

HydroJet® Inline Cleaner

CHEMISTRY TYPE:

Water and Semi-Aqueous Cleaning Chemistries

SYSTEM CAPABILITIES:

Washes with Chemistry or Water in One Machine

24" (60.96 cm) Conveyor Belt

15" Color Touch Screen Industrial Interface – PLC Controlled

LED Lighted Interior

Double Tempered Glass Viewing Windows

Stainless Steel Manifolds and Spraybars in Wash and Rinse Sections

Heated Chemistry Wash Up to 150 F (66 C)

Heated Water Rinse Up to 140F (60C)

Progressive Energy Dynamics (PED) Wash and Rinse Spray Manifolds

Effectively Washes and Rinses Under Tight Spaces and Small Gaps

Foam Detection with De-foam Metering Pump (option)

Patented Jet Manifold Drying

Fluid Isolation System

Short Cycle Time Belt Speeds up to 5' per Minute for a Typical Wash, Rinse, and Dry

Integrated Closed Loop DI System Saves Water and Heating Costs

HEPA Air Filtration

VFD Controlled Pumps and Blowers

Low Maintenance

Low Operating Cost Saves Resources

"GREEN" Zero Discharge to Drain (except during maintenance)

Automatic Chemical Metering with Chemistry System

Final Rinse Resistivity Monitoring and Alarm

Tool Specifications:

Footprint: 16'9" x 6' x 5' (515.11 cm x 182.88 cm x 152.4 cm)

Electrical: 480V, 50/60Hz, 200AMPs, 3 Phase

Weight: 4000 lb (1814 kg)

Quiet Operation: <85 db

Progressive Energy Dynamics (PED) Provides Superior Wash Technology

- Progressive Energy Dynamics: Based on our Computational Fluid Dynamics (CFD) modeling we developed a Coherent Jet Wash Spray Technology with PED for our wash section. The concept of PED is to increase the energy from the first spray bar to the last in the entire wash section, starting with a flooding jet and progressing to a High Energy Coherent Jet. This gives you the best and fastest removal of flux possible.
- Coherent Jets are solid streams of fluid that have the highest impingement pressure at the board surface. Once they hit the board, they are omni-directional giving you the best flux removal as well as best under low profile component penetration needed for cleaning to 1ml gaps.

Superior Rinsing

- We use coherent jets with PED in our power rinse section. There is a final “polishing rinse” before going to our dryer which is metered and alarmed.

Industry Leading Patented Jet Dryer

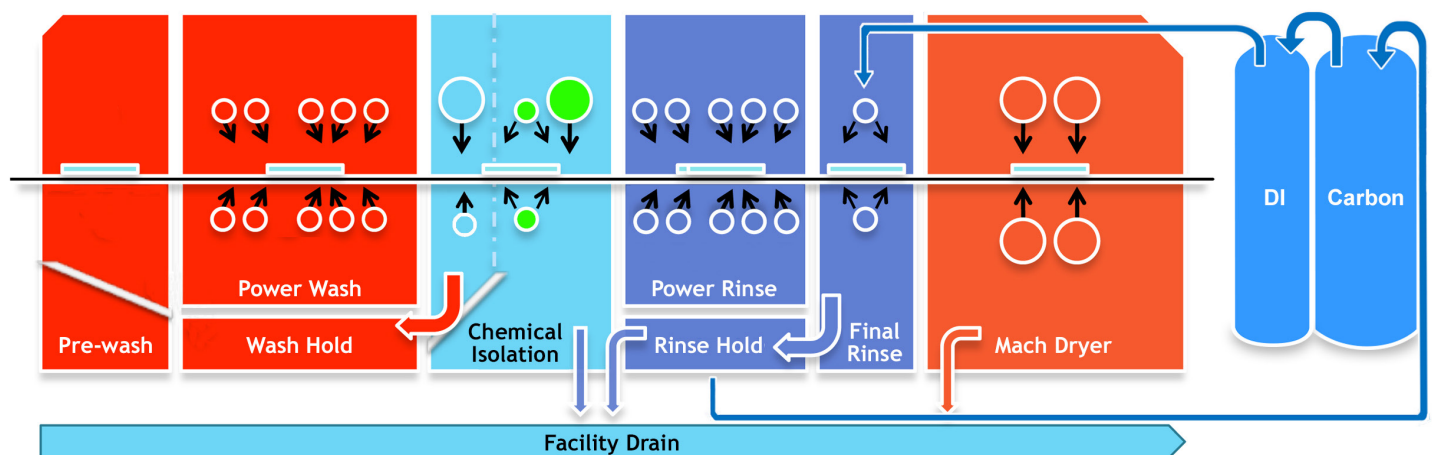
- Our patented Jet Manifold drying system removes water from the PCB without using an independent heater, eliminating the tendency to “bake” unwanted ionic contamination on the assembly. The HydroJet® uses a HEPA filter to minimize particulate contaminate of sensitive electronics. We have 2 upper and 2 lower Jet Manifolds that get boards much dryer in a shorter space at higher throughput speeds than any other in-line available.

Superior Isolation – When Using Chemistry

- Wet and Jet Dry Isolation ensures superior chemistry removal and recovery. With our patented Air Jet technology, overall you will get better chemical isolation and recovery with our system which saves on chemistry costs.

Earth Smart Closed Loop Rinse System Built-in

- All of AAT’s Jet® In-line cleaners come standard as a closed-loop system. Earth Smart green cleaning closed loop systems save chemistry, save water, lower operational costs, and save money and the environment.



Optional Spray Bars

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