

## CUSTOM DESIGNED PARTS WASHERS FOR PRODUCTION PROCESS CLEANING

### Conveyor Wash, Rinse, Dry Wash System



**I-SERIES 4824 MULTI-STAGE VIDEO DEMO ▶**

Shown with flat wire belt conveyor.  
 Dimensions: Length: 30'; Height: 9'; Depth: 11'.

The Renegade I-Series custom gas-heated 3-stage wash, rinse, dry pass-through production cleaning system delivers 3-stage continuous operation to clean and dry complex, multi-ported parts transported via conveyor belt operation. Each wash and rinse stage compartment contains spray manifolds with strategically-placed nozzles to deliver high pressure force and high temperature cleaning. The gas-heated dry stage compartment contains a dual chamber and a variable speed driven power vent to aid with steam removal.

#### KEY FEATURES AND BENEFITS

- Flow Through Wash System: Multi-Stage Wash, Rinse, Dual Chamber Dry Cleaning System
- Washer PLC/HMI Touch Screen User-Friendly Controls:
  - 7-day Heating Timer
  - Filter Monitoring
  - Low Water Warnings
  - Preset Maintenance & Wash Cycles
  - Temperature Display
- 230 V 3Ph; 460 V 3Ph
- Smart Liquid Level Sensing System
- Foam Sensing System
- Heavy Duty, Variable Speed Conveyor System; Acetal Plastic, or Flat Wire Belt
- Rugged Stainless Steel Construction
- Max Solution Temperature 185 degrees
- Proximity Laser Sensor Switch
- VFD Power Vent for Fast Steam Removal
- Sump Sweep with Dual Filtration on Wash Stage
- Dual Chamber Dry Stage
- Drain and Overflow Ports
- Door Access to Each Cleaning Stage
- E-Stop at Load And Unload

#### WASH CYCLE STAGE SPECS:

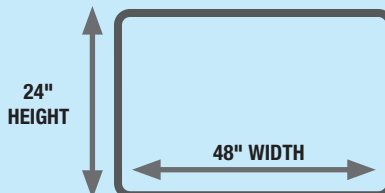
- 7.5 HP Heavy Duty Wash Cycle Pump Each Stage
- 512k BTU Gas Immersion Heaters
- 15 hp Centrifugal Blower
- 200 Micron Multi Canister Filtration w/ Sump Sweep
- Tank Volume - 627 Gallons

#### RINSE CYCLE STAGE SPECS:

- 7.5 HP Heavy Duty Wash Cycle Pump Each Stage
- 512k BTU Gas Immersion Heaters
- 200 Micron Multi Canister Filtration w/ Sump Sweep
- Tank Volume - 548 Gallons

#### DUAL CHAMBER DRY STAGE

- Zone 1: 15 HP Centrifugal Blower
- Zone 2: 2 - 2 HP 225k BTU Gas Heated Recirculating Blowers



**WASH ZONE SPECS:**  
 750 lb. TOTAL BELT LOAD CAPACITY

#### COMPONENT HIGHLIGHTS



Large, user-friendly HMI/PLC Control Panel



Precisely positioned nozzles and spray manifolds deliver high volume force for maximum cleaning. Dry chamber air knife blows excess water from parts.



Gas heated wash, rinse and dry stages.



Optional baffled three-chamber rotating drum oil separator filtration system.

I-SERIES 4824 MULTI-STAGE PASS THROUGH PARTS WASHER Rev. 01-2023 Cycle times will vary depending on production cell operations, part size, part shape, part weight, and product supply. Subject to changes and modifications without notice.



**CALL: 800-774-7900**

**EMAIL: [sales@renegadepartswashers.com](mailto:sales@renegadepartswashers.com)**

## CUSTOM DESIGNED PARTS WASHERS FOR PRODUCTION PROCESS CLEANING

### INDUSTRIAL APPLICATIONS

Aviation & Aircraft Parts Cleaning

Contract Machining

Fabrication Parts Cleaning

Metal Casting & Forming

Pattern & Machining

Precision Part Manufacturing

Production Engine Shops

Remanufacturing Facilities

Tool & Die Machining

Transmission Machine Shops

### DISCOVER THE DIFFERENCE AND LEARN WHEN CUSTOM PARTS WASHERS ARE BEST FOR YOUR PRODUCTION CELL

Manufactured by Service Line, Inc. since 1996, Renegade designs and manufactures parts washers for unique industrial process cleaning applications. With an extensive archive of successful machines, choose from our automatic top load or front load systems configured for your application.

Contact the Renegade Team if your parameters for custom design production process cleaning include one or more of the following parameters:

- Achieve Consistent Clean Specification Requirements
- Difficult Cleaning Challenges Such as Blind Holes, Tapped Holes, Delicate Features, Etc.
- Expanded Height, Length, Diameter, Or Weight - Available as Specified
- Lower Production Cycle Times
- High Pressure Requirements
- Multi-Stage Wash Rinse Dry
- Parts Washer Detergent Considerations or Requirements for Items to be Cleaned: De-Foaming, Rust Preventative, Solvent-Free, Environmental Concerns, or Health Concerns.
- Special Fixtures
- Special Proprietary Parts Cleaning and More
- Zero Contamination Requirements

Renegade will conduct a thorough analysis of your parts cleaning requirement and will create a special order system for your budget.

### RENEGADE I-SERIES CUSTOM COMPONENTS AND ENHANCED FUNCTIONALITY

- Closed Loop Rinsing Cycle
- Conveyor Configurations Include Straight, 90 Degree and 180 Degree
- Custom Blowers
- Custom Hot or Cold Air Quick-Dry to Prevent Flash Rusting
- Custom Parts Fixtures
- Door Interlock Safety Switch
- Ethernet Connection
- Filtration Systems with Finer Reduction Efficiencies to Comply with Stringent Cleanliness Specifications
- Gas Heat
- Heated Drying Cycle
- Heater Capacity Range
- Hot Water Rinse Applications
- Increased Load Capacities
- Large 12" HMI
- Oil Coalescent
- Overhead Jib Crane
- Part Tumbling Baskets
- PLC Integration of New Parts Washer To Existing Production Cell
- Power Exhaust Vent
- Pump Capacity Options
- Rinse to Drain Cycle
- Robotic Load Systems
- Rotary Part Fixture System
- Safe Touch Heat Shielding
- Specialized Gantry Cleaning Platforms for Heavy Parts That Require Special Access to The Washing Platform
- Stainless Steel Infrastructure for No-Rust Durability
- Targeted Drying



Renegade Pass Through Parts Washer shown with External Conveyor.

### I-SERIES INLINE PASS-THROUGH CONVEYOR WRD WASH SYSTEM CUSTOMER GOALS

#### VERSATILITY

- Advanced automation through PLC and HMI.

#### COST REDUCTION

- Automated process reducing labor cost.
- 3-stage wash, rinse, dry cycle efficiently keeps part in one system.
- Cleaned parts are more prepared for finishing.

#### INCREASE PRODUCTIVITY

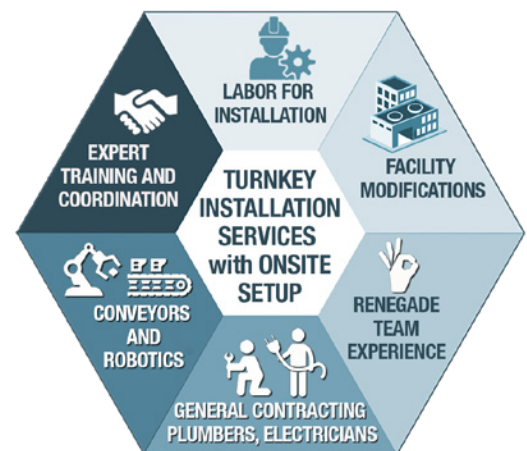
- Quickly and efficiently clean a high volume of parts with the shortest lead time between production and final end-user installation.
- Effective process throughput improvement from reduction in human intervention.

### RENEGADE PARTS WASHER DETERGENTS

Renegade's experience in the industry led to the development of special non-solvent based detergents that are both environmentally safe and health conscious for your employees.

Use Renegade low-foaming detergents to remove grease, soil, paint, corrosion, oil, and other contamination from parts' surfaces. Choose from manual or automatic detergents, degreasers, additives and hand cleaners. **Learn more and order now, call 800-774-7900 or go to Renegade at [www.partwasher.net](http://www.partwasher.net).**

### ASK ABOUT ONSITE SETUP SERVICES



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