIMPLE FLAT SORTING CONVEYOR FOR YOUR FRESH LINE

Product is fed onto the conveyor belt where grading personnel stand along each side and visually inspect the product for defects. Defect product is manually removed and dropped into the trash lanes along the edge of each side of the conveyor. Good product continues along the length of the conveyor and discharges off of the end of the belt while defects are dropped through a trash chute at the exit end of the conveyor and into a lug below.

Flat Inspection Conveyor Capacities

Working Width	Capacity (lbs per hour)
24"	Approximately 6,000 lbs per hour
30"	Approximately 7,000 lbs per hour
33"	Approximately 8,000 lbs per hour
36"	Approximately 9,000 lbs per hour
42"	Approximately 12,000 lbs per hour

(Standard) Flat Inspection Conveyor Options

Width	Belt Type	Lengths Available per Width / Belt
24"	Rubber	10' / 14'
30"	Rubber	14' / 18'
30"	SS Wire	12'
33"	SS Wire	15'
36"	Rubber	12' / 18'
36"	SS Wire	15'
42"	SS Wire	20'

Flat Inspection Conveyor Add-on Options

Light Kits

Overhead light kits available for most conveyor lengths



Flat Rubber Belt Inspection

- All stainless steel construction
- Easy, wipe-clean design
- Nonstaining, smooth rubber belting
- Trash collection lug rack for 30lb (or smaller) lugs
- 3" Flip-up, hinged trash lanes



Flat Wire Belt Inspection

- All stainless steel construction
- Easy-to-clean Sprocket Driven SS Wire Belt
- Easy-to-clean Plastic Intralox Belt 3" Trash Lanes
- Trash collection lug rack for 30lb (or smaller) lugs

ELEVATING INSPECTION CONVEYORS

ELIMINATE THE NEED FOR PLATFORMS IN YOUR PACKING LINE

Product is fed onto the conveyor belt where grading personnel stand along each side and visually inspect product for defects. Defect product is manually removed and dropped into the trash lanes along the edge of each side of the conveyor. Good product continues along the length of the conveyor, and up to the elevated discharge height, and discharges off of the end of the belt while defects are dropped through a trash chute at the exit prior to the elevating section, and into a lug below.

Inspection Conveyor Capacities

Working Width	Capacity (lbs per hour)
31"	Approximately 8,000 lbs per hour

Inspection Conveyor Add-on Options

Inspection Conveyor Options
Overhead light kits available for most conveyor lengths
Metal detector with pneumatic lift flip gate

(Standard) Inspection Conveyor Options (31" Wide)

Width	Belt Type	Length (Flat)	Length (overall)	Elevation
31"	SS Wire	6'	13'	19"
31"	SS Wire	7'	14'	19"
31"	SS Wire	10'	17'	19"
31"	SS Wire	13'	20'	19"
31"	SS Wire	13.5'	20.5'	19"
31"	Plastic	10'	17'	19"
31"	Plastic	10'	19'	25"
31"	Plastic	13'	20'	19"
31"	Plastic	13'	23'	36"



Plastic Belt Elevating Inspection

- All stainless steel construction
- Easy wipe-clean design
- Solid-top Intralox plastic belting
- Trash collection lug rack for 30lb (or smaller) lugs
- 3" Flip-up, hinged trash lanes



Wire Belt Elevating Inspection

- All stainless steel construction
- Easy-to-clean Sprocket Driven SS Wire Belt
- Easy-to-clean Plastic Intralox Belt 3" Trash Lanes
- Trash collection lug rack for 30lb (or smaller) lugs

INSPECTION CONVEYOR OPTIONS

LAKEWOOD
PROCESS MACHINERY

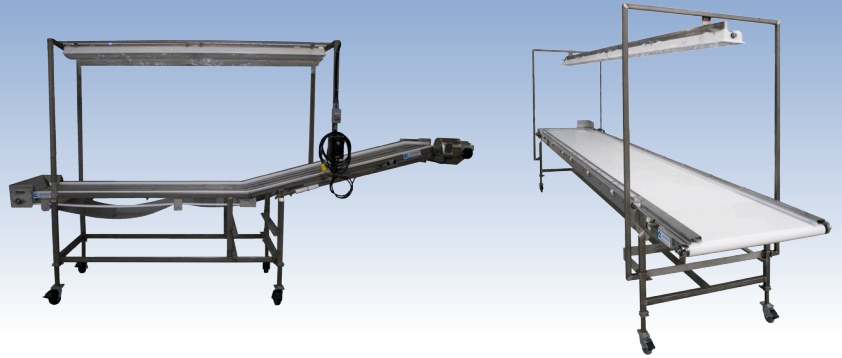
INSPECTION CONVEYORS

EQUIP YOUR INSPECTION CONVEYOR WITH ANY OF THESE OPTIONS



Overhead Light Kit

- All stainless steel construction
- Mounts directly onto Lakewood conveyors
- Available for both Flat Inspection Conveyors & Elevating Inspection Conveyors



Wash Booths

- All stainless steel construction
- Includes 5 overhead spray bar manifolds and 5 underside spray bar manifolds to effectively wash all sides of the product
- Includes 2" drain opening at bottom end for booth drainage

Wash, rinse, or sanitize your product directly after the inspection process with a Lakewood Wash Booth.

After product is inspected, it is conveyed into the wash booth section where product is washed from above and below.

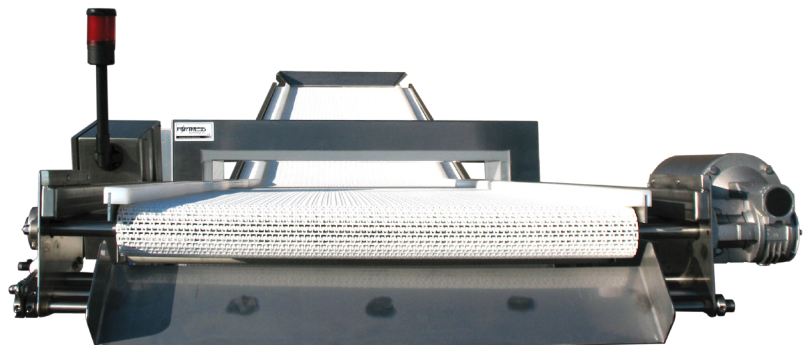
Standard model only available to fit a 31" Inspection Conveyor



Metal Detector

- All stainless steel construction
- Stainless steel aperture head
- Beacon light
- Automated pneumatic flip gate for accurate removal of unwanted debris without stopping production

Accurately find and eliminate small metal particles without stopping or slowing down production by adding a metal detector to your inspection conveyor.



METAL DETECTORS

A HIGH SPEED, HASSLE FREE, STAND ALONE METAL DETECTION SYSTEM

LAKWOOD Stand-Alone Metal Detector

- **Pneumatic flip gate for no-hassle metal debris removal**
- **Stainless steel easy-clean design**

As berries are conveyed through the stand-alone conveyor's metal detecting section, this powerful metal detector picks up the smallest metal scraps and sets off the trigger to activate a beacon light above the machine, and drop the pneumatic dump gate, which allows the contaminated fruit to be collected into a lug for the further inspection to ensure that any berries that continue down your packing line are free of any metal debris.

Metal Detector Capacities

Working Width	Capacity (lbs per hour)
32"	8,000
40"	12,000

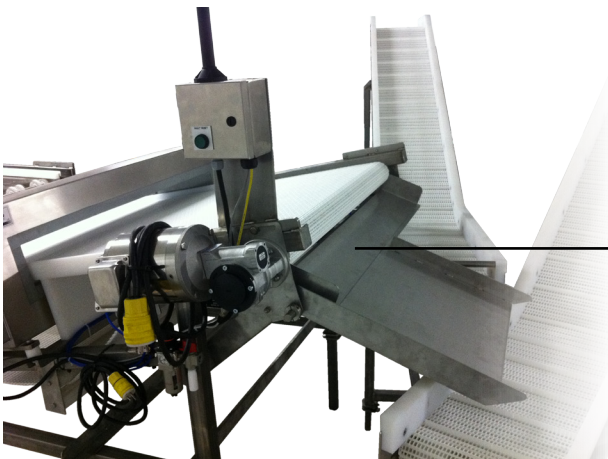
Metal Detector Options

Options
Pneumatic Flip Gate
Detection Beacon Light

Pneumatic Flip Gate
activated when debris is detected

Chute carries detected
debris to the lug below

Lug Rack



(Pneumatic Flip Gate
shown here)

CLAMSHELL WHEEL DENESTERS



CLAMSHELL DENESTERS

A SIMPLE, TIME TESTED DESIGN, GEARED TOWARDS DENESTING PINTS



Wheel Denester

- All stainless steel construction
- Precision machined denester wheels

Clamshells are placed onto the rear loading section of the wheel denester where they are staged until a hopper eye (included with denester) which is mounted onto the hopper feeding your clamshells, recognizes berries in the hopper. As the hopper eye recognizes berries, it will automatically start the denesting process to ensure very little product is spilled, and will keep moving clamshells under the hopper at all times, assuming the hopper is being fed at a steady rate.

The key to our Wheel Denester is the precision machined wheels which separate the cups from one another. For each rotation of the denester wheel, a clamshell will gently fall onto the filler's container conveyor.

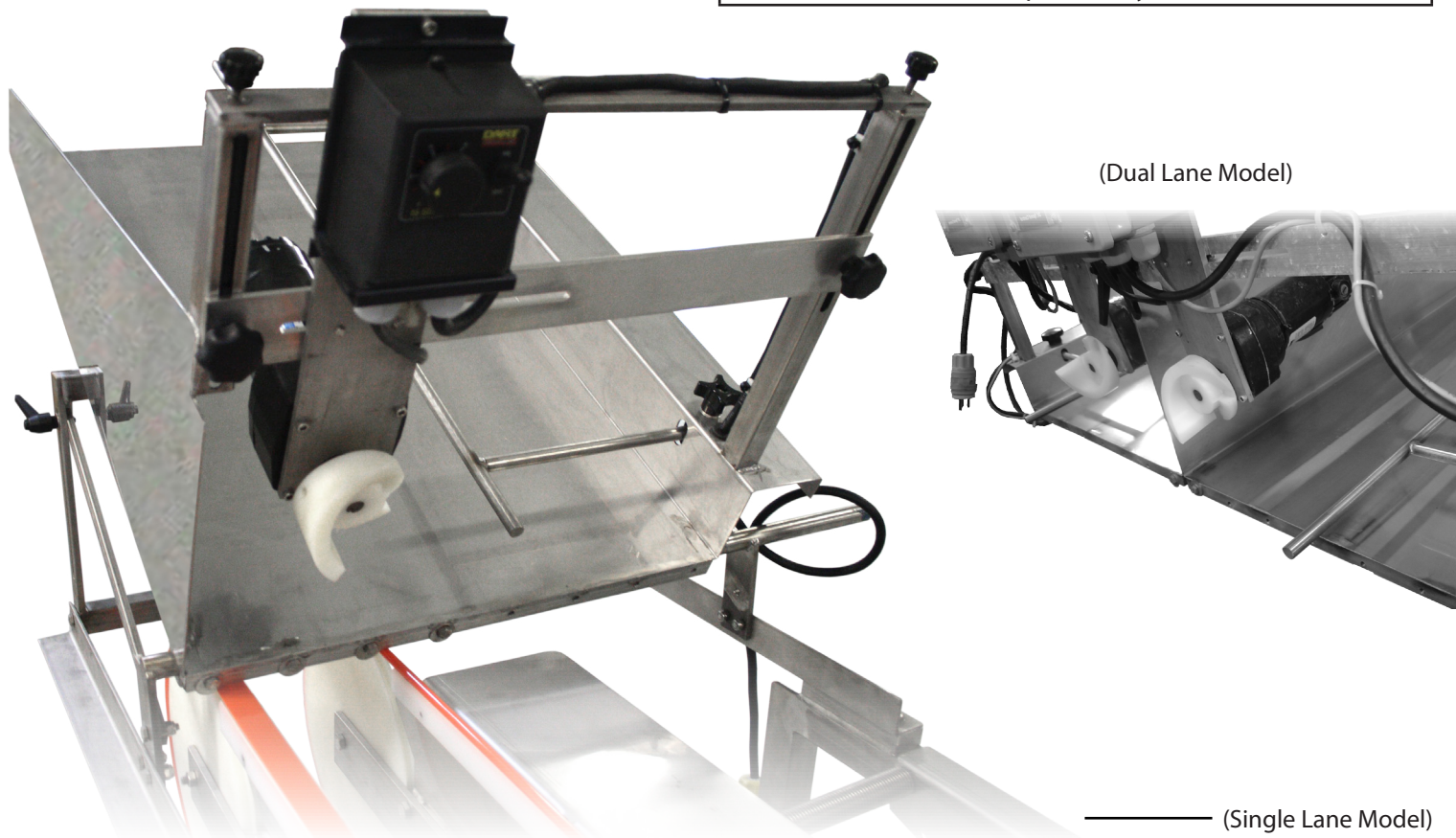
* Wheel Denester Capacities

Model	Capacity (Pints per Minute)
Single Lane	200+ Pints per minute
Dual Lane	400+ Pints per minute

** Wheel denester capacities of 200+ containers are based on running pint containers - capacities for larger or different sized clamshells may vary.*

Wheel Denester Options

Mounting Options
Stand Alone (includes stand for denester)
Mountable (mounts directly onto filler)
LH / RH Models
LH Model (Standard)
RH Model (Required only for RH filler)



(Dual Lane Model)

(Single Lane Model)

CLAMSHELL WEDGE WHEEL DENESTERS

PATENT PENDING

ACHIEVE CONSISTENT & ACCURATE CUP PLACEMENT WITH FEWER DOUBLES

LAKEWOOD Wedge Wheel Denester

- All stainless steel construction
- Quick and simple container changeover

Clamshells are staged in their custom fit cartridges over top of an indexing conveyor or the live belts on our Single Lane Adjustable Filler. As the hopper eye (included) mounted on your filler's hopper recognizes berries and a need for containers below, the denester simply 'flicks' the container down onto the conveyor. Changing container sizes is as simple as removing one cartridge and replacing it with another, and your ready to keep denesting.

The most exciting feature of this machine is that it is built around the footprint of specific containers. In order to ensure the highest level of speed and accuracy, we have essentially taken the need for making adjustments in the field entirely out of the picture by giving you container specific cartridges that are guaranteed to denest your containers with nothing more than some initial fine tuning.

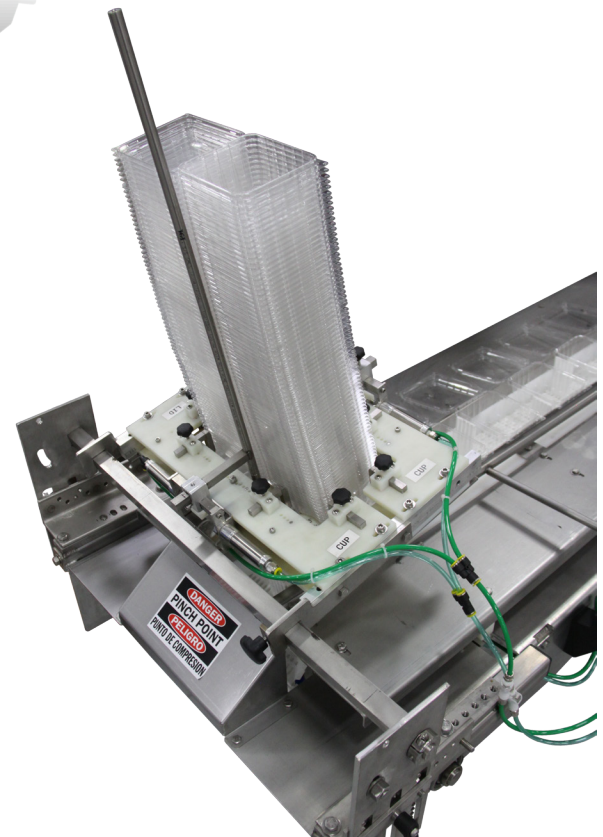
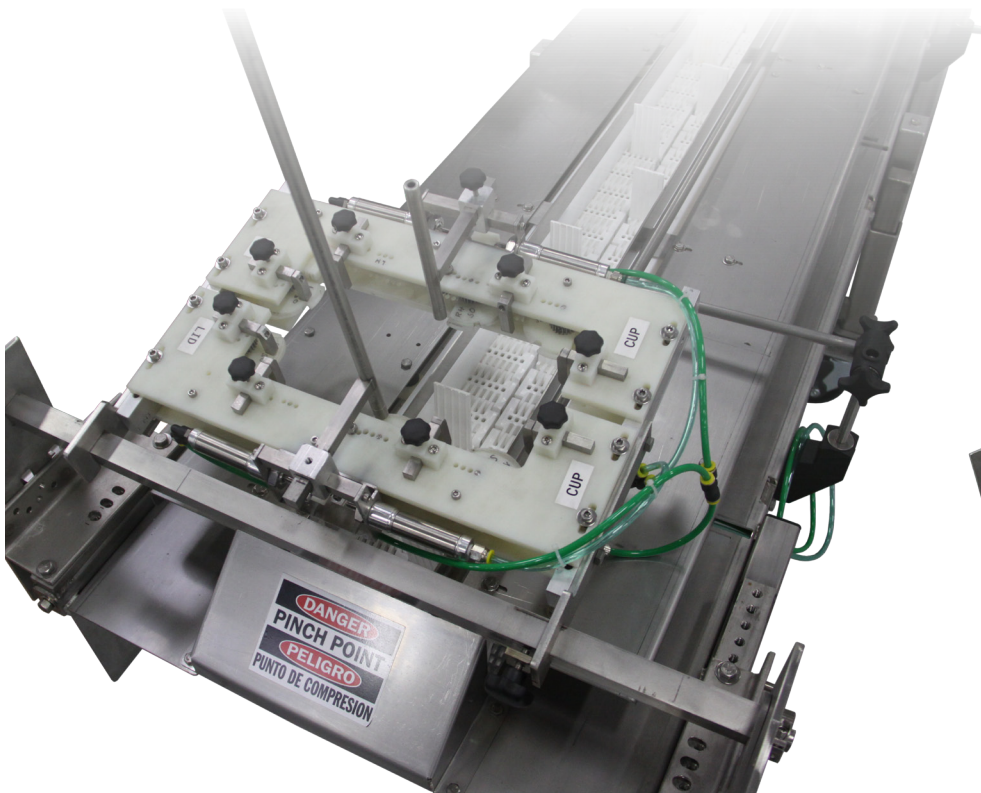
* Wedge Wheel Denester Capacities

Capacity (Containers per Minute)
300+ containers per minute

* Wedge Wheel Denester capacities are dependent on the filling rate, and the speed of the indexing conveyor / live belts that containers are denesting onto.

Wedge Wheel Denester Options

Clamshell Sizes	Compatible Cartridge Model
4oz	Model # SR
6oz	Model # SR
Standard Pint	Model # SR
11oz Long	Model # LR
18oz Long	Model # LR
18oz Shallow	Model # LSQ
24oz	Model # LSQ
2lb	Model # LSQ



CLAMSHELL SCISSORS DENESTERS



CLAMSHELL DENESTERS

AN EXTREMELY FAST AN ACCURATE WAY TO SEPARATE CLAMSHELL CONTAINERS,
PREPARING THEM FOR THE FILLING PROCESS

Scissors Denester

- Easily adapts to most clamshells
- Extremely high accuracy with minimal doubles
- Feeds clamshells onto nearly any filling machine
- Accepts all clamshell sizes from 4.4oz to 2.75lb

A stack of clamshells is removed from the manufacturers box and placed onto the staging area of the scissors denester. As the hopper eye (included with purchase) mounted onto your filler's hopper recognizes berries and a need for containers below, the denester's scissors feature plunges between clamshells, opens, separating the clamshells from one another, and 'kicks' the loosened clamshell away from the stack, allowing it to fall into the guide rails and onto your filler's infeed belt for the filling process.

* Scissors Denester Capacities

Model	Capacity (Containers per Minute)
Single Lane	200+ Clamshells per minute
Dual Lane	400+ Clamshells per minute

* Scissors denester capacities of 200+ containers are based on running pint containers - capacities for larger or different sized clamshells may vary.

Scissors Denester Options

Mounting Options
Stand Alone (includes stand for denester)

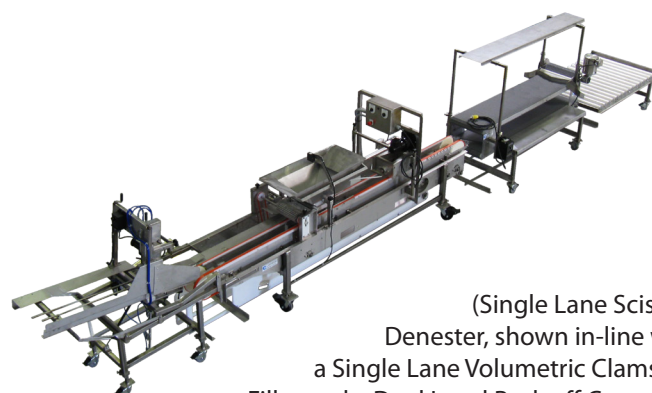
LH / RH Models
LH Model (Standard)
RH Model (Required only for RH filler)



(Single Lane Model)



(Dual Lane Model)



(Single Lane Scissors Denester, shown in-line with a Single Lane Volumetric Clamshell Filler and a Dual Level Pack off Conveyor)



SCISSORS CLOSED...DIVING BETWEEN CLAMSHELL HINGE



SCISSORS OPENING



SCISSORS KICKS CLAMSHELL AWAY FROM STACK

DUAL LEVEL PACKING CONVEYORS

FAST AND EFFICIENT CLAMSHELL CASE PACKING MADE EASY



Dual Level Packing Conveyors

- **Stainless steel easy-to-clean design**
- **Multiple length options to suit your specific operation**
- **Full case collection conveyor included**
- **Lowest profile top conveyor deck in the industry - less drop height from conveyor to case**

Full clamshells are conveyed onto the packing conveyor while empty cases are stored above. Packers pull an empty case from above and fill it with clamshells. When full, the case is slid underneath the clamshell conveyor onto a case conveyor, which discharges it off the end onto a roller track conveyor (shown at bottom right) where cases are staged prior to palletizing.

This is the most efficient method to case pack clamshell containers. Time is not wasted carrying away full cases, or retrieving empty cases as all are within reach of every packer, therefore reducing the time and labor needed to fill cases.

Packing Conveyor Models

Models Available	Conveyor Length
2 Person	5'
4 Person	6'
6 Person	9'
8 Person	12'
10 Person	16'
16 Person	20'

Packing Conveyor Options

Packing Conveyor Options
Overhead Roller Track Conveyor
Overhead Box Shelf
Overhead Powered Box-Delivery Conveyor System
Bottom of Clamshell Coding System
Lug Racks at Either End

(6 Person Model Shown with standard overhead shelf)



(8 Person Model Shown with overhead roller track shelf)



(10 Person Model Shown with overhead roller track shelf)



(Full Case Collection Gravity Roller Conveyor - included with each Dual Level Packing Conveyor)



ROTARY PACKING TABLE

LAKEWOOD
PROCESS MACHINERY

CASE PACKING

**EFFICIENT METHOD TO ACCUMULATE PRODUCT OR PACKAGES FOR
CASE PACKING, BAGGING, OR SORTING APPLICATIONS**



Rotary Packing Table

- **Stainless steel, easy to clean design**
- **Adjustable height from 26" to 36"**

Product is conveyed onto the packing table as it rotates around. Workers can surround the perimeter of the table to pack product in cases, bags, or other types of containers.

The Rotary Packing Table is Lakewood's most economical case packing option, and the perfect solution for packing facilities who are tight on space.

Rotary Packing Table Models

Models Available
48" Diameter
60" Diameter

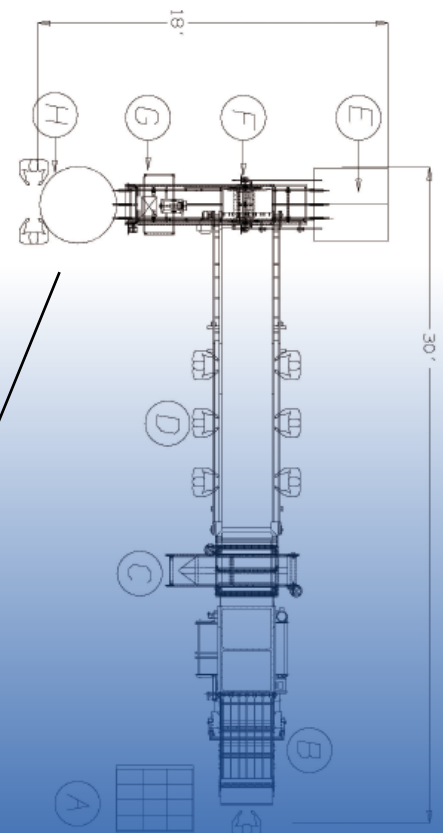
Rotary Packing Table Options

Rotary Packing Table Options
Stainless Steel Rim

Adjustable arm to contain /
move product towards the
center of the table as it rotates



(Rotary packing table shown here in a Lakewood
fresh packing line layout)



IQF RASPBERRY BOX & BAG FILLER

HIGH-SPEED WEIGH-FILLING SYSTEM FOR LARGE BAGS AND BOXES

Bag & Box Filling System

Package includes the following:

- Crumble Separating Shaker System
- Crumble Exit Conveyor
- Box Scale
- Box & Bag Filling Apparatus
- Control Panel

Crumble Separating Shaker: Product is fed onto the shaker unit which drops out small berry crumbs and distributes product evenly for an even and accurate fill weight

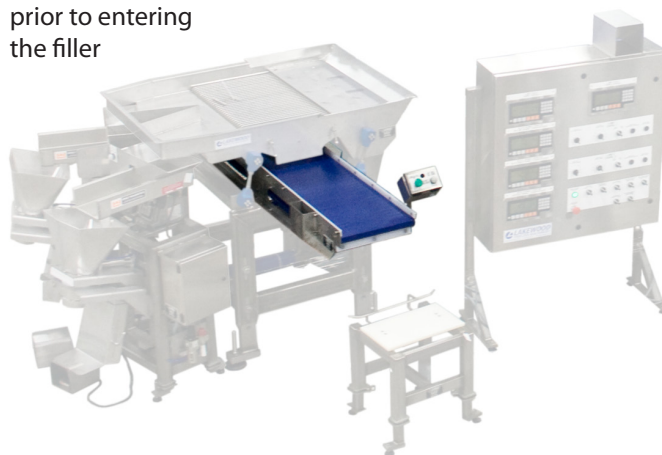


* Grates are removable and available with a variety of gap sizes

Box Scale: The box scale allows you to box-fill the smaller product and crumbs that are removed from the line prior to the main filling stations



Crumble Exit Conveyor: Crumbles and smaller product that fall through the Separating Shaker are conveyed out of the main flow of product prior to entering the filler



IQF RASPBERRY BOX & BAG FILLER

LAKEWOOD
PROCESS MACHINERY

BAG & BOX FILLING SYSTEM

HIGH-SPEED WEIGH-FILLING SYSTEM FOR LARGE BAGS AND BOXES

LAKEWOOD PROCESS MACHINERY **Bag & Box Filling System**

Package includes the following:

- Crumble Separating Shaker System
- Crumble Exit Conveyor
- Box Scale
- Box & Bag Filling Apparatus
- Control Panel



Bag & Box Filling System: Berries are packed into bags or boxes by this highly-effective filling system



Box Filling:

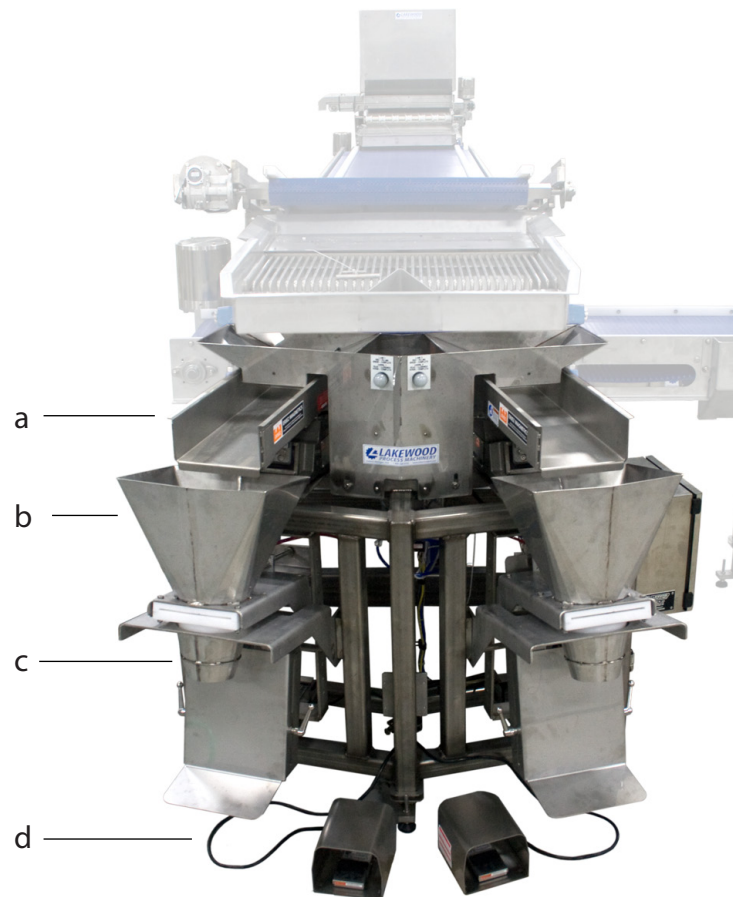
Scales will fill boxes until target weight is reached and will stop feeding until boxes are changed

Bag Filling:

Will make target weight batches of product and stop until weighed product is released and dropped into bags, and will stop feeding until bags are changed

(2) Filling Stations Including:

- a. Vibrating Feeder Trays
- b. Weigh Hoppers
- c. Removable Bagging Attachment
- d. Foot Switch (Opens hopper gate when target weight is reached)



FRESH PACK BOX FILLERS

EFFICIENT AND EASY-TO-OPERATE FRESH PACK BOX FILLING SYSTEMS



SP Series Box Filler

- **High-speed 'bulk-fill' / Low-speed 'final-fill' to ensure accuracy**
- **Controls mounted on-board**
- **Programmable weight settings from 0-85lbs**
- **Adjustable scale heights to fit a wide range of boxes**
- **Easy-to-clean all stainless steel design with no trap points for debris**

SP100: Product is conveyed into the initial filling hopper. Once set points are set and a box is in place, with a push of a button, product is fed into the box below. As the weight approaches the final fill weight, the metering feed slows down for accurate filling every time. Once the final fill weight has been achieved, the filler automatically stops to allow for the removal of the full box.

(SP100 Shown with belt-feed style feeder tray
- also available with a vibratory feeder tray)



(SP100 Shown with **scale platform**, where product is weighed on scale during the filling process)

SP Series Box Filler Capacities

Model	Scale Style	Lbs per Hour
SP100 Belt Feed	Scale Platform	6,000
SP100 Vibratory Feed	Scale Platform	6,000
SP150	Weigh-Hopper	4,000

SP Series Box Filler Options

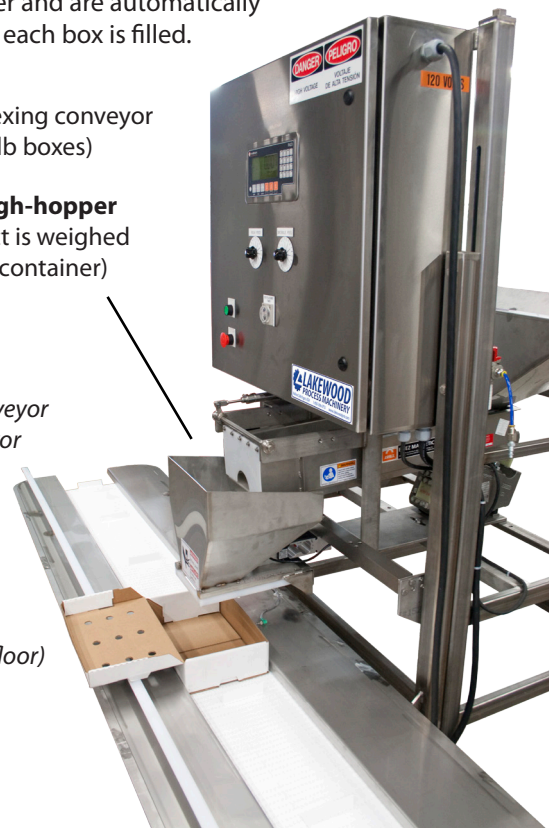
SP Box Filler Options
Belt-Conveyor Style Feeder Tray
Vibratory Feeder Tray
Automated Indexing Conveyor
Roller Track Conveyor

SP150: Produce is conveyed into initial hopper and then onto a belt or vibratory feeder tray, which feeds the weigh-hopper above the empty box ready to be filled. As the weigh-hopper nears the specified weight, a dribble gate is activated to maximize accuracy until the scale has reached the correct weight. Boxes are indexed on the conveyor below the weigh-hopper and are automatically conveyed forward after each box is filled.

(SP150 Shown with indexing conveyor option built for 5 and 10lb boxes)

(SP150 Shown with **weigh-hopper** scale style where product is weighed in hopper prior to filling container)

(The SP150 Indexing conveyor features a flighted conveyor belt which brings any spilled product to the end of the conveyor and drops it into a lug (lug rack included) below the conveyor to keep all spilled product off of the floor)



FRESH PACK BOX FILLERS



BOX FILLING

EFFICIENT AND EASY-TO-OPERATE FRESH PACK BOX FILLING SYSTEMS



SP Series 2-Head Box Filler

- High-speed 'bulk-fill' / Low-speed 'final-fill' to ensure accuracy
- Controls mounted on-board
- Programmable weight settings from 0-85lbs
- Adjustable scale heights to fit a wide range of boxes
- Easy-to-clean all stainless steel design with no trap points for debris

SP200 w/ Indexing Conveyor: Product is conveyed into the initial filling hopper and boxes are staged on the indexing conveyor. Product travels from the initial hopper into the (2) boxes below via vibratory feeder trays. As the scales beneath the boxes near the specified weight a dribble gate is activated to maximize accuracy until the scales have reached their correct weights. Once the boxes have met their weight they are automatically conveyed away while 2 more boxes are automatically staged on the scale beds beneath the filling trays.



(SP200 Shown with **scale platforms**, where product is weighed on scale during the filling process)

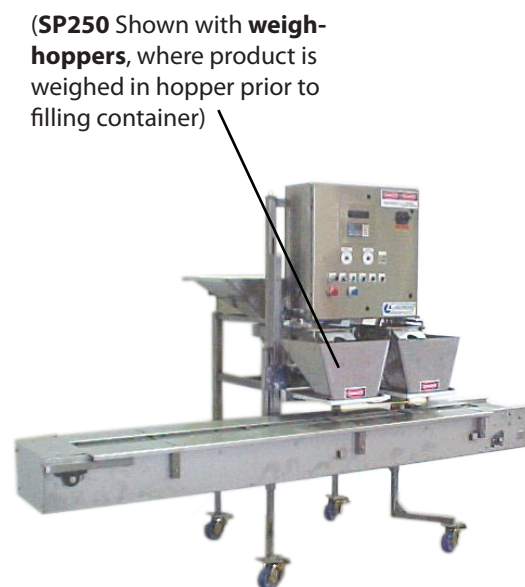
SP Series Box Filler Capacities

Model	Scale Style	Apprx lbs per Hour
SP200 Belt Feed	Scale Platform	8,000
SP200 Vibratory Feed	Scale Platform	8,000
SP250	Weigh-Hopper	8,000

SP Series Box Filler Options

SP Box Filler Options	Models Related
Belt-Conveyor Style Feeder Tray	SP200, SP250
Vibratory Feeder Tray	SP200, SP250
Automated Indexing Conveyor	SP200, SP250
Roller Track Conveyor	SP200

SP250: Product is conveyed into initial hopper and then onto two separate vibratory feeder trays, which feed the weigh-hoppers above the empty boxes ready to be filled. As the weigh-hopper nears the specified weight, a dribble gate is activated to maximize accuracy until the weigh-hoppers have reached the correct weight. Boxes are indexed on the conveyor below the weigh-hoppers and are automatically conveyed forward after each box is filled.



(SP250 Shown with **weigh-hoppers**, where product is weighed in hopper prior to filling container)

PROCESS LINE BOX FILLERS

HIGH-SPEED SINGLE & MULTI-HEAD FILL-BY-WEIGHT BULK BOX FILLERS

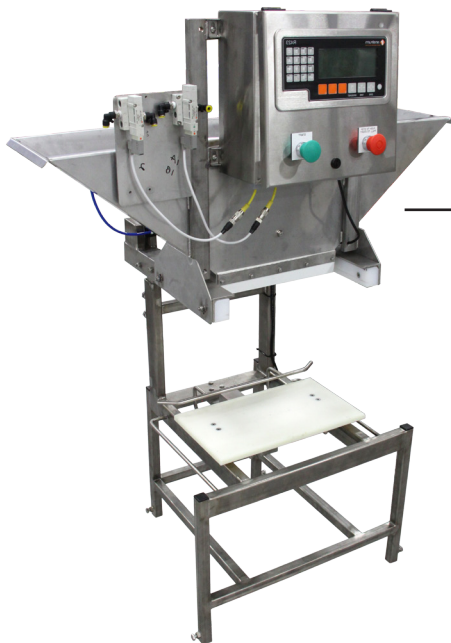


Drop-Thru Box Fillers

- **Non-stop filling process**
- **Washdown design allows for easy cleaning**
- **High accuracy fill weight achieved by two-stage filling mechanism**

The multi-head box filler is a versatile component for your packing needs. It's automated design ensures accurate fill-by-weight discharge. Available with 1 or more filling stations, it is designed to fit your daily volume and filling requirements.

Product is conveyed into a filling hopper where it is then discharged into the container. Empty containers are automatically fed into the filling station, allowing each station to operate independently. This also allows different products to be filled at each station simultaneously.



Single Head
Drop-Thru 30lb
Box Filler

Single Head Drop-Thru 30lb Box Filler with Indexing Conveyor and Incline Exit End for taping boxes at a comfortable height



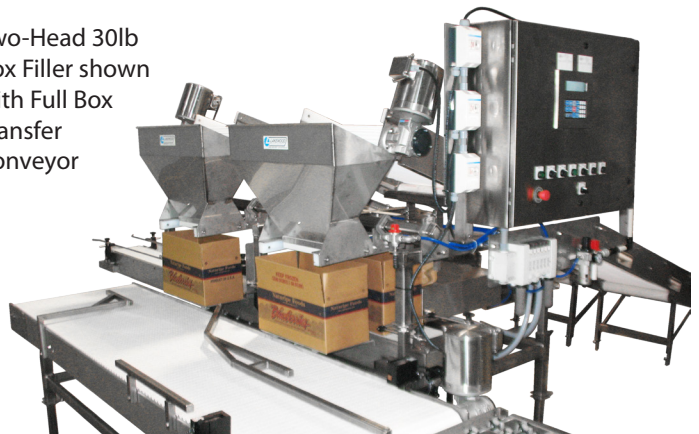
Box Filler Capacities

Model	Capacities (lbs per hour)
Single Head	6,000 lbs per hour
Two Head	10,000 lbs per hour
Three Head	15,000 lbs per hour
Four Head	20,000 lbs per hour

Box Filler Options

Box Filler Options
Belt-Conveyor Style Feeder Tray
Vibratory Feeder Tray
Automated Indexing Conveyor
Roller Track Conveyor

Two-Head 30lb
Box Filler shown
with Full Box
Transfer
Conveyor



Three-Head 30lb
Box Filler



PROCESS LINE BOX FILLERS

LAKEWOOD
PROCESS MACHINERY

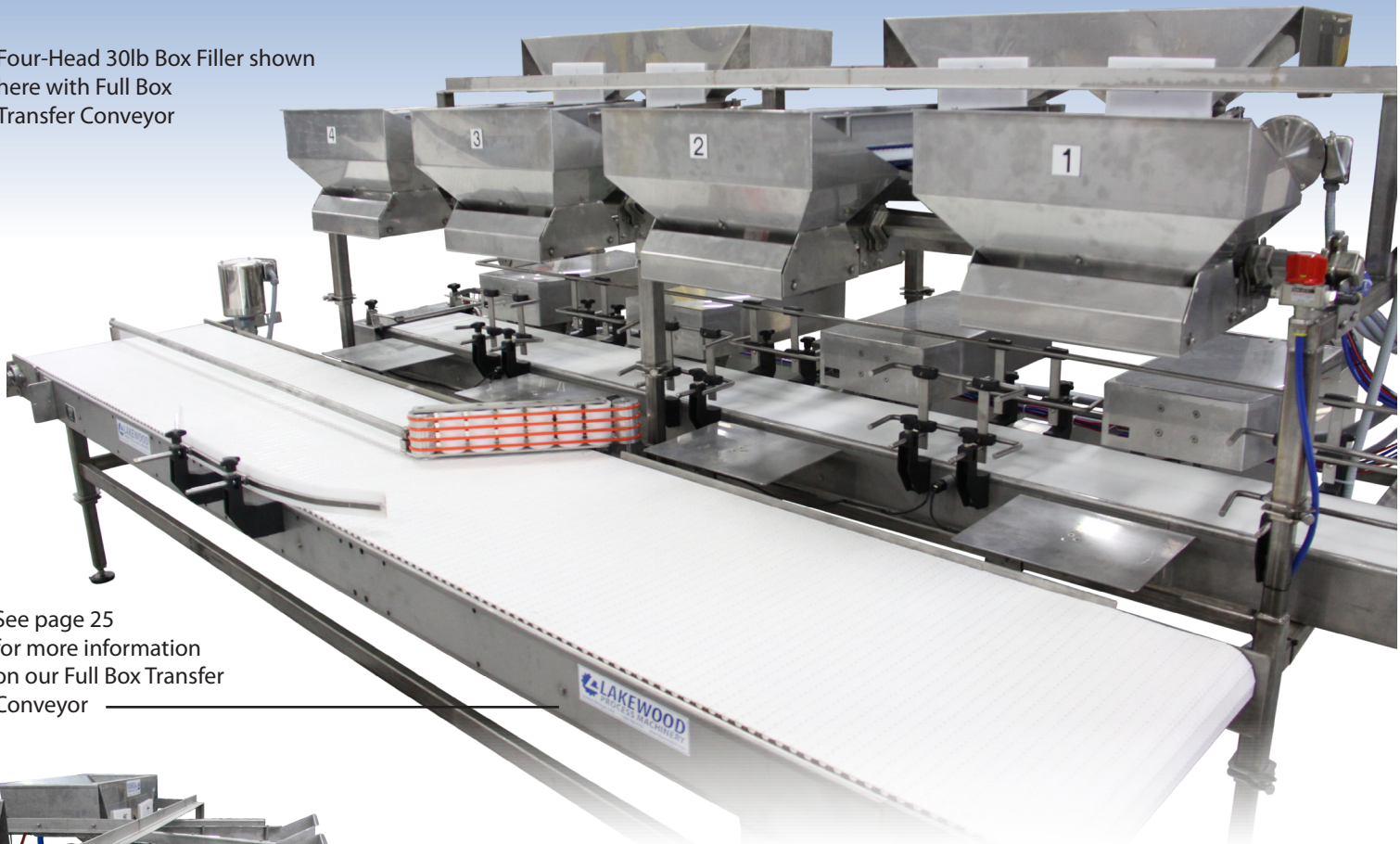
BOX FILLING

HIGH-SPEED SINGLE & MULTI-HEAD FILL-BY-WEIGHT BULK BOX FILLERS

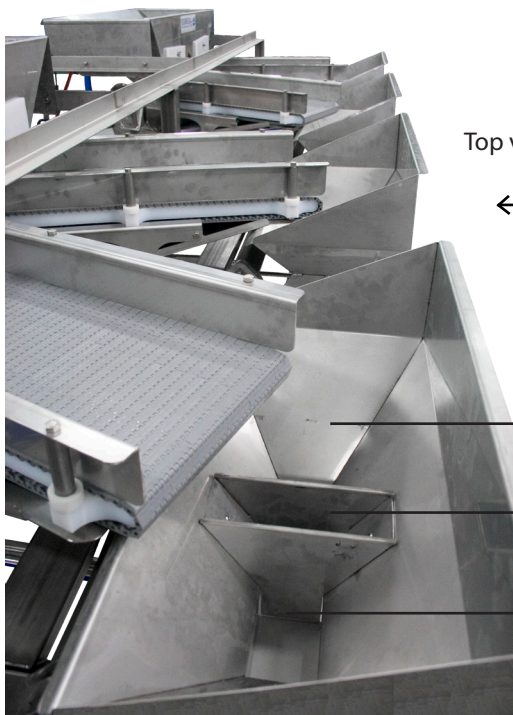


Drop-Thru Box Fillers

Four-Head 30lb Box Filler shown
here with Full Box
Transfer Conveyor



See page 25
for more information
on our Full Box Transfer
Conveyor



Top view of our Four Head
Box Filler's hopper
distribution
←

Bulk Hopper

Dribble Hopper

Bulk Hopper



Control Panel on
Lakewood's Four-Head
Box Filler shown here

PROCESS LINE BOX FILLERS

KEEP SMALL AND LARGE BERRIES SEPARATE AFTER THE FILLING PROCESS



Full Box Transfer Conveyor

Lakewood's Full Box Transfer / Take-Away Conveyor not only keeps large berry boxes and small berry boxes separated when using a Lakewood Multi-Head Filler, but allows you to stream back down to a single line, keeping you from having to use two tape machines, two metal detectors, etc.

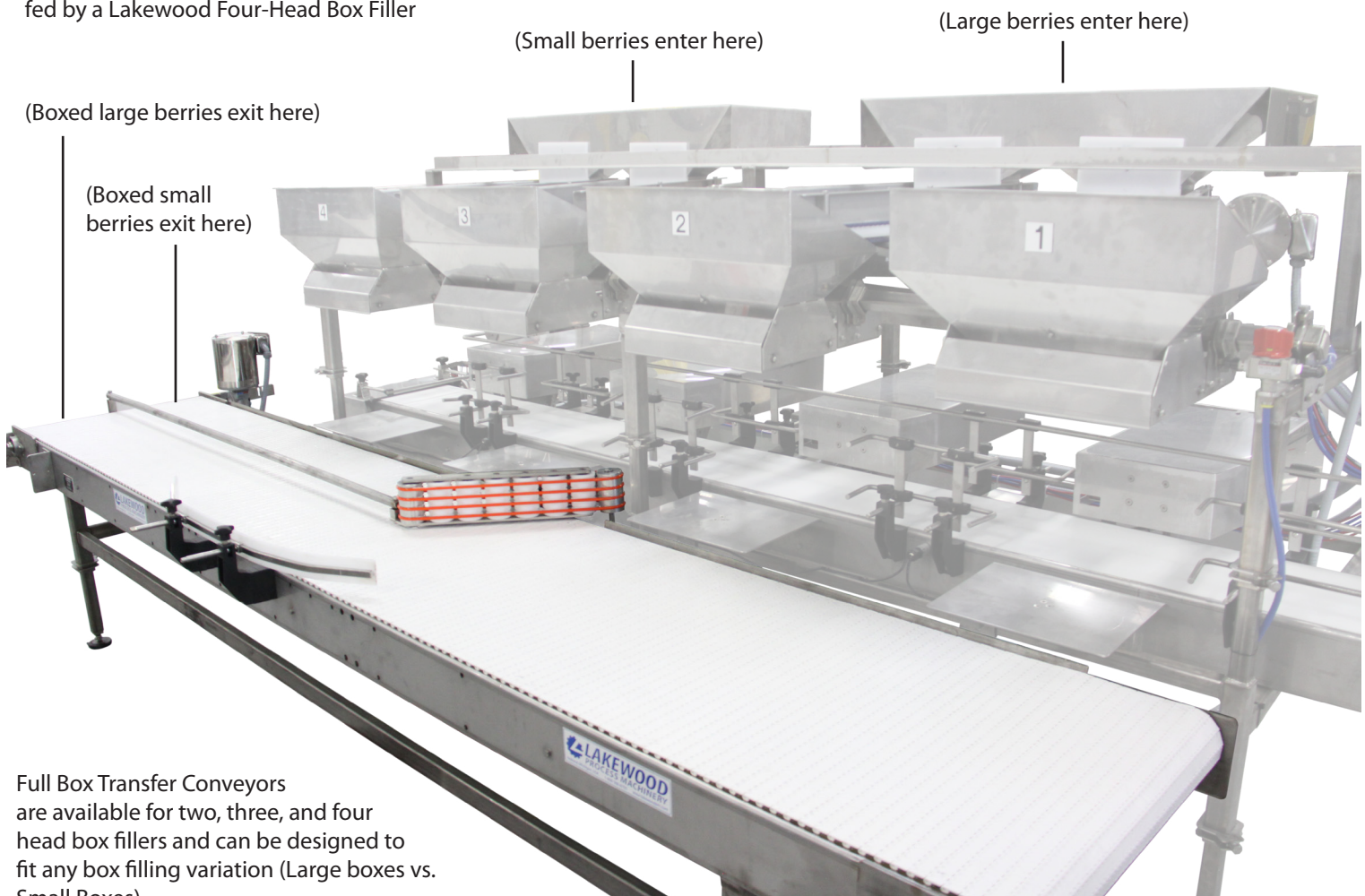
When boxes reach the set weight on a Lakewood Box Filler, they are automatically pushed from the weigh platform onto the Full Box Transfer Conveyor. The guides on the conveyor ensure that boxes remain separated after they have been filled so boxes with large berries do not get mixed in with boxes with small berries or visa versa. The conveyor also allows you to mount ink coders (sold separately) at the exit end to code / mark boxes as large or small berry boxes with different colored ink, simplifying the process of keeping boxes separated after they leave the transfer conveyor and continue on through metal detection and palletizing.

Full Box Transfer Conveyor shown below, being fed by a Lakewood Four-Head Box Filler

Full Box Transfer Conveyor Options

Options

Ink Coders and Mounting Hardware



Full Box Transfer Conveyors are available for two, three, and four head box fillers and can be designed to fit any box filling variation (Large boxes vs. Small Boxes)

ZERO-RADIUS BOX TURN CONVEYOR

LAKEWOOD
PROCESS MACHINERY

CONVEYORS

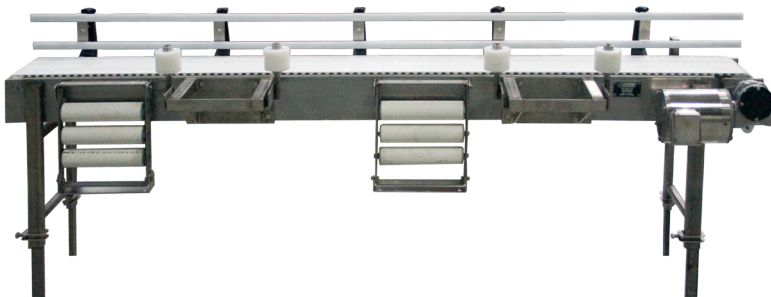
AN EASY & EFFICIENT WAY TO TURN YOUR PROCESS LINE'S FULL BOXES 90 DEGREES

LAKEWOOD PROCESS MACHINERY Zero Radius Turn Conveyor

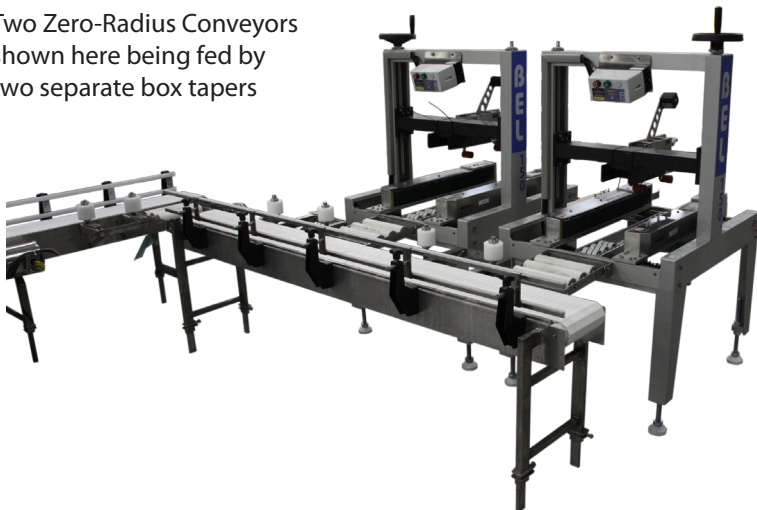
- All stainless steel frame construction
- Easy to use with adjustable guides to work with different box shapes and sizes
- Easy to clean design

An easy and efficient way to change the direction of your process line's full box take-away section.

Once boxes are filled and taped / sealed, they are conveyed onto one of the adjustable infeed roller platforms and then onto the Zero Radius Box Turn Conveyor's conveyor belt. As the front of the box starts to follow the direction of the conveyor, the guides (shown below) allow the box to gently carry itself over until it is completely setting on the conveyor belt where it can continue down the line to be palletized.



Two Zero-Radius Conveyors shown here being fed by two separate box tapers



FLOW-SPLITTING CONVEYOR SYSTEMS

DIVIDE & DIRECT YOUR PRODUCT TO TWO SEPARATE FILLING STATIONS WITH EASE



Flow Divider Conveyors

- **Easy-to-clean, heavy duty stainless steel frame**
- **Shaft mounted gear drives**
- **Standard *divider travel distance of 36"**
- **Variable speed controls available**
- **Hand Crank or Field mounted divider switch available (adjust product flow from a remote switch mounted on a filler, or other piece of equipment in your line)**

An operator adjusts the center divider to a desired position without affecting the conveyor's discharge point. This allows perfect control over the amount of product that feeds two machines or conveyors. It is not necessary to relocate conveyors or machines on the floor - Infeed conveyors feeding the flow divider remain in place. Machinery or conveyors located at the discharge ends of the flow divider belt also remain stationary while only the infeed position is mechanically moved.

"Flip-Chute" Flow Divider

Ideal for those who require complete adjustability of line flow, all on one conveyor, while running product from two separate fresh pack grading lines. Two belts run in opposite directions, allowing the simple flip of a chute to adjust the product flow to either end of the conveyor system.

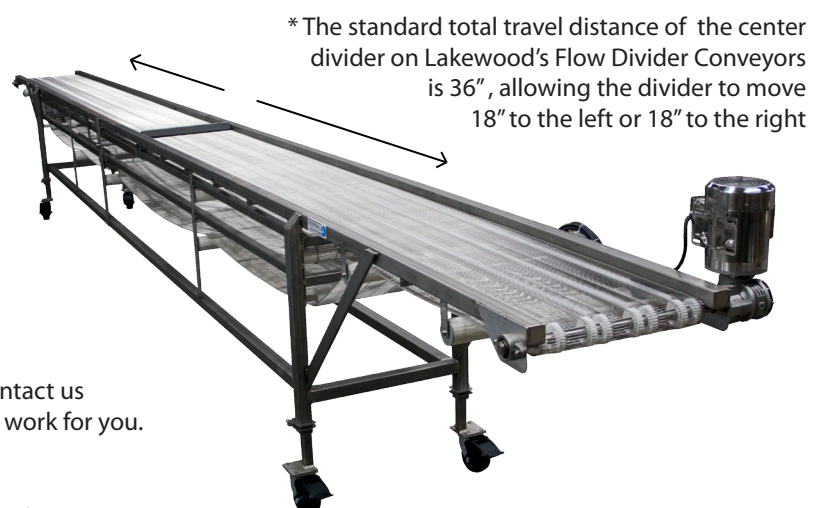


(Flat) Flow Divider Conveyor Capacities

Working Width	Length	Belt	Capacity (lbs per hour)
20"	12'	Plastic / SS Wire	(+/-) 10,000 lbs per hour
20"	18'	SS Wire	(+/-) 10,000 lbs per hour
20"	20'	SS Wire	(+/-) 10,000 lbs per hour
20"	30'	SS Wire	(+/-) 10,000 lbs per hour

(Elevating) Flow Divider Conveyor Capacities

Working Width	Total Length	Extension Length	Elev. Adjustability	Belt	Capacity (lbs per hour)
18"	19.5'	3' Long both ends	0-20 Degrees	SS Wire	(+/-) 10,000 lbs per hour
20"	22'	5' Long both ends	0-22 Degrees	SS Wire	(+/-) 10,000 lbs per hour
20"	22'	6' Long one end	0-20 Degrees	Plastic	(+/-) 10,000 lbs per hour
20"	30'	6' Long both ends	0-15 Degrees	SS Wire	(+/-) 10,000 lbs per hour



* The standard total travel distance of the center divider on Lakewood's Flow Divider Conveyors is 36", allowing the divider to move 18" to the left or 18" to the right

Both elevating, and flat style flow divider conveyors are shown here. There are numerous options and customizable features available. Contact us for more information on how we can make our flow dividing systems work for you.

FLOW-SPLITTING CONVEYOR SYSTEMS

LAKEWOOD
PROCESS MACHINERY

CONVEYORS

DIVIDE & DIRECT YOUR PRODUCT TO TWO SEPARATE GRADING LINES WITH EASE



Stagger Belt Conveyor

- **All stainless steel construction / stainless motor**
- **Allows product to split off from a single conveyor to two separate conveyors**
- **8 separate plastic staggered belts feed product on to conveyors evenly, avoiding a concentrated build up of product on the center of the conveyors below**
- **Telescopic adjustable legs**

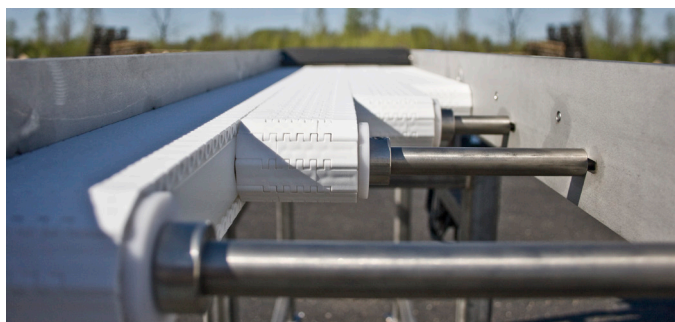
Stagger Belt Conveyor Capacities

Working Width	Length	Capacity (lbs per hour)
12"	9'	8,000

Stagger Belt Conveyor Options

Stagger Belt Conveyor Options
Variable Speed Controls
Custom Lengths Available
Casters

Berries are conveyed from a single infeed conveyor (commonly feeding from a color sorter) and onto the Lakewood Stagger-Belt. Once product reaches the stagger belt, berries are sent in opposite directions onto two separate grading conveyors. The innovative design spreads product out evenly to allow for more accurate and more efficient inspection of product.



Multiple staggered belts allow product to discharge from the stagger belt evenly onto conveyors below

TRANSFER CONVEYORS

AVOID THE NEED FOR PERSONNEL PLATFORMS BY LIFTING PRODUCT FROM YOUR GRADING CONVEYOR UP TO YOUR FILLER WITH THE 'Z-BELT'

LAKWOOD PROCESS MACHINERY 'Z-Belt' Transfer Conveyor

- **Easy-to-clean design**
- **All stainless steel construction**
- **Stainless steel wire belt or Rubber belt**
- **Telescopic adjustable height legs**

Typically installed at a right angle after inspection conveyors that are low enough to keep grading personnel standing on the floor and off of platforms. Product is fed onto the lower flat section of the conveyor and then up onto the inclined section to lift product to the final discharge height.

'Z-Belt' Transfer Conveyor Capacities

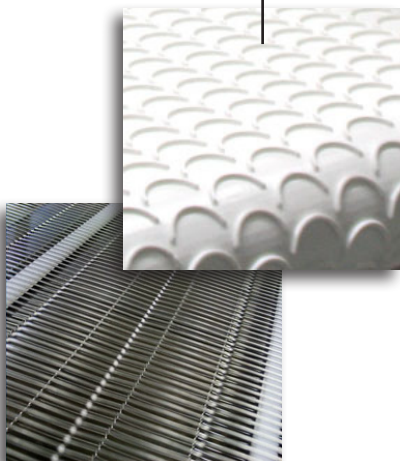
Working Width	Length	Lbs per Hour
22"	10'	8,000

'Z-Belt' Transfer Conveyor Options

'Z-Belt' Transfer Conveyor Options
Wire or Rubber Belting
Variable Speed Controls
Casters
Also available in custom lengths to fit your specific needs

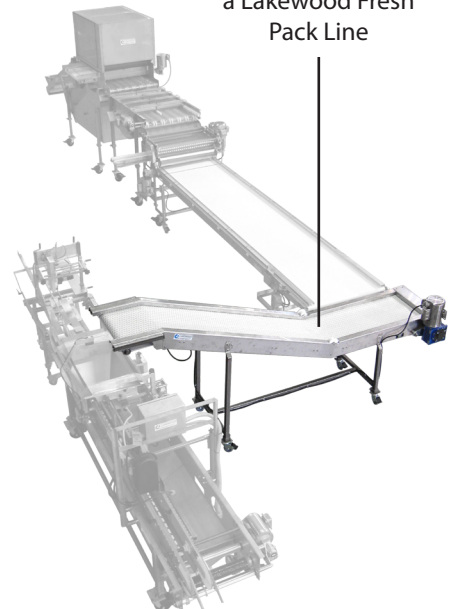


Belt Styles Available for Lakewood's Z-Belt Transfer Conveyor



Rubber 'Meat-Cleat' Belt / Stainless Steel Wire Belt

Z-Belt shown in a Lakewood Fresh Pack Line



TRANSFER CONVEYORS

LAKEWOOD
PROCESS MACHINERY

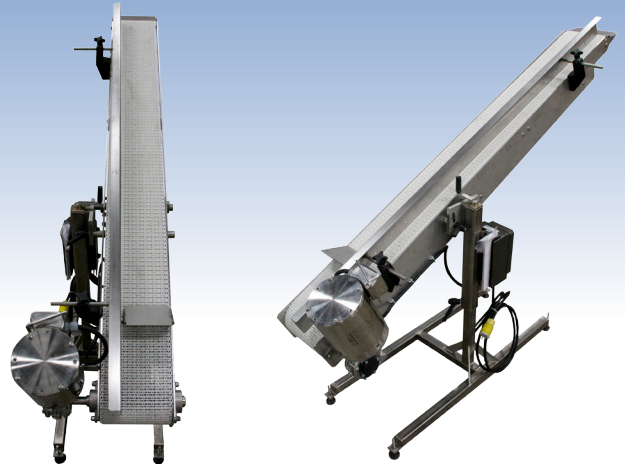
CONVEYORS

CONTACT US TODAY FOR MORE INFORMATION ON ANY OF OUR CONVEYOR SYSTEMS

LAKEWOOD PROCESS MACHINERY **Clamshell Transfer Conveyors**

Easily elevate clamshells from a filler to a packing table

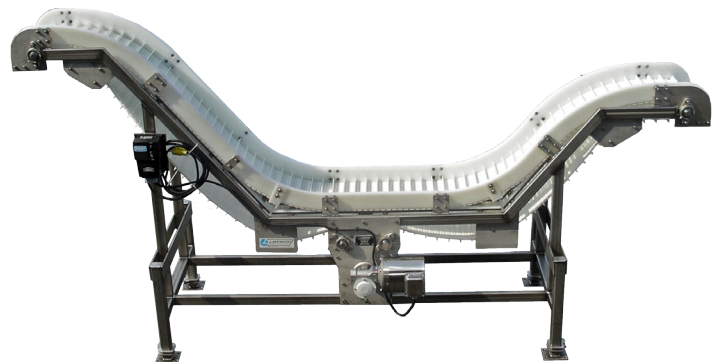
- **Crank handle height adjustment (No tools necessary)**
- **Easy hand-operated angle adjustment (No tools necessary)**
- **Easy changeover from right hand to left hand**
- **All stainless steel construction / stainless motor**
- **Intralox flush-grid belting**
- **Variable speed control included**



LAKEWOOD PROCESS MACHINERY **Gull Wing Conveyors**

Keep two fillers each setup for a specific clamshell size and simply reverse the Gull Wing Conveyor to change container sizes

- **Bidirectional belt**
- **Accepts almost any size grade belt**
- **All stainless construction**
- **Cleated plastic Intralox belt**
- **Conveyor built to reach the hopper height on fillers in a small amount of space**



LAKEWOOD PROCESS MACHINERY **Box / Container Turn Conveyors**

Turn boxes / clamshells / lugs 90 degrees with a Lakewood Turn-Conveyor

- **All stainless steel construction**
- **Custom widths and lengths available**



LAKEWOOD PROCESS MACHINERY **Custom Transfer Conveyors**

We understand the challenge of putting together or adding on to your own packing line within the constraints of an existing facility. With Lakewood's endless transfer conveyor options, you have the opportunity to put your line together any way you want. We are more than happy to accommodate customers in need of custom conveyor systems - call for more information on what we have to offer!

PUSH THRU LUG & CONTAINER WASHER

QUICKLY FLUSH AWAY LOOSE DEBRIS & SANITIZE FIELD CONTAINERS



Push Thru Lug Washer

- Includes initial wash section, and rinse section
- Includes adjustable guide rail system
- Includes easy-access drain plug
- Includes sieve screen for debris removal

The container is positioned upside-down onto the lug washer's infeed guide rail section. As a second container is staged on the lug washer's infeed section, the first container is pushed through the wash manifold where the container is flooded from above and below. No corners or crevices are untouched. The water and debris that comes off of the container is screened through a sieve into a reservoir and recirculated. The containers exit the opposite end of the conveyor onto an accumulation zone.

Push Thru Lug Washer Capacities

* Push Thru Lug Washer Capacities (Lugs per hour)

Dependent on speed of personnel

* Capacities listed above are greatly dependent on the container size you are washing. Capacities listed are for 24" long lugs.

Push Thru Lug Washer Options

Push Thru Lug Washer Options

Sanitization Option (chemical pumps, storage, manifolds)

Lug Rack Mount

Heated Water

Exit End Option (lug rotator bar / lug collection conveyor)

Exit End Mount
Add-on



(See page #'s 39-40 for all of our
lug washer features and options)

Shown with Picking Bucket
Guide Rail Setup (Included)

POWERED THRU LUG & CONTAINER WASHER

LAKEWOOD
PROCESS MACHINERY

CONTAINER WASHERS

QUICKLY FLUSH AWAY LOOSE DEBRIS & SANITIZE FIELD CONTAINERS



Powered Thru Lug Washer

- Includes initial wash section, and rinse section
- Includes adjustable guide rail system
- Includes easy-access drain plug
- Includes sieve screen for debris removal
- Includes exit end lug rotator / collection conveyor

The container is positioned upside-down onto the lug washer's conveyor on the infeed end. The conveyor carries it through the wash manifold where the container is flooded from above and below. No corners or crevices are untouched. The water and debris that comes off of the container is screened through a sieve into a reservoir and recirculated. The containers exit the opposite end of the conveyor onto an accumulation zone.

Powered Thru Lug Washer Capacities

* Powered Lug Washer Capacities (Lugs per hour)

Apprx 900 lugs per hour

* Capacities listed above are greatly dependent on the container size you are washing. Capacities listed are for 24" long lugs.

Powered Thru Lug Washer Options

Powered Thru Lug Washer Options

Sanitization Option (chemical pumps, storage, manifolds)

Lug Rack Mount

Heated Water

Variable Speed Controls

Lug Rotator Bar

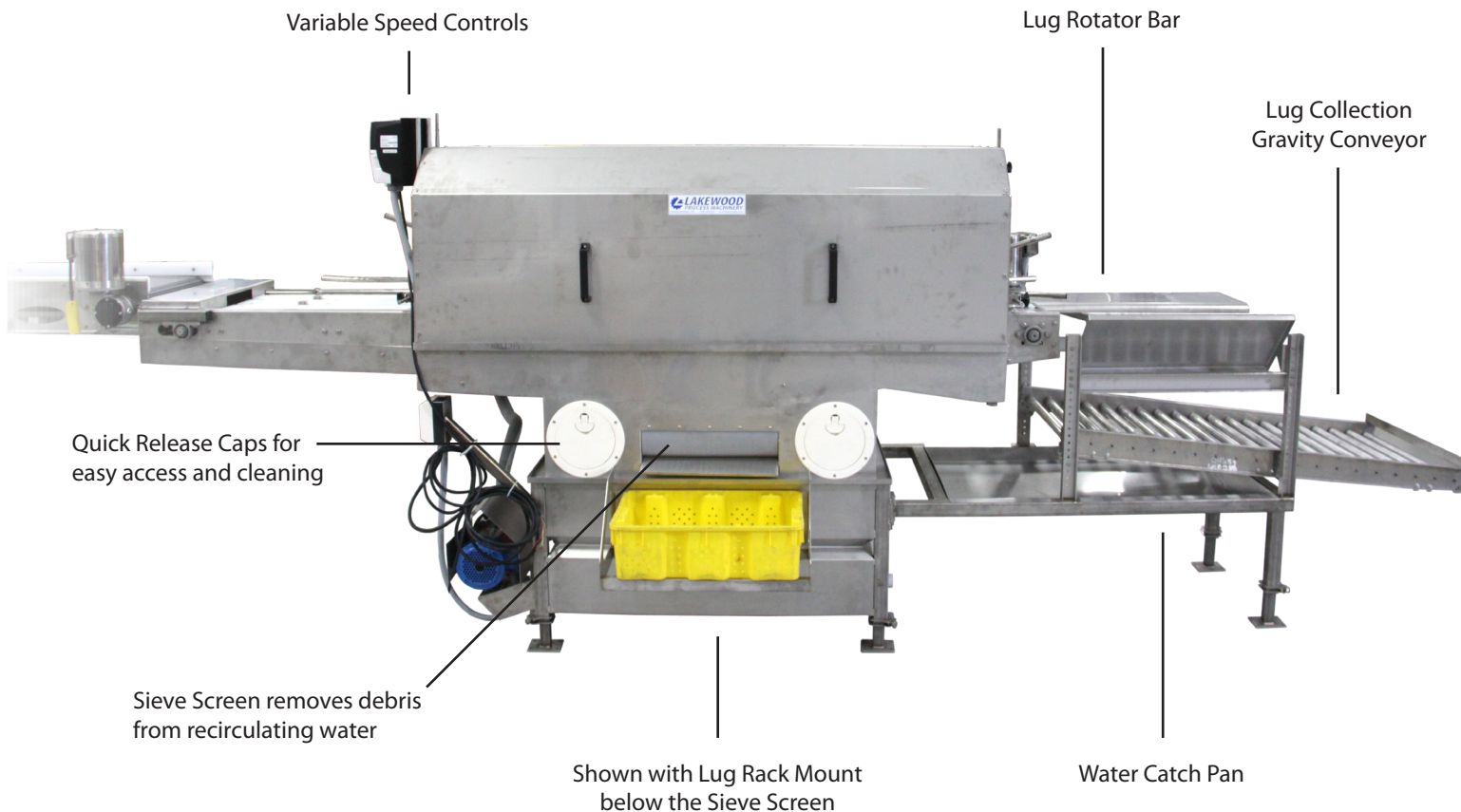
Lug Collection
Gravity Conveyor

Quick Release Caps for
easy access and cleaning

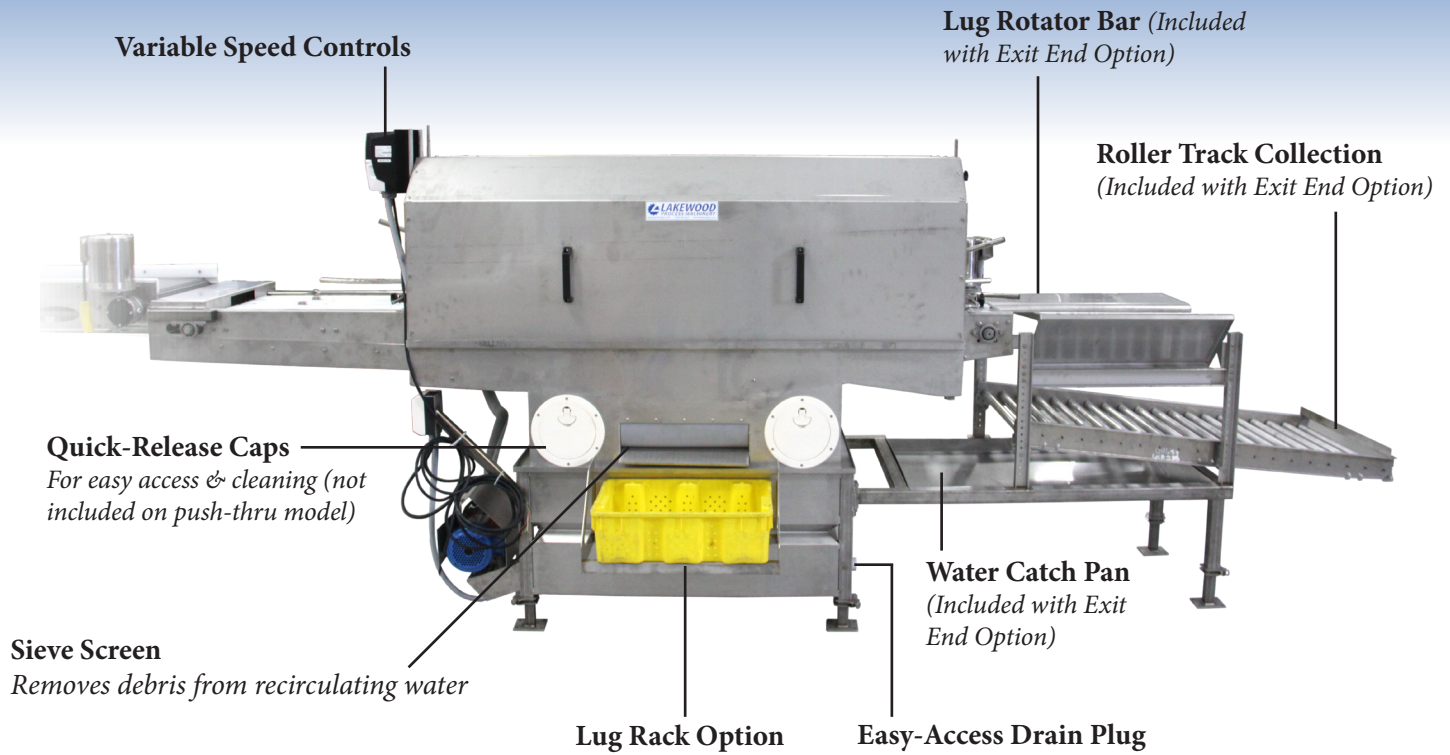
Sieve Screen removes debris
from recirculating water

Shown with Lug Rack Mount
below the Sieve Screen

Water Catch Pan



(See page #'s 39-40 for all of our
lug washer features and options)



Partition Wall
Separates initial wash section and sanitizing / rinse section

Sanitization Option



Rinse Bar
Includes spray nozzles on all sides



Powered Thru Lug Washer

- Includes powered conveyance system for automated 'powered-thru' wash
- Includes Variable Speed Drive for conveyer speed
- Includes Initial Wash Section, and Rinse Section
- Includes Quick-Release Caps for enclosed water storage with easy access
- Includes Exit End Option (Includes Lug Rotator Bar, Roller Track Collection, and Water Catch Pan)
- Includes Adjustable Guide Rail system
- Includes Easy-Access Drain Plug
- Includes Sieve Screen for debris removal

Add-on Options Available:

- Sanitization Option (Shown) includes sanitization chemical pumps (chemicals not included), Mount for 5 gallon chemical storage containers, and an added sanitization spray manifold within the wash booth
- Lug Rack Mount
- Heated water

Push Thru Lug Washer

- Includes Initial Wash Section, and Rinse Section
- Includes Adjustable Guide Rail system
- Includes Easy-Access Drain Plug
- Includes Sieve Screen for debris removal

Add-on Options Available:

- Sanitization Option (Shown) includes sanitization chemical pumps (chemicals not included), Mount for 5 gallon chemical storage containers, and an added sanitization spray manifold within the wash booth
- Lug Rack Mount
- Heated water (also add's Quick Release Caps for enclosed water storage with easy access)
- Exit End Option (Includes Lug Rotator Bar, Roller Track Collection, and Water Catch Pan)