



## MONORAIL WASHER

### Standard Features of the Monorail Washer

- Multi-Stage Configuration
- NEMA 12 rated Control Panel
- Carbon Steel or Stainless Steel Construction
- Ambient and Heated Solution Tanks
- Low Water Protection Sensor in heated tanks
- Vertical Solution Pumps
- Large capacity solution tanks have sloped bottoms for easy discharge for cleaning.
- Stainless steel debris screens between the main solution tank and the pump intake to prevent motor damage.
- Large hinged canopy access doors allow for easy cleaning of washer interior and solution tank(s).

The Monorail Washer is a universal 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.

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 sloped tank bottoms.

Equipment construction can include carbon steel or stainless steel tanks and housings. Spray piping can be furnished in black iron, stainless steel or CPVC materials. Vertical process spray pumps used in these systems are supplied in all iron, stainless fitted or all stainless steel depending on the type of solutions used for the application.

While the natural gas combustion heating system is common, other heating methods are also available.

A pre-wired electrical control system is included with every Monorail Washer System. A NEMA 12 enclosure is used to house NEMA or IEC electrical components including the main disconnect switch. The door mounted push buttons, indicating lights and temperature controls are also included. We can provide special electrical controls such as programmable logic control (PLC) systems including programming and documentation.

Optional equipment such as oil removal, filtration, blow-off, and chemical controls are also available.

Each Industrial Monorail Washer System is tested for performance in function, accuracy, safety systems, and temperature uniformity.

Our Technical Service Department provides international support for ALL makes and models of thermal and clean processing equipment.

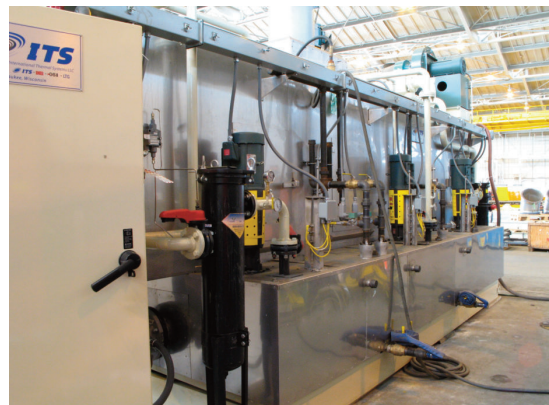
The Monorail Washer will carry an 18-month extended manufacturer's warranty from the date of shipment.

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## TECHNICAL BULLETIN

Specification	Monorail Washer
<b>Configuration</b>	Multiple Stage Configurations One or Three Stage Units for General Parts Cleaning Five, Seven or Nine Stage Units for Phosphating Surfaces in Painting Applications
<b>Material Handling</b>	Overhead enclosed track, monorail and power and free
<b>Pump</b>	Solution pumps are vertical discharge type allowing easy removal for maintenance without draining tank.
<b>Stages</b>	Stages are application specific and may include pre-rinse, pre-wash, wash, rinse and seal.
<b>Heated Stage</b>	Pre-wash, wash, and treatment via externally mounted plate and frame heat exchangers.
<b>Process Tank</b>	All tanks can be constructed with Carbon Steel or Stainless Steel, Continuous Welded, and incorporate the necessary Baffles for proper fluid flow.
<b>Spray Piping</b>	Carbon Steel, Stainless Steel, PVC or CPVC
<b>Fresh Water Manifold</b>	Fresh Water System
<b>Washer Housing</b>	The Housing for all stages can be fabricated with Carbon Steel or Stainless Steel.
<b>Washer Access</b>	Access doors will be provided in drain areas between stages but can be placed to accommodate any requirements.
<b>Exhaust</b>	Conventional Tube Axial exhaust fans in Fiberglass, Carbon Steel or Stainless Steel construction.
<b>Power Source</b>	Main Power Supplies from 208 to 690 Volt AC, 50 and 60 HZ Control Voltage 24 Volt DC or 120 or 220 Volt AC
<b>Heat Medium</b>	Electric, Gas, LPG, Hot Water and Steam
<b>Control System</b>	Standard Relay Logic optional PLC Control
<b>VFD</b>	Fixed speed or VFD Control



### Optional Equipment:

- Pneumatic Door Operation
- Oil Removal
- Filtration
- Blow-off
- Chemical Controls

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