

Manufacturers select ITS as their partner.

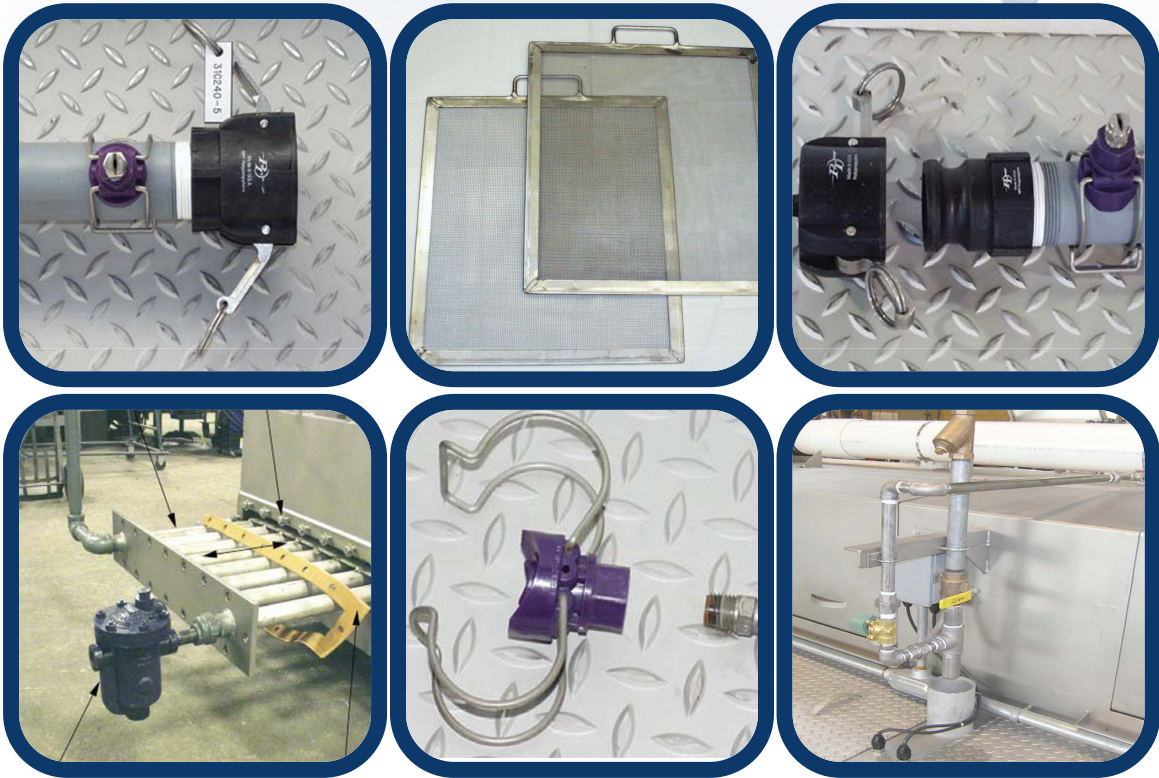
Partnership Philosophy: ITS approaches each project like a Partnership.

Technical Engineering: Drawing from decades of experience in various clean processing solutions, ITS engineering expertise and technical knowledge is unparalleled. Utilizing the best tools for the job, from the latest in engineering software packages to the most advanced control systems to actual field operations results, ITS provides the best solution for the clean processing application. Experts with equipment manufactured by Continental Equipment Corporation and International Thermal Systems.

Standard Washers	Engineered Washers
ProCon Process Conveyor Belt 120 Configurations	Belt Washer
ProCon Monorail 48 Configurations	Cabinet Washer
Case / Crate Washer Single 8 Configurations	Continuous Strip System
Case / Crate Washer Double 5 Configurations	Monorail Washer
Pallet Washer Horizontal	Rotary Drum Washer
Pallet Washer Vertical	

Spare Replacement Parts Service

Our Technical Service Department is the leading source to provide a convenient, simple and cost-effective way to obtain Spare Parts Information and Request for Quotes.



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We deliver process
cleaning technology to
diverse industries.

Partner with ITS for your clean processing needs. Contact a representative today to arrange for an on-site consultation to learn how we can maximize production cleaning efficiencies and minimize energy consumption.

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ProCon™ PROCESS CONVEYOR WASHER



Standard Features of the ProCon™ Process Conveyor Washer

- Flat Wire Mesh Belt with variable Speed Controls
- NEMA 12 rated Control Panel
- Steel or Stainless Steel Construction
- Ambient and Heated Solution Tanks
- Low Water Protection Sensor
- Vertical Solution Pumps
- Removable Chip Basket
- Quick Change Nozzles
- Removable Canopy Access Doors
- Conveyor Extension – Entrance and Exit Vestibule
- Entrance and Exit Curtains

ProCon™ Process Conveyor Wash Systems are designed to satisfy the most difficult part cleaning applications, with 120 standard combinations. The combinations include wash, wash/rinse and wash/rinse and seal and are offered in a wide range of belt widths and part height openings. All canopies, tanks and conveyor belts are constructed of high grade Steel or Stainless Steel for long operating life. The spray manifolds are designed using Schedule 80 CPVC with nozzles evenly spaced around the perimeter of the conveyor belt to provide 360 Degrees of high pressure cleaning impingement.

Wash Stage – Parts are conveyed into the cabinet at a speed controlled by the operator. As the parts enter the cabinet, a water based cleaning solution is applied at high pressure to remove any machine coolants, oils and metal chips. The cleaning solution drains from the cabinet into a heated solution tank located directly beneath the conveyor belt where it passes through a chip basket before being recirculated back to the spray manifold.

Rinse Stage – Upon exiting the wash stage, a rinse stage using high pressure city water or di-ionized water can be added to remove cleaning solutions that remain on the part surface. The water drains from the cabinet into a non-heated or heated solution tank located directly beneath the conveyor belt and its recirculated back to the spray manifold.



Seal Stage – This stage can be added to apply a rust inhibitor or oil based mix to the part surface to prevent corrosion from occurring should there be long delays between manufacturing processes. This is a non-heated stage.

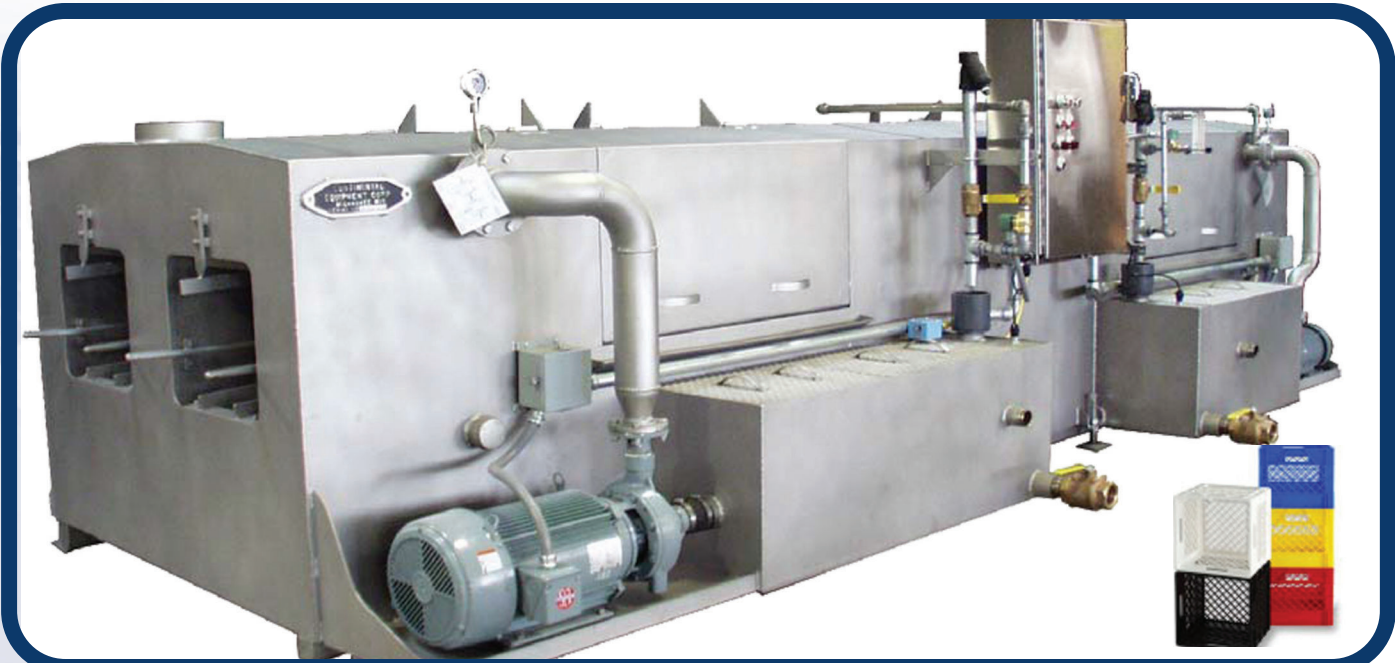
Available Options

Blow-off System: This feature can be added to the exit vestibule of the washer and consists of a regenerative blower motor connected to several air-knives. The air- knives are adjustable and can be targeted at the part surface to remove pockets of water that might form.

Vapor Extraction Exhaust System: This feature can be added to the wash system to route moisture laden air generated during the wash cleaning process to a roof top vent.

Oil Skimmer: The feature provides a mechanical method of removing tramped oils from the cleaning solution.

Additional Filtration: In addition to a chip basket, there are additional levels of filtration available to meet your stringent cleanliness requirements.



Case Washer - Double Lane

The standard Case /Crate Washer, available in a Double or Single Lane configuration, are designed for cleaning dairy and beverage cases, tote boxes, and similar items. Case Washers utilize time, chemicals, temperature and pressure to achieve thorough cleaning.

Exclusive Zig-Zag guide rails expose the leading and trailing end of the cases to powerful sprays. For systems with wheel drives or Push-Thru conveyors, track rails separate the cases vertically.

The high pressure spray cleaning with Vee-Jet nozzles to scour the surfaces, literally stripping away-imbedded soils. In-line filtration is optional. Spray nozzles are positioned to clean all surfaces of the case. Quick disconnect couplers, caps and nozzles make maintenance as easy as possible.

Double filter screens allow one screen to be cleaned, while the other remains in place, protecting the pump and nozzles.

Marine style cleanout doors provide convenient access to the lower tank for cleaning. Large housing doors with mechanical seals (no gasket) provide ample access to the spray-housing interior. Case Washer Systems are available with either a powered or manual conveyors.

We offer eight (8) single lane and five (5) double lane models to meet most cleaning needs.



Case/Crate Washer - Single Lane

Optional blow-off system with optional integrated exhaust system (recommended) is shown above. The large hinged access doors on both sides provides convenient.





Flat Belt Washer

Flat Belt Washers are the most universal type of cleaning machine available. They can be furnished in very basic configurations that can effectively clean the majority of metal parts in all shapes and sizes.

The Belt Washer can also be furnished with material handling equipment to process specialized machined components, furnished in single or multistage designs, and with most popular heating systems.

Spray piping is available in black iron, stainless steel or CPVC materials. The Vertical process spray pumps are available in all iron, stainless fitted or all stainless steel depending on the type of solutions used for the application.

Marine style cleanout doors provide convenient access to the lower tank for cleaning. Large housing doors with mechanical seals (no gasket) provide ample access to the spray-housing interior. Work tunnel openings feature automatic doors that remain closed unless a pallet is passing through, for optimal thermal efficiency.

Design can include standard chain on edge or special fixture type conveyors specific to your product or solution spray equipment in many spray patterns and system pressures.

Standard features include quick disconnects on all spray pipes, clip on nozzles, marine type tank clean out doors, automatic tank liquid level controls, housing access doors, tank extensions with access doors, overflow and tank drain connections, pump protection screens, washer housing exhaust fans, and slopped tank bottoms.

Cabinet Washers are designed for batch production and utilize a powered rotary turntable. Applications for the Cabinet Washer include the general cleaning of parts placed in open wire baskets, frames or just on a table for cleaning various sized casting fabrications or assemblies. For most cleaning applications, the Cabinet Washer System configurations include one or two stage units.

Spray piping is available in black iron, stainless steel or CPVC materials. The Vertical process spray pumps are available in all iron, stainless fitted or all stainless steel depending on the type of solutions used for the application.

The Cabinet Washer construction can include carbon steel or stainless steel tanks, housing, and turn table. The heavy-duty turntables are available from 24in (610mm) to 84in (2134mm) diameter and are a fully welded construction. The turntable assembly includes machined spindle and bearing support components.



Cabinet Washer

Continuous Strip Systems that are high quality multi-stage cleaning systems for processing continuous strip substrate materials.

The process materials can be in coiled or sheet form. Mild steel, any type of sheet metal or aluminum sheet metal is thoroughly cleaned and dried prior to application of paint or other coatings.

Other equipment such as pneumatic door operation, oil removal, filtration, blow off, and chemical controls are also available.



Continuous Strip Washer



Monorail Washer

Monorail Washers are a complete system serving a wide variety of OEM manufacturing applications. It is designed for mass production utilizing an overhead trolley monorail or power and free conveyor.

Typical applications for a Monorail Washer include general parts cleaning and surface preparation for primary or finish coatings.

All equipment is designed specific to the application. System designs include multi-stage units from one stage to three stages for general parts cleaning to five, seven, or nine stage units for phosphating surfaces for painting applications.

Spray piping is available in black iron, stainless steel or CPVC materials. The Vertical process spray pumps are available in all iron, stainless fitted or all stainless steel depending on the type of solutions used for the application.

Marine style cleanout doors provide convenient access to the lower tank for cleaning. Large housing doors with mechanical seals (no gasket) provide ample access to the spray-housing interior. Work tunnel openings feature automatic doors that remain closed unless a pallet is passing through, for optimal thermal efficiency.

Standard features include quick disconnects on all spray pipes, clip on nozzles, marine type tank clean out doors, automatic tank liquid level controls, housing access doors, tank extensions with access doors, overflow and tank drain connections, pump protection screens, washer housing exhaust fans, and slopped tank bottoms.

Rotary Drum Washers are a entire system designed for batch production utilizing a powered rotary drum with an internal helix to transport the parts through the system.

Typical applications for the Rotary Drum Washer are the general cleaning of small parts produced in high production volumes. Metal fasteners, stampings and electrical items are examples of products cleaned in the Rotary Drum Washer. System designs include one, two or more process stages depending on the cleaning application.

Spray piping is available in black iron, stainless steel or CPVC materials. Vertical process spray pumps used in the Rotary Drum Washer are supplied in all iron, stainless fitted or all stainless steel depending on the type of solutions used for the application.

The Rotary Drum Washer construction can include carbon steel or stainless steel tanks and housing. The heavy-duty drum is fabricated from stainless steel perforated or wedge wire materials, and are available in sizes ranging from 18in (457.2mm) to 60in (1524mm) diameter. The drum assembly includes through hardened Chrome Molybdenum steel rings, heavy-duty bearing and support components, and a variable speed electric drum drive system.



Rotary Drum Washer

ProCon™
PROCESS CONVEYOR MONORAIL WASHER



Pallet Washer - Horizontal Configuration



Pallet Washer - Vertical Configuration

The Pallet Washer is designed for optimal cleaning of standard or custom size pallets. The Pallet Washer features one-piece stainless steel tank with rigid base and height adjustable feet. The tank bottom is sloped to large drains for easy tank cleaning.

The high pressure spray cleaning with Vee-Jet nozzles to scour the surfaces, literally stripping away-imbedded soils. In-line filtration is optional. Spray nozzles are positioned to clean all surfaces of the pallet. Quick disconnect couplers, caps and nozzles make maintenance as easy as possible.

The Pallet Washer can process pallets or dunnage up to 16in (406.79mm) Wide x 48in (1219.19mm) High.

High pressure air blower removes and conserves wash solution. The blow-off system features a large air intake filter with dual disposable filters to prevent part contamination and to protect the pressure blower itself. The fan is floor mounted for easy access. The air knives are fully adjustable for both position and pressure.

Double filter screens allow one screen to be cleaned, while the other remains in place, protecting the pump and nozzles.

Marine style cleanout doors provide convenient access to the lower tank for cleaning. Large housing doors with mechanical seals (no gasket) provide ample access to the spray-housing interior. Work tunnel openings feature automatic doors that remain closed unless a pallet is passing through, for optimal thermal efficiency. Pallet Washer Systems are available with either powered or manual conveyors.



Standard Features of the ProCon™ Process Conveyor Monorail Washer

- Monorail Conveyor with variable Speed Controls
- NEMA 12 rated Control Panel
- Steel or Stainless Steel Construction
- Ambient and Heated Solution Tanks
- Low Water Protection Sensor
- Vertical Solution Pumps
- Removable Chip Baskets
- Removable Canopy Access Doors
- Conveyor Extension – Entrance and Exit Vestibule
- Entrance and Exit Curtains

ProCon™ Process Monorail Conveyor Wash Systems are designed to satisfy the most difficult part cleaning applications, with 48 standard combinations. The combinations include wash, wash/rinse and wash/rinse and seal and are offered in multiple part openings. All canopies, tanks and the conveyor assembly are constructed of high grade Steel or Stainless Steel for long operating life. The spray manifolds are designed using Schedule 80 CPVC plastic with nozzles evenly spaced around the perimeter of the product profile to provide 360 Degrees of high pressure cleaning impingement.

Wash Stage – Parts are conveyed into the cabinet at a speed controlled by the operator. As the parts enter the cabinet, a water based cleaning solution is applied at high pressure to remove any machine coolants, oils and metal chips. The cleaning solution drains from the cabinet into a heated solution tank located directly above the tank where it passes through a chip basket before being recirculated back to the spray manifold.

Rinse Stage – Upon exiting the wash stage, a rinse stage using high pressure city water can be added to remove cleaning solutions that remain on the part surface. The water drains from the cabinet into a non-heated or heated solution tank located directly beneath the monorail conveyor and its recirculated back to the spray manifold.

Seal Stage – This stage can be added to apply a rust inhibitor or oil based mix to the part surface to prevent corrosion from occurring should there be long delays between manufacturing processes. This is a non-heated stage.

Available Options
Blow-off System: This feature can be added to the exit vestibule of the washer and consists of a regenerative blower motor connected to several air-knives. The air- knives are adjustable and can be targeted at the part surface to remove pockets of water that might form.

Vapor Extraction Exhaust System: This feature can be added to the wash system to route moisture laden air generated during the wash cleaning process to a roof top vent.

Oil Skimmer: The feature provides a mechanical method of removing tramped oils from the cleaning solution.

Additional Filtration: In addition to a chip basket, there are additional levels of filtration available to meet your stringent cleanliness requirements.