



**Food Handling &
Processing Solutions**



**Hex Tube
Feeder**



**Food
Processing
Flat Washer**



Turnkey Distribution System



**Length
Size
Grading**



New Box Crusher



**Seasoning, Blending
& Mixing Tumblers**



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www.laytonsystems.com**

Layton Machine Solutions

Snacks, Baked Goods, Cereals, Fruits, Vegetables & Root Crops



Uni-Vibe Conveyor

The vibratory with one-moving-part construction



- Unified one-moving-part construction
- No bulky frame
- Superior vibration isolation
- Single pedestal support
- Efficient electromagnetic drive
- Sanitary design
- Available in several configurations
- For distribution systems, scale feeders, inspection conveyors, transfer feeders, screeners and other vibratory applications
(Comes in two formats: Micro or Standard)

Rapid Return: Horizontal Conveyor

True linear motion for gentle product handling



- No-lift "gentle" horizontal product flow
- Pan/drive only design
- No frame required
- Simple castor/pan mount
- Incorporates mechanically-driven, totally enclosed drive area
- Dynamically balanced to eliminate vibration transmission to structure
- Lengths to 130 feet with single drive
(Comes in two formats: Micro or Standard)

Super Direct: Frame-less Vibratory Conveyor

Extremely sanitary with a low-maintenance design



- Frameless
- No fiberglass with less wear parts
- No exposed bearings, belts, or pulleys
- Incorporates mechanically-driven, totally enclosed out-of-balance motors
- Well isolated to eliminate vibration transmission to structure
- Dynamic braking with VFD
- Structure design to reduce the transmission of vibration

Triathlon Conveyor

The longest, highest capacity, and most durable design vibratory in the market place



- The "longest" vibratory distance with a single drive
- The "fastest" vibratory product travel speeds for the highest capacities
- The most "durable" vibratory design for the heaviest duty applications
- Unique cushioned drive system for low torque start up
- Well isolated frame system for minimal structural vibration
- Proven long-term reliability



Super Flow: Vibratory Conveyor

A simple, reliable, and clean design

- Isolated frame-driven conveyor
- Long conveyor runs up to 30 feet
- No exposed bearings, belts, or pulleys
- Incorporates mechanically-driven, totally enclosed out-of-balance motors
- Very well isolated to eliminate vibration transmission to structure
- VFD control to achieve high conveying speeds



LMC Magnetic Vibratory Conveyor

Preforms with flexible conveying and low operating costs

- No bearings, belts, pulleys, motors, drive arms
- Simple electro-magnetic coil drive
- Frequency controller with live feedback signal
- Very low maintenance with few moving parts
- Speed controller for regulating product flow
- Excellent stop, start, and demand feed signal



Layton Systems Custom Designed Equipment Platform

- Structure custom designed to meet production floor layout
- Incorporates mechanical systems such as conveyors, scales, seasoning systems etc.
- Includes stairs, elevated walkways, alternating tread devices, and ladders used to access the space
- Optional: Welded or bolted, deck tread style stainless steel or steel
- Meets OSHA standards
- Turnkey Solution



Mass-flow Weight Control Systems

Precisely control product-flow by weight

- Simple and clean "in-line" vibratory feeders
- Accurate continuous "load cell" weighing
- An alternative to weigh belt type systems
- No belt tracking, tensioning, or product entrapment
- Magnetic drives and isolated load cells with controls, ensures smooth, reliable, and repeatable results
- Custom designed systems to feed processing seasoning systems or blending applications



Ribbon Wall Elevator Conveyor

Designed to transport product from one level to another

- Constructed in Food Grade Quality from T-304 stainless steel with the exception of selected drive components.
- The conveyor Dimensions are based on Production Specification to include Width x Height x Length and Discharge Height.
- The Volta belt consists of ribbon sidewalls, scooped flights with an indent on each side depending on the product specifications.
- Smooth homogenous non-porous surfaces prevent bacteria build-up resulting in maximum product shelf-life and designed for to prevent product sticking, considerably reducing waste.



Vibratory “Scarf” and “Hopper Feeders”

- Simple, reliable custom feeders
- Magnetic drives for precise product control
- Scarf spreading feeders for band feeding, seasoning, and blending
- Hopper Feeders for product accumulation and regulation of product flow
- Mounting of units can be on stand, castors, or hangers
- Typical 110/230 volt single-phase variable frequency control



Bucket Elevators

Extremely sanitary with a low-maintenance design

- All stainless steel construction
- Polypropylene FDA roll-over buckets
- Stainless steel chain with Delrin rollers
- Nickel plated sprockets
- In-line or right angle gear drive
- Available in 9, 12, 15, 18, and 24-inch widths
- Stainless steel and UHMW guides
- Bucket thumper for complete unloading
- Safety covers
- Any configuration: S, Z, or C shapes



Seasoning, Blending and Mixing Tumblers

- Continuous formed sanitary lifting flights
- Adjustable discharge angle for product dwell time
- Various drum diameters to match capacity
- Round tube sanitary frame
- Positive trunion drive system
- Locking castors for mobility
- Safety pull cord
- 208/230/460 volt three-phase 60 hertz VFD drivers



Rotary Pack-Off Systems

- Stainless steel table top with plastic flighted incline
- FDA approved coating on all non-stainless steel frame surfaces
- Height adjustable for floor mounts
- Completely wired with easy accessible ON/OFF switch
- Easy access to all moving parts for visual inspection and maintenance
- Stainless steel frame construction
- Lockable casters for easy portability
- Wash down power control and drive
- Variable speed controls



Control Panel

- Panels custom design for your equipment
- Built in Nema 12 or Nema 4 construction
- Simple hardwired or PLC options
- 230/460 single- or three-phase power options
- UL approved

Fruits, Vegetables & Root Crops

Product handling systems for cleaning, grading, sizing, destemming & inspecting lines

sales@laytonsystems.com 503.585.4888 www.laytonsystems.com



Diameter-Sized Grader

Putting the right size potato in the right place is the key to efficiency

- All stainless steel construction
- Pneumatic chain tensioner
- Spray bars and product drapes
- Hex tube feeder
- Distribution conveyor
- Manual operated diverters
- Pump tank
- Pneumatically-operated diverters
- Trash diverters and chutes
- Manually operated gap adjustment
- Safety cage/CE certification
- Electric/chain drive
- Hydraulic drive
- Tapered, flighted, and straight smooth sizing rolls
- 4 ft., 6 ft., and 7 ft.-long sizing rolls
- Support towers and frame work
- 2 to 6 size range



Length Size Grading

Putting the right size potato in the right place is the key to efficiency

- Easy adjustable rolls for multiple sizes
- Simple non-plugging design
- Very cleanable with fewer moving parts than other designs
- No rubber fingers or pockets to clean or break
- High capacity units up to 85,000 lbs. of peeled potatoes (Note: 65,000 lbs./hr. with skin on potatoes)
- Potatoes are sized by length
- E-Z slide grading rolls to change length
- Units available with potato halving machine
- Optional infeed system for maximum capacity Layton Hex Tube Feeder or Layton Super Direct Vibratory Aligner



Hex Tube Feeder

Removes water and fine material while efficiently feeding the full width of the size grader. This is done in a distance of approximately 37 inches while spreading the product from a narrow in-feed up to a 12-lane roll sizer. The Hex Tube Feeder assists in evening out the product flow and prevents surges. Priced about half the cost of a vibratory feeder.

- All stainless steel construction
- Centralized lubrication
- Serpentine chain drive
- 7 hexagonal feed rolls
- Floor stand and waste hopper
- Safety guard with product drape
- In-line gear drive
- Tilt adjustment on stand
- 24", 39", 49", 59", 76" widths

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Tote Dumpers

A simple, reliable, and clean design

- Layton Systems offers a wide variety of tote dumpers from basic standalone units to our lift and seal dumper that contains all of the product in the dump hopper. We have manufactured multiple dumpers integrated into mixed vegetable blending lines and roll back

dumpers to feed scale hoppers.

We also fabricate high lift and dump units that elevate the tote up to 20 feet before dumping. Our lift and seal dumper features an integral hydraulic fluid reservoir, which allows for easy relocation of the dumper.



Stainless Steel Auger Conveyors

- Open trough design with safety covers
- All stainless, fully welded screws
- Custom diameters and designs for various capacities
- Available with hoppers and casters as pictured
- Externally mounted sealed bearings and drives
- Clean-out ports for easy sanitation



Velvet Air Multi-cleaner Air Cleaner

- **GENTLE OPERATION:** Product is dumped into air vacuum chamber where an air cushion prevents damage by suspending it. While in dump chamber, the product is air scrubbed and swept clean of debris and insects. Product passes through a high velocity vacuum chamber in which a "boiling" action completes the dry cleaning phase.
- **CLEANER ALSO WASHES:** Once the product has been gently vacuum

cleaned, it moves to the water bath to be sprayed by a continuous supply of fresh water. From there it travels across the de-water screen and then is discharged uniformly onto the inspection belt. Vibration (which moves product at controlled rate) is restricted to the pan assembly and is not transmitted to the frame. The 1000 Unit cleans grapes, strawberries, raspberries, cane berries, cherries, olives and other products.



Brush Washer

This unit was designed to gently brush wash fragile food products such as strawberries and a number of other products, to remove light debris such as hair, sand, mud and loose stems. It is constructed of all T-304 stainless steel with nylon food-grade tuft brushes. All bearings are UHMW which do not require any lubrication. Drive is a ½ HP wash down

duty 3-phase motor. It also has 20 fresh water spray nozzles to remove debris.

- Adjustable legs to control angle of decline
- Rod screen discharge chute
- Water catch basin with drain spout



Frozen Blueberry De-stemmer

- For -15 degree frozen blueberries
- Will remove 99.9% stem out of frozen blueberries
- Removes stems and ice crystals
- 8,000 lbs./hr. capacity
- All stainless steel construction
- Dual drive: Auger rotates inside drum
- 208/230/460 volt 3-phase 60 hertz

Fruits, Vegetables & Root Crops

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Mixing & Measuring Unit

The only automatic measuring unit that operates by gravity

- Designed to handle sliced and whole strawberries, fruits, and other products
- Requires no power for measuring the product or for operation of sugar drums
- Can readily be adjusted for any ratio of mix
- Has positive indexing mechanism which prevents double cycling
- Rapid adjustment for sugar baffles is provided



Food Processing Flat Washer

- High volume and high pressure wash
- Holds up to 200 gallons of fresh water with recirculating tank
- Cleans flats better for better product
- High performance, low labor



Frozen Product Box Crusher

- The New Layton Box Crusher is designed to break-up frozen product inside cardboard boxes before further processing. The Box Crusher eliminates back injuries by employees dropping the boxes on the floor to break up the product and can automate the preparation process. The Box Crusher features a T-304

stainless steel construction and nickelplated drive components. The opening on the in-feed end is internally adjustable to crush boxes from 9" to 14" wide and with a maximum box height of 14".



Size Reduction Equipment "De-Cluster Devices"

- All stainless steel construction
- Heavy duty drive package to break frozen clusters
- In-feed hoppers and hoods with safety lock out
- Custom designed for your specific application of totes, boxes, pails and de-clustering of frozen products



Conveyors

- Layton Manufacturing offers a complete line of product conveyors to meet your companies needs. Whether your need is for a simple flat belt or a modular plastic incline, bucket elevator or vibratory, our design team can handle the job.

Our Systems Move...



Baked Goods



Gummies



Cereals



Confectionery



Pasta



**Fresh Cut
Vegetables**



**Fruit, Nuts &
Seed Processing**



Snack Foods



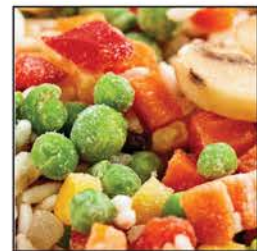
Meat Products



Fish



Poultry



Frozen Foods



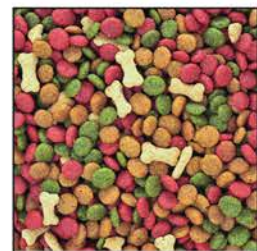
Cheese



**Potatoes &
Root Crops**



Vegetables



Dry Pet Foods



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503.585.4888 • www.laytonsystems.com

Layton Systems, Inc. • 672 Murlark Ave. N.W., Salem, Oregon 97304