



# Washers

## Multi-Stage Pre-treatment Systems and Parts Washers

### Process

Multi-Stage Surface Preparation Systems are utilized for metal and plastic substrates. These systems are used extensively to prepare surfaces prior to painting or to clean parts after machining or forming operations.



The number of stages and the design of a Washer System depend upon the customers' finish specifications and the complexity of the parts to be washed.

A Global Finishing Solutions Washer can be designed and customized as a spray, immersion, or combination of both types.

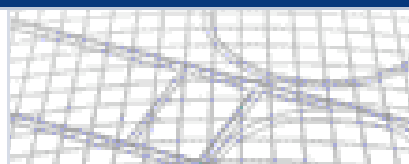
Most basic Washer Systems include a chemical cleaning stage, followed by water rinse, and seal rinse stages. Per specification requirements, the washer may include the addition of phosphate stages, additional rinse stages, and deionized or surfactant final rinse stages.

### APPLICATIONS:

Typically, Global Finishing Solutions Washers are used in the electrocoat process and pre-treatment of Class A finished surfaces. Parts requiring high corrosion protection such as: exterior automobile parts, aluminum wheels, appliances and office furniture may require up to nine washer stages. Parts that have less stringent requirements may have only five or six stages.

Washers are used to clean and prepare substrates prior to powder and liquid coating, electrocoating and autophoretic coating, Global Finishing Solutions Washers are used before or after machining or forming of component parts.

Global Finishing Solutions also designs and builds Blow-Off Units and Dry-Off Ovens to completely dry parts after washing operations.



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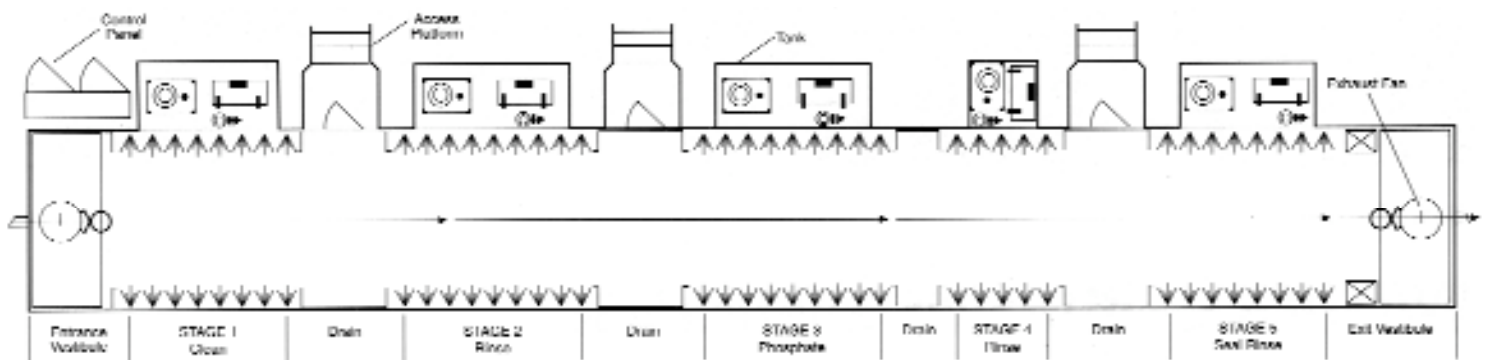
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### STANDARD CONSTRUCTION:

#### Summary of Standard Features

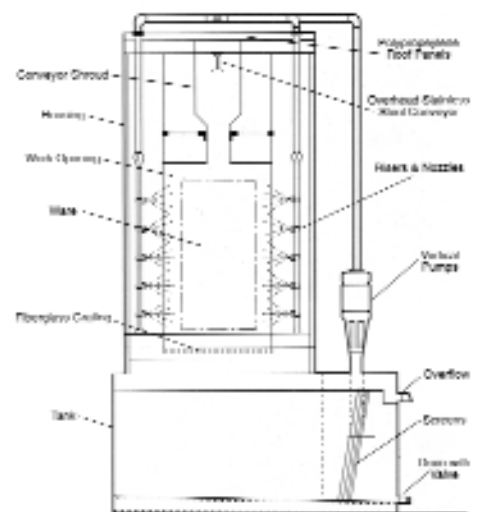
- Mild steel tanks
- Drains and overflows
- Overflow gutters
- Dual T-304 sludge screens
- Solution level controls – Mechanical
- CPVC risers and plastic nozzles
- Vertical pumps with SS Shafts and Impellers
- TEFC Motors
- Heating equipment (gas fired immersion)
- Manual flow control valves
- Tank drain valves
- Stainless steel conveyor track
- CPVC piping
- Mild steel housing / Polypropylene roof panels
- Drain decks
- Bulkhead-type access doors
- Ventilation and drip shields
- Electrical control panel
- Work shrouds
- Conveyor shrouds
- Fiberglass grating
- Thermometers (heated stages)
- Temperature controls
- Pressure gauges

### TYPICAL FIVE STAGE WASHER



### OPTIONAL CONSTRUCTION AND MAINTENANCE EQUIPMENT:

- Stainless steel construction (T-304/316)
- Hot water/Steam/Fuel oil/Electric heating
- Electronic solution level controls
- Automatic chemical control and feed
- Particle filtration
- Oil separation (coalescer)
- Counter flow piping
- Low voltage lighting
- Access stairs and platforms
- Evaporator (zero discharge)
- Rapid fill bypass
- DI or RO system
- Wastewater treatment system
- Sludge handling system



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