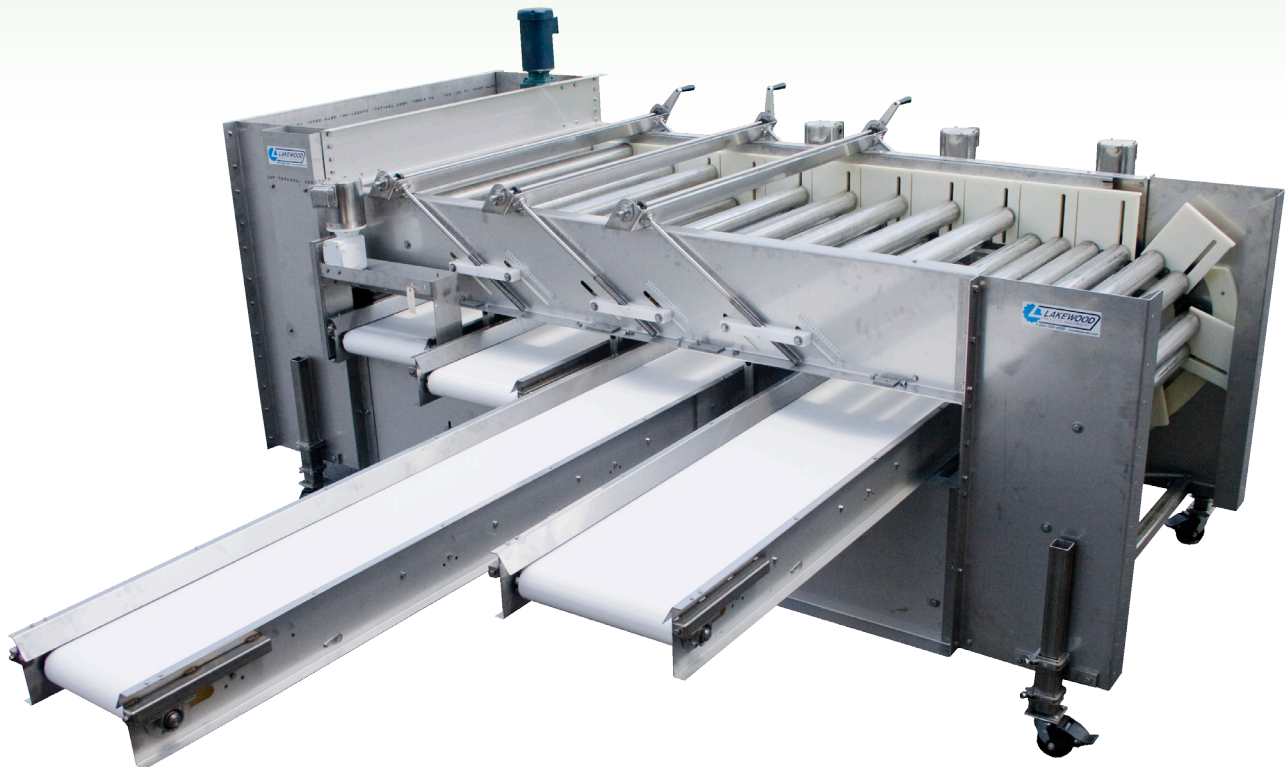




# **LAKEWOOD**

**PROCESS MACHINERY**

## ***Vegetable Packing Equipment***



1.800.366.6705

[info@lakewoodpm.com](mailto:info@lakewoodpm.com)

[www.lakewoodpm.com](http://www.lakewoodpm.com)



## Lakewood Process Machinery, LLC

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 the 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 harvesting, 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.*



## *Catalog Index*

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# Brush Washer

## How It Works

Fruit or vegetables are fed into the brushes at the infeed end. As more product enters the brusher bed it forces the fruits / vegetables to advance and tumble, exposing all the surfaces to the brushing, spray washing, waxing, or drying action if equipped with the appropriate options.

## Available Options

- Hot or cold water wash
- Forced air and/or dewatering brushes
- Wax applicator
- Scrubbing brush action with alternate brush speed control
- Stainless steel frame
- Collection pan with drain

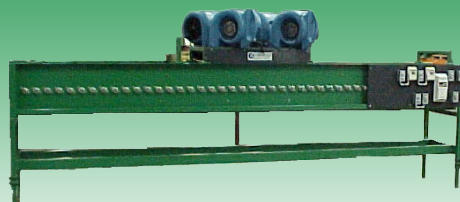


**MODEL # 40504**

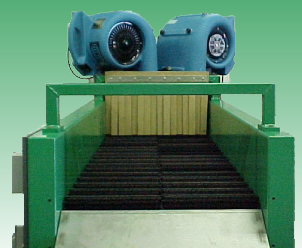
## Features

- Smooth internal surfaces
- Long lasting brushes
- Modular components
- Adjustable height
- Hex drive shafts
- Easy change brushes

## Other Models Available!



**MODEL # 40500**







Design   Machining   Fabrication   Service   Parts

## Easy-to-clean Conveyors

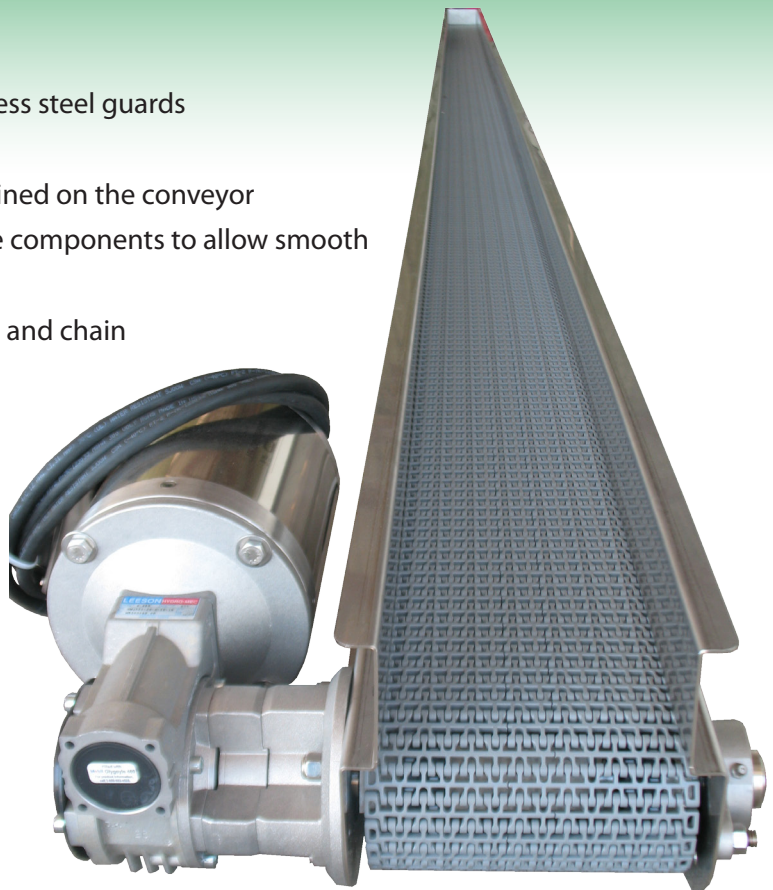
*Lakewood's line of standard and custom conveyors is sure to meet your needs for almost any application. Our conveyors are built to your specifications and are available in any width or length, and can be installed for flat-running or elevating applications.*

### Features

- Stainless steel tube frame with formed stainless steel guards
- Telescopic legs for height adjustment
- Removable side guards keeps product contained on the conveyor
- Conveyor discharge is free of frame and drive components to allow smooth product flow
- Shaft-mounted gear motor eliminates chains and chain guards
- Durable composite housing pillow block bearings with caps withstand the elements and reduce maintenance

### Available Options

- Contact us for a variety of drive motor options
- Made to order for any width or length to suit your needs



***Conveyors can be made-to-order for any width or length to best suit your specific needs!***

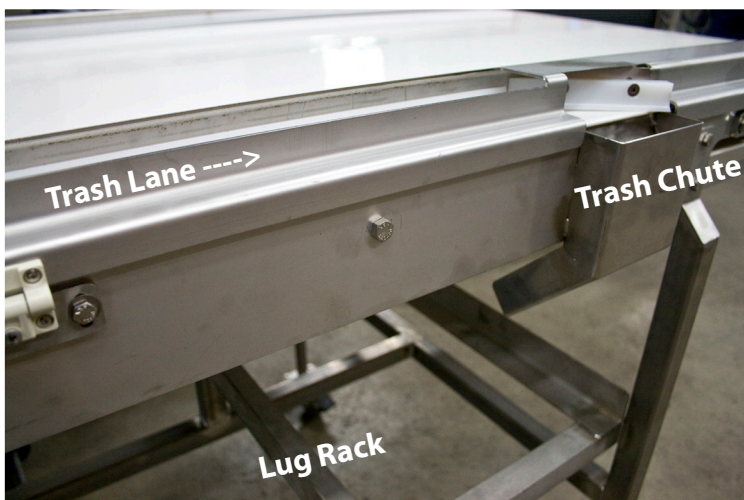
## Flat Inspection Conveyor

### MODEL # 10149

*Simple flat sorting conveyor used for small fruits like blueberries, cranberries, grape tomatoes, or other similar products.*

#### How It Works

Product carries on the conveyor belt where people stand along each side and visually inspect the product for defects. Defect product is manually removed and dropped into the trash lane along the edge of the belt. Good product discharges off the end of the belt while defects are wiped off through a trash chute and into a lug before they reach the end of the conveyor.



#### Features

- 30" wide x 18' long main grading area
- Easy wipe-clean design (Main conveyor and 3" trash lanes are all on the same belt)
- All stainless steel construction including bearings and motor
- Non-staining smooth rubber belt
- Trash collection "Lug Rack" for 30lb blueberry lug
- Adjustable legs to accommodate various heights

#### Available Options

- Casters
- Plastic link or wire mesh sprocket driven belts 24" - 38" (when not equipped with casters)
- Variable speed
- Wider / longer models are also available

# Expanding Roll Sizer

## MODEL # 14100

*The Expanding Roll Sizer (EXR) is one of the most versatile sizers available. Not only is it capable of sizing many different kinds of fruits and vegetables, but it is also capable of sizing into as many as ten size categories simultaneously*



### How It Works

Product is conveyed onto the EXR bed. The unique rotation of the rollers singulates the product for accurate sizing. As product moves down the sizer bed, the distance between the rollers expands, allowing product to fall through to the exit conveyors. The sized product can then be conveyed either to the right or to the left to the next processing station

### Features

- Sizing adjustments are made independent of one another, allowing you to change the size of your product on each conveyor without affecting the sizes on adjacent conveyors
- Sizing adjustments are made by the simple turn of a crank; this can be done during operation or while the machine is stopped
- Sizing range of 1/4" to 6"



### Available Options

- 3-10 exit conveyors designed to accommodate then number of size categories desired for your product or to fit your product flow requirements
- Adjustable height to fit your specifications





# Expanding Roll Sizer

Model # 72000



*"I had high expectations to find one machine that would size out tomatoes, pickles, and cucumbers in a gentle, high volume environment. The Lakewood EXR sizer, with it's adjust-on-the-run ability, exceeded all of my expectations, Period!"*

**Fred Leitz**

**Leitz Farms / Sodus Michigan**



## Manual Load Weight Fillers

### Model # 32100

#### How It Works

Product is conveyed into the hopper and drops through to the container. There is a two stage throttle hopper which meters final product into the container, meeting exact weight requirements

#### Features

- Fills containers by weight up to 70 lbs
- Manually load and unload boxes from the scale
- Drop through filling style



### Model # 33050

#### How It Works

Product is conveyed into the initial filling hopper. Product is released and flows across the transfer tray and through the secondary hopper into the containers below. As the weight approaches the final fill weight the metering feed slows down for accurate filling every time.

#### Features

- Fills up to 10,000 lbs per hour
- Gentle filling for fragile products
- "No Box - No Fill" technology
- Belt or vibratory transfer tray





## ***IQF Product Box Filler***

### **MODEL # 33033**

*This versatile box filler maximizes production with its unique flow through design. The IQF accepts boxes and containers of many different shapes and sizes. Its gentle product handling and low drop height make it ideal for fragile products.*

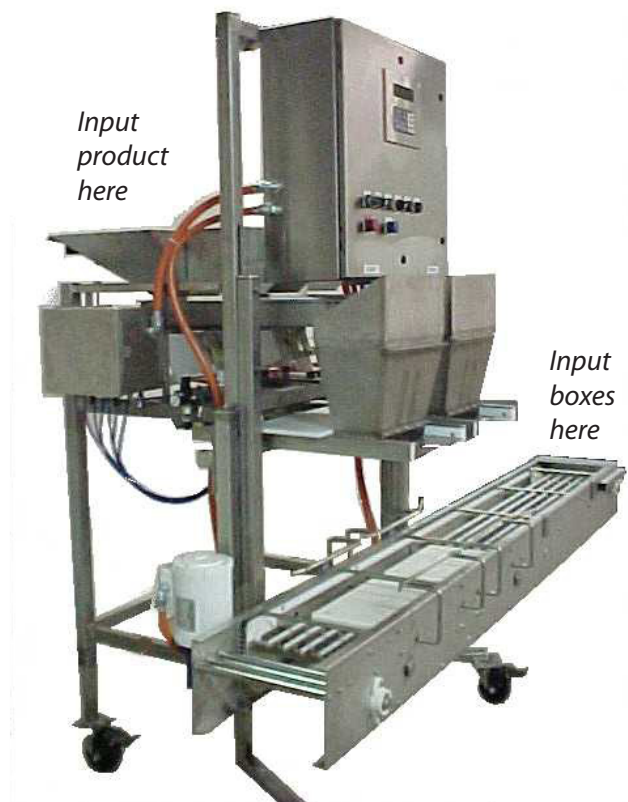
### **How It Works**

The product is conveyed into the initial filling hopper. Product is released and flows across the transfer tray and through the secondary hopper into the containers below. As the weight approaches the final fill weight the metering feed slows down for accurate filling every time.



### **Features**

- Fills up to 10,000 lbs per hour
- Containers automatically advance under fill heads
- Available with 1-6 filling heads
- “No Box - No Fill” technology
- Belt or vibratory transfer tray



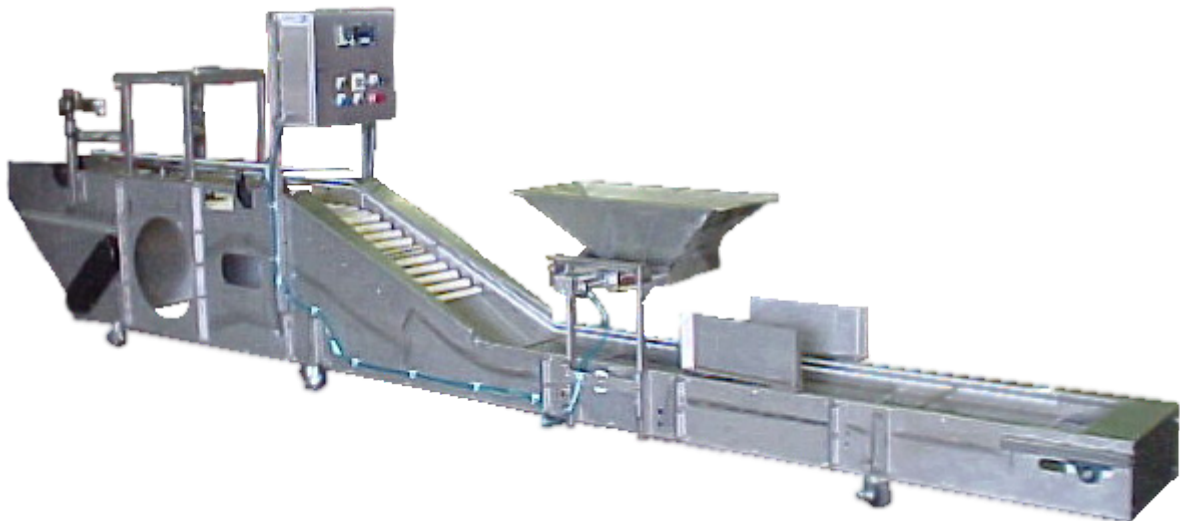
# Net Weight Box Filler

## MODEL # 32000

*An efficient system for bulk filling applications, this weigher comes with a variety of optional add-ons creating a flexible machine which easily fits your production and line space requirements*

### How It Works

Self indexing conveyor moves the empty container under the filling hopper. Product is conveyed into the hopper and drops through to the container. There is a two stage throttle hopper which meters final product into the container, meeting exact weight requirements. When box is full it is conveyed to the next station.



### Features

- Fills containers by weight up to 70 lbs
- The modular design allows flexibility and a variety of add-ons including a closing and taping section
- Indexing conveyor moves boxes on and off the scale automatically

## Clamshell Checkweigher

### MODEL # 60000

*The Checkweigher quickly and accurately ensures packages meet fill weight requirements by checking the final weight of the filled product*

#### How It Works

Full clamshells flow over the weighing scale. The scale checks the weight of the clamshells to the specified weight. Out of weight-range containers trigger an indicator light and are removed from the line.



#### Features

- Weighs up to 150 containers per minute
- Bright LED screen displays last weight and set-point functions
- Enter weight ranges on the easy-to-use keypad
- Adjustable in-feed and out-feed height
- Stainless steel wash down design
- Weighs products from 100 grams to 10 lbs

**2010 Best Seller**

## Rotary Packing Table

### MODEL # 17100

*Efficient method to accumulate product or packages for case packing, bagging or sorting applications.*

#### How It Works

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



#### Features

- Stainless steel easy clean design
- 110 Volt
- Adjustable height 26" - 36"

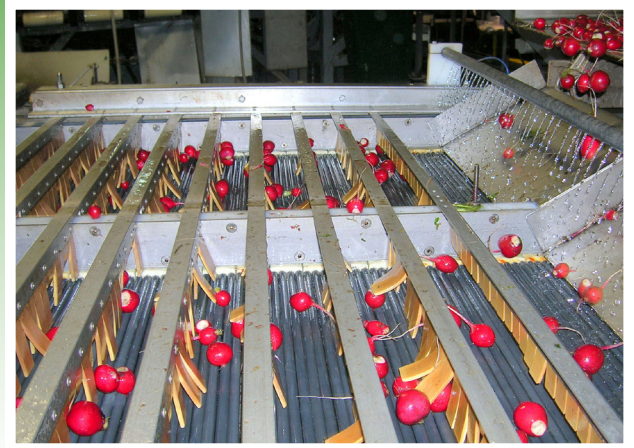
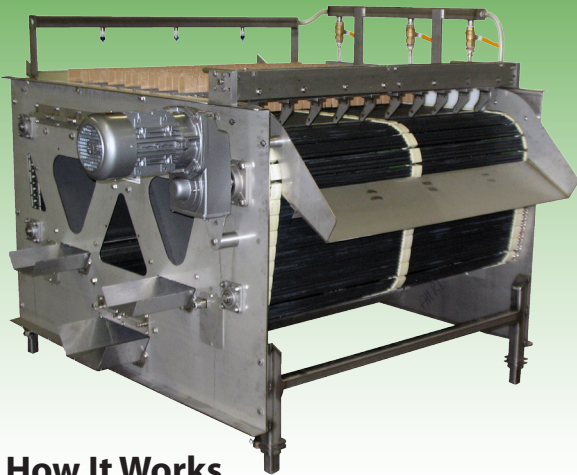
#### Available Options

- Casters
- Choose 4' or 5' solid plastic top
- Diverter arm to push product away from outer edge
- Stationary or rotating containment rail around table perimeter



## Radish Detailer

*The Radish Detailer is the quickest and most efficient way to remove tails from radishes of any size. Our unique design removes the tail from freshly picked radishes without damaging the product. This time-tested piece of machinery has a proven track record for over 10 years.*



### How It Works

Radishes are conveyed onto the detailer bed where they are washed and dewatered. Radishes are conveyed through a series of flaps to a specially-designed knife that cuts the tail off of the radish without damaging it. The radish tails fall onto a conveyor underneath the detailing bed, where they are removed by your choice of a water-flush system or a trash conveyor.

### Available Options

- Tail removal trash conveyor
- Water-flushing tail removal system

### Features

- Rubber covered alignment rods carefully handle radishes, minimizing damage to product
- Replacement alignment rods available at a low cost for inexpensive maintenance
- Removable top for easy cleaning and maintenance
- Suitable for high-volume applications: Capable of handling up to 18,000 lbs/hr of product



## Radish Harvester

*LPM's Radish Harvester allows you to efficiently harvest your produce quickly and cleanly. The operator location provides a perfect view for flawless harvesting. The system is custom-built to suit your needs; it is available with a custom number of harvesting heads, and can be designed to accommodate nearly any tractor.*

### How It Works

The gathering heads lift the radishes by their tops with the help of an undercutting blade. The radishes are then cut loose from their tops with a cut-off blade. The radish tops are discharged to the side while the radishes drop onto a load-out conveyor.

### Features

- 4-wheel hydraulic drive
- High strength extruded belt profile:  
Outperforms standard V-belt designs  
and ensures maximum durability
- All-hydraulic drive system
- Side discharge for radish tops
- Diesel power unit of your choice
- Rear-wheel steering

### Available Options

- Number of harvest heads
- Tow bar for trailer
- Track-mounted system designed for wet conditions
- Custom installation



# Celery Harvester

## *Model 9002*

### Features

- Three point mounted version
- Easy to take off tractor
- Used for fresh or sliced celery
- PTO driven hydraulics
- Gage wheels hydraulically adjust height of butt cut
- Top cutting blade trims tops
- Load-out conveyor adjusts up, down, in and out to fill trailer



## *Model 9701*

### Features

- Self-propelled version
- All the features as model 9002
- Head and Load-out conveyor will shift to left side and reverse to right side to enable harvesting from either direction in the field.
- Saves costly "dead heading" in long fields





# High Clearance Tractors

## How It Works

We take standard brand name tractors into our shop - we design, fabricate, and mount new chain driven axles and steering front ends to provide high-clearance under the belly of the tractor.

## Features

- Heavy duty chain drive cases
- Heavy duty lower drive axle
- Long lasting Timkin bearings
- Wheel spacing to your specifications
- Tire sizes to your specifications

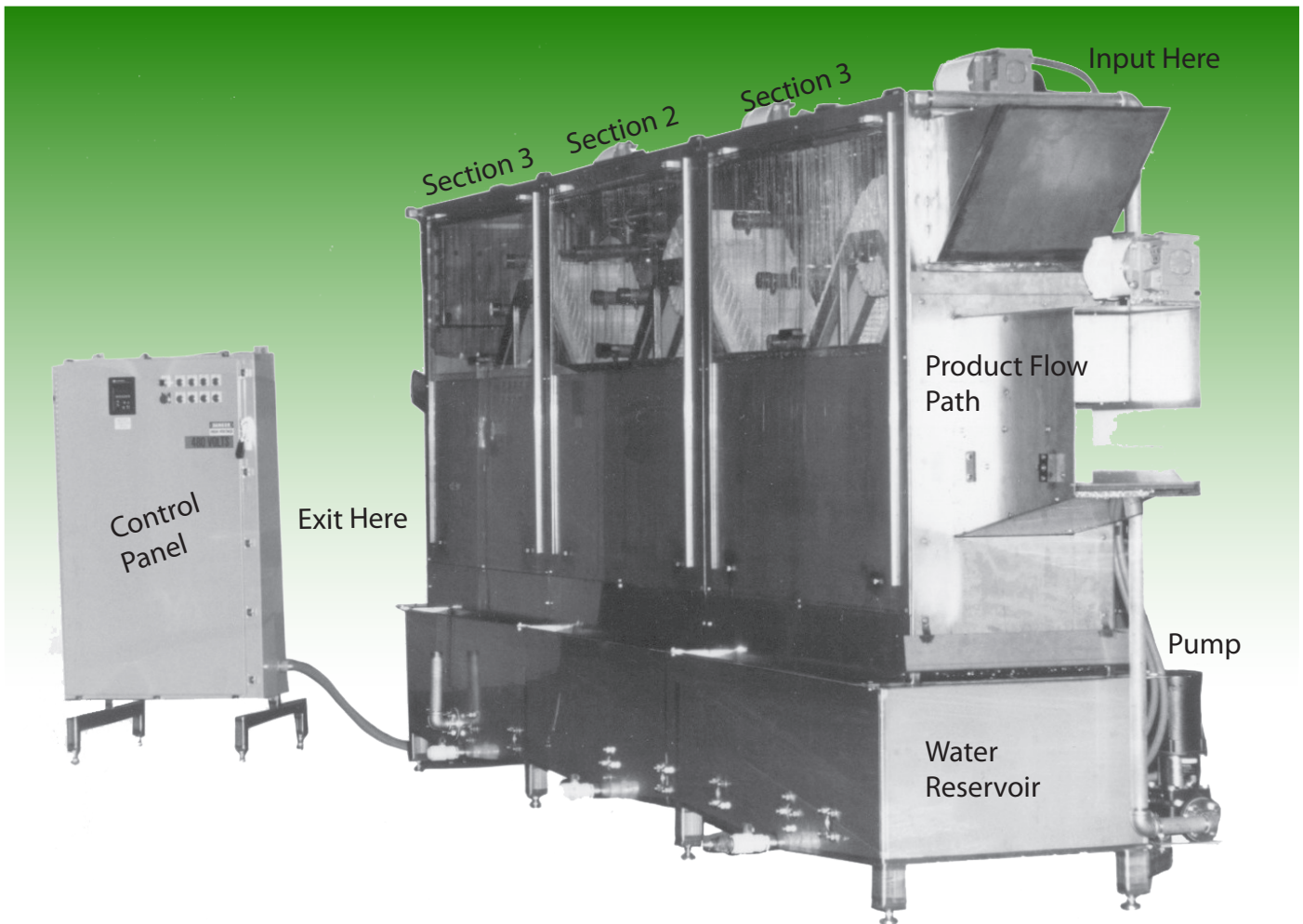
## Uses

- Mounting Root under cutting blades
- Mounting digging machines
- Mounting harvesting machines
- Mounting custom designed machinery to fit your specific needs



**Series 8000**

## *High Pressure Washer*



### **Application:**

The 'Contraflow' fruit and vegetable washer is a high powered spray washer, used to remove herbicides, pesticides, fertilizers, and dirt residue from the surface of a wide variety of fruit and vegetable products. Lakewood Process Machinery was systems are available for lab and production applications.

### **Typical Products:**

Apples / Cherries / Tomatoes / Cucumbers / Radishes / Citrus Products / Dates / Garlic / Melons / Lemons / Mangos / Onions / Potatoes / Celery / Peppers / Pears / Peaches / Beans ... and many more!

## Container Washer

### MODEL # 42000

*Quickly flush away loose debris and sanitize field containers. Various container sizes can be accommodated.*

#### How It Works

The container is positioned upside-down onto the conveyor at the in-feed end. The conveyor carries it through the wash manifold where it is flooded from above and below. No corners or crevices are left untouched. The water is screened through a sieve into a reservoir and re-circulated. The containers exit the opposite end of the conveyor onto an accumulation zone.



#### Features

- High volume, 50PSI water flow, thoroughly washes all container surfaces
- Containers travel at a continuous rate through the nozzles
- Stainless steel construction
- Debris continuously filtered out of water

#### Available Options

- Chemical dosing and monitoring system
- Container return system enables 1 person to feed washer and stack cleaned containers
- Custom heights and conveyor configurations

New model includes a Lug Rotator mount (helps shake water loose after wash)





## Stone Catcher & Pre-Washer

### MODEL # 13400

*LPM's Stone Catcher & Berry Pre-Washer is an ideal component for small vegetable and berry packing lines. It effectively washes product and removes heavy debris such as stones, nuts, and bolts from the flow of product.*

#### How It Works

Water is pumped over the surface of the flume pan, and the product is conveyed into the water flow. The product is rinsed and carried by the water flume to the main conveyor, while heavier objects are trapped in the collection troughs for later removal. The water continues through a hydro-sieve where it is filtered and then re-circulated.

#### Available Options

- Sanitizer system: pumps chlorinated solution through the water for product washing
- Custom design for specific applications



#### Features

- Micro-slatted hydro-sieve screen effectively filters water, allowing it to re-circulate
- Easy clean design
- Compact size

## ***Cleaning & Separating Tank***

*Washing and removing debris from product is an essential part to any processing line, which is exactly what LPM's water tank accomplishes. What sets LPM's water tank apart from the competition is it's unique all-stainless design, which eases cleaning and reduces microbial build up.*

### **How It Works**

The tank is filled with chlorinated water (or another type of sanitizer). Product enters the tank at the infeed end. There is a continuous moving mesh conveyor under the water that carries product that sinks toward the discharge end. Small debris that comes off of the product settles through the mesh belt and is retained in the bottom of the tank. Light debris will rise to the surface of the water and will discharge from the tank before reaching the exit end of the tank where product continues through the line.



### **Features**

- The unique V-shaped design provides easy cleanup, flushing out the debris during drain-out.
- The low profile keeps the infeed and discharge heights at a comfortable level.
- Berry conveyor dumps excess debris outside of the tank to prevent debris from returning.
- All-stainless steel design.