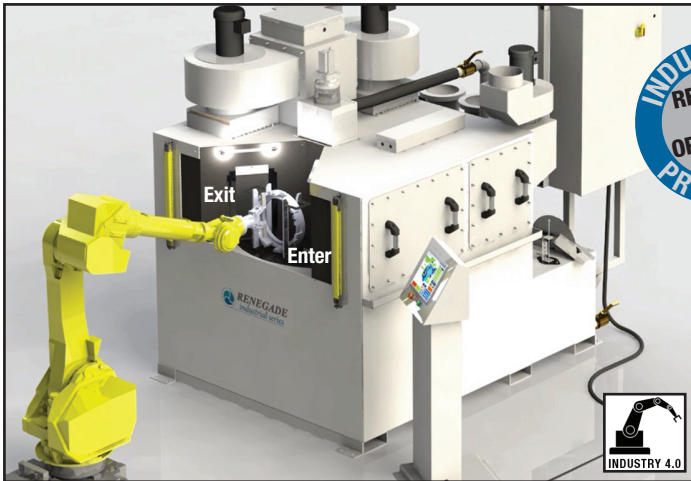


CUSTOM DESIGNED PARTS WASHERS FOR PRODUCTION PROCESS CLEANING

Automatic RTO: Return to Operator Wash Dry Carousel Parts Washer



Renegade I-Series RTO Parts Washer (Shown with Optional Robotic Interface). Precision Cleaning and Drying in a Compact Footprint to Boost Cellular Operations. Dimensions: Length: 65-1/2"; Height: 91" inches; Width: 72-1/2" inches.

DESCRIPTION

The **Renegade I-Series RTO Return to Operator Wash Dry Carousel Parts Washer** efficiently cleans and dries complex, multi-ported parts transported via gear-driven carousel operation. The wash zone contains strategically-placed wash nozzles to deliver high pressure force that cleans hard to reach cavities. The dry zone utilizes heated re-circulating blow dry plus an air knife to thoroughly dry components with blind holes. The Renegade RTO cleaning and drying systems are designed to interface with robots that are at the forefront of Industry 4.0 high production, repetitive cleaning operations. Renegade I-Series Cleaning and Drying Systems reduce labor and increase operational efficiency for real impact on your cost of operation.

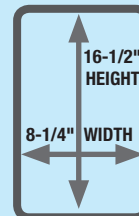
KEY FEATURES AND BENEFITS

- Wash Dry: Two-Stage Cleaning Efficiency
- 230 V 3Ph; 460 V 3Ph
- Large, 12.1" Touch Screen PLC/HMI Controls:
 - 7-day Timer for Heating and Skimming
 - Cycle Times Display
 - Filter Monitoring Display
 - Low Water Warnings
 - Preset Maintenance Cycles
 - Preset Wash Cycles
 - Temperature Display
 - Touch Control for Start & End Cycle

- Oil Skimmer for Wash Tank
- Power Vent for Fast Steam Removal
- Wash Cycle Filtration
- Dual Safety Light Curtain
- **WASH CYCLE:** 15 HP Sealless Pump; 30GPM@60PSI; Sump Capacity: 475 Gallons; Heater: 36KW Heater @ 460V; 27KW @ 230V
- **DRY CYCLE:** Two 2 HP Stainless Steel Blowers Heater: 24KW @ 460V
- Compressed Air Nozzles and Air Knife

- Maximum Heater Temperature: 185°
- Gear Driven Carousel
- Wash Low Water Safety
- Ethernet Connection
- Filtered Fresh Air Intake

**I-SERIES RTO
 RETURN TO OPERATOR
 WD VIDEO DEMO ▶**

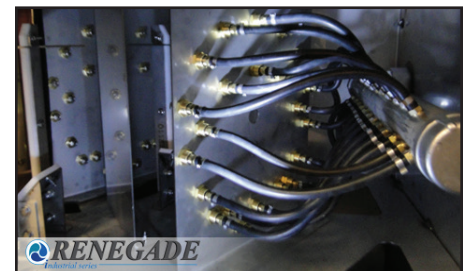


WASH ZONE SPECS:
 750 LB. LOAD CAPACITY

COMPONENT HIGHLIGHTS



Allen-Bradley Monitor with Large, Touch Screen PLC/HMI Controls.



Strategically-placed wash nozzles deliver precision cleaning for custom fixtures.

I-Series RTO Wash Dry Parts Washer Rev. 5-2018 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

CUSTOM DESIGNED PARTS WASHERS FOR PRODUCTION PROCESS CLEANING

INDUSTRIAL APPLICATIONS

Aviation and Aircraft Parts Cleaning
Fabrication Parts Cleaning
Industrial Parts Cleaning
Machine Shop
Large Casting CNC Machining Facilities
Production Engine Shops
Production Machining Facilities
Remanufacturing Facilities
Transmission Machine Shops
Transportation Production Centers

**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
- 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

**I-SERIES RTO RETURN TO OPERATOR
WASH DRY WASH SYSTEM
CUSTOMER GOALS**

VERSATILITY

- Advanced automation through PLC and HMI.
- Compact Footprint saves space.

COST REDUCTION

- Automated process reducing labor cost.

INCREASE PRODUCTIVITY

- Quickly and efficiently wash and dry a high volume of parts with the shortest lead time.
- Designed for Robotic Interface for effective process throughput improvement from reduction in human intervention.

RENEGADE PARTS WASHER DETERGENT

Renegade's history of providing parts washer solutions also includes a wide variety of **soaps and detergents** for use in parts washer systems. Renegade's experience in the industry led to the development of special non-solvent based surfactants 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.**

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