

## CUSTOM DESIGNED PARTS WASHERS FOR PRODUCTION PROCESS CLEANING

### Automatic Conveyor Pass-Through Wash Rinse Dry System



Renegade I-Series Multiple Stage Pass Through Washer WRD Dimensions: Length: 39' 6"; Height: 9' 3"; Depth: 11' 1/2"

#### DESCRIPTION

The **Renegade I-Series Belt Conveyor Pass Through Wash, Rinse Dry Parts Washer** delivers 3-stage continuous operation to clean and dry complex, multi-ported parts transported via inline belt conveyor operation. Each wash and rinse stage compartment contains spray manifolds with strategically-placed nozzles to deliver high pressure force and high temperature cleaning. The dry stage compartment contains a powerful air blower to remove residual water from even hard to reach cavities. Conveyor "tunnel" or "flow-through parts washers are designed for high production, repetitive cleaning operations. Stages can be configured in any order. The Renegade Modular Conveyorized Cleaning System reduces labor and increases operational efficiency for real impact on your cost of operation.

#### KEY FEATURES AND BENEFITS

- Flow Through Wash System: 3-Stage Wash Rinse Dry Cleaning with Separate Wash Zone Compartments
- Washer PLC/HMI Touch Screen User-Friendly Controls:
  - 7-day Timer for Heating and Skimming
  - Filter Monitoring
  - Low Water Warnings
  - Preset Maintenance & Wash Cycles
  - Temperature Display
- 230 V 3Ph; 460 V 3Ph
- Automatic Low Water Level Shut Down
- Filtered Fresh Air Intake
- Heavy Duty, Variable Speed Flat Wire Belt Conveyor Transport System
- Rugged Stainless Steel Construction
- Max Solution Temperature 185 degrees
- Oil Skimmer for Wash Tank
- Power Vent for Fast Steam Removal
- Proximity Switches
- Debris Screen to Catch Debris Above the Water Level
- Drain and Overflow Ports

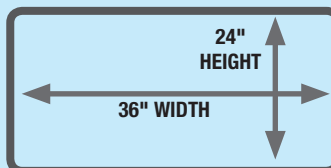
- Door Access to Each Cleaning Stage with Lid Safety Switch
- E-Stop at Load And Unload

#### WASH CYCLE STAGE/RINSE CYCLE STAGE SPECS:

- 15 HP Heavy Duty Wash Cycle Pump Each Stage
- 45 KW @ 230 V; 60 KW @ 460 V Heaters Each Stage
- Tank Volume - 840 Gallons Each Stage

#### HEATED DRY CYCLE

- 2 HP Blower



**WASH ZONE SPECS:**  
**1,000 LB. LOAD CAPACITY**

**I-SERIES PASS-THROUGH VIDEO DEMO ►**

#### COMPONENT HIGHLIGHTS



Large, user-friendly HMI/PLC Control Panel



One 6-Bag Filter Assembly and One 15 HP Heavy Duty Pump for each Wash and Rinse Cycle; Power Vent for rapid steam removal.



Precisely Positioned Nozzles and Spray Manifolds for upper, lower, and side direction deliver high volume force for maximum cleaning. Heated Dry Cycle.



Rugged variable-speed Flat Wire Belt conveyor system.

I-Series CCS 3624B WRD SS PASS THROUGH PARTS WASHER Rev. 12-2018 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

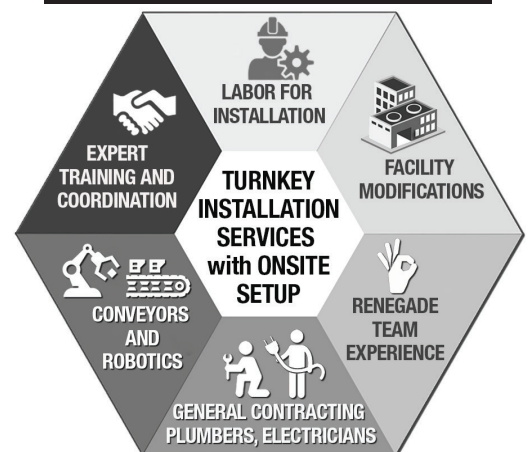
- Quickly and efficiently clean a high volume of parts with the shortest lead time between production and final end-user installation.
- Effective process throughput improvement from reduction in human intervention.

### 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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