



CLEANING PLATFORM:

# MICROJET™ FC

SOLVENT TYPE:

WATER, SEMI-AQUEOUS SOLVENTS CLEANING SOLVENTS

SYSTEM CAPABILITIES:

- ✓ AUTOMATIC CHEMICAL MANAGEMENT SYSTEM
- ✓ PATENTED PROGRESSIVE HIGH ENERGY SPRAY MANIFOLDS
- ✓ PATENTED CHEMICAL ISOLATION SYSTEM
- ✓ PATENTED DRYING TECHNOLOGY
- ✓ UP TO 6-FOOT/MINUTE OPERATION (COMPLETELY DRY)
- ✓ SMALL FOOTPRINT (13' X 5' X 5')
- ✓ COLOR TOUCH SCREEN INTERFACE
- ✓ LOW COST OF OWNERSHIP
- ✓ LOW FACILITY REQUIREMENTS / CONSUMPTION
- ✓ QUIET OPERATION (UNDER 85 DBA)
- ✓ HEPPA DRY AIR FILTRATION

## SYSTEM BENEFITS

- CLASS-LEADING PERFORMANCE IN A COMPACT FOOTPRINT.
- HIGHEST THROUGH-PUT IN THE INDUSTRY.
- EASY TO CLOSE LOOP.
- EASY AND FLEXIBLE SYSTEM OPERATION.
- FLEXIBILITY TO RUN WATER OR SEMI-AQUEOUS CHEMISTRY.
- FACILITATES QUICK AND EASY MAINTENANCE.
- UPGRADABLE IN THE FIELD.
- LOWEST COST OF OWNERSHIP.
- EXCLUSIVE AAT PROGRESSIVE ENERGY WASH TECHNOLOGY.

## ENVIRONMENTAL BENEFITS

- LESS RUN TIME WITH PROGRESSIVE ENERGY DYNAMICS (PED)
- EFFICIENTLY REMOVES WATER WITHOUT HEAT DYNAMICS.
- EFFECTIVE CHEMICAL ISOLATION.
- REDUCES CHEMICAL CONSUMPTION.
- REDUCED ENERGY AND WATER CONSUMPTION.
- GRAPHICAL USER INTERFACE WITH REALTIME ALARMS.
- GREATLY REDUCES WASH CHEMISTRY USAGE AND FACILITATES CLOSED-LOOP OPERATION.
- DESIGNED FOR EFFICIENCY.

### Durable Construction

The MicroJet™ FC in-line system is constructed of high-density polypropylene for excellent chemical compatibility and long life. It has a noncorroding, rigid metal chassis, unibody construction, a detachable load section, and hinged windows at each chamber for easy access. The conveyor employs an automatic tensioning system and torque limiter to protect the drive motor in forward and reverse modes.

### Prewash and Wash

The prewash section can serve as an extension of the wash section (for use with wash chemistry) or operate in a full cascade mode direct to drain. Pressure balance valves and a flow meter are included. The recirculated wash section features Progressive Energy Dynamics which optimizes impingement force and flow without operating at unnecessarily high pressures. Water is heated and recirculated at a flow rate of 120GPM, and an optional chemical injection system can add saponifier or defoamer. The Chemical Isolation section can be configured with spray, air blow-off, or both. This can dramatically reduce the amount of wash chemistry used, thus significantly reducing operating costs. In addition, it increases resin bed life when the rinse is recycled through a closed-loop system.

### Power Rinse and Final Rinse

Heated and recirculated water utilizing Progressive Energy Dynamics is directed on the PCB during the power rinse. The final rinse, which can introduce deionized water into the system, uses as little as 2GPM.

### Patented Dynamic Drying

Austin American Technology's patented Jet Manifold drying system removes water from the PCB without adding heat, eliminating the tendency to "bake" unwanted ionic contamination on to the assembly. This technology also reduces operating costs and increases blower life.

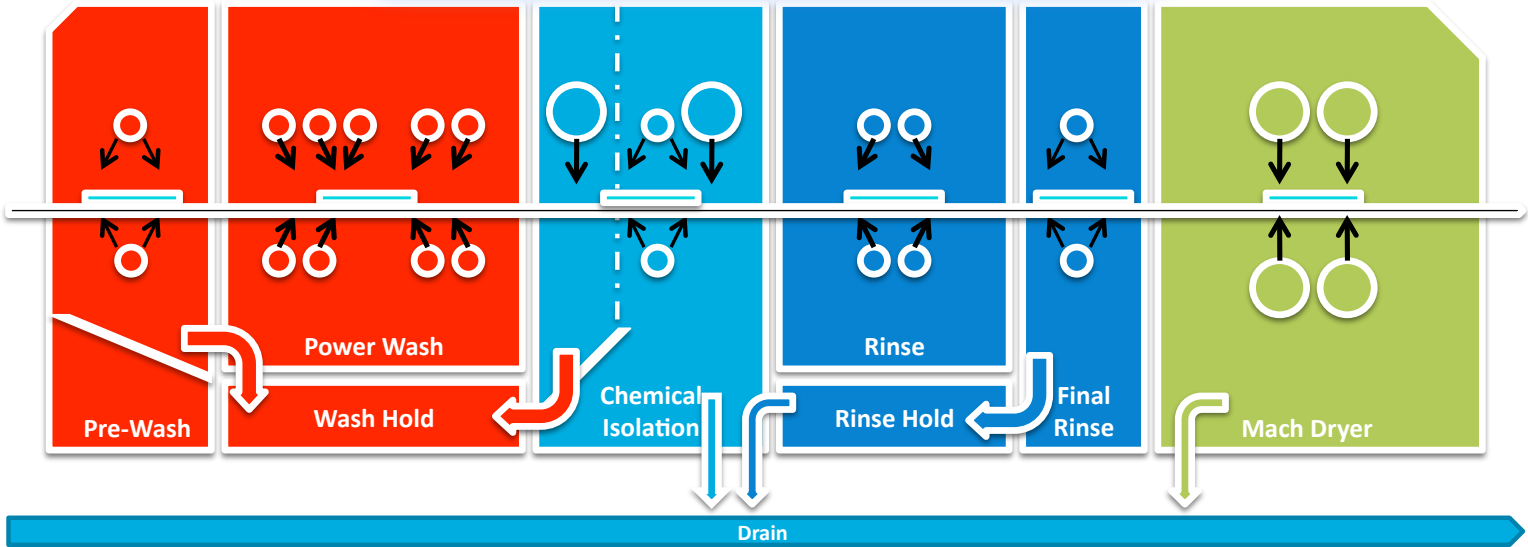


## VISIT US ONLINE!

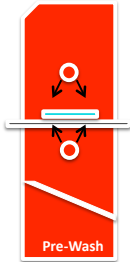
FIND OUT MORE ABOUT THE MICROJET™ FC ON THE AUSTIN AMERICAN TECHNOLOGY WEBSITE AND READ THE RESEARCH WHICH SETS US APART FROM THE FOLD.

» [www.aat-corp.com/products/microjet/fc](http://www.aat-corp.com/products/microjet/fc)

» [www.aat-corp.com/PED](http://www.aat-corp.com/PED)

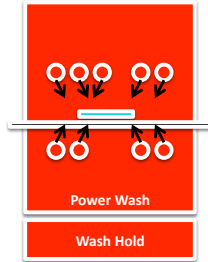


### PRE-WASH MODULE



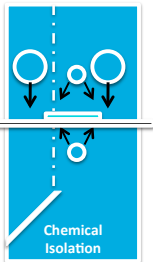
- SOAKS COMPONENTS USING LOW-PRESSURE FAN JET NOZZLES.
- POWERED FROM PRIMARY WASH PUMP AND HEATED HOLDING TANK. REDUCING POWER CONSUMPTION AND MAINTENANCE.
- ADJUSTABLE LOWER AND HIGHER MANIFOLD PRESSURE.

### WASH MODULE



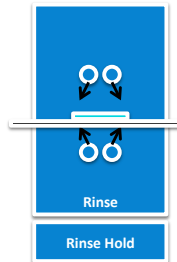
- PED (PROGRESSIVE ENERGY DYNAMICS) JETS ALLOW THE SYSTEM TO CLEAN PRECISION AND UNDER LOW-STANDOFF SMT COMPONENTS.
- LOW, MEDIUM, AND HIGH PRESSURE COHERENT JETS.
- HEATED HOLDING TANK, ALLOWS FOR HIGH TEMPERATURE OPERATION.
- 7.5 HP WASH PUMP PROVIDES OVER 50 PSI IN MANIFOLD LEVEL PRESSURE AND >12 PSI IMPINGEMENT PRESSURE.

### CHEMICAL ISOLATION MODULE



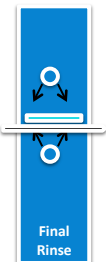
- REDUCES WASH FLUID DRAG-OUT BY STRIPPING WASH FLUID BACK TO THE WASH HOLDING TANK THROUGH COHERENT AIR JETS.
- HIGH EFFICIENCY AIR NOZZLES PROVIDE OPTIMAL ISOLATION PERFORMANCE WITH REDUCED ENERGY USE.
- REMAINING FLUID IS SPRAYED WITH LOW PRESSURE FAN JET NOZZLES AND IS SENT DOWN TO DRAIN.

### RINSE MODULE



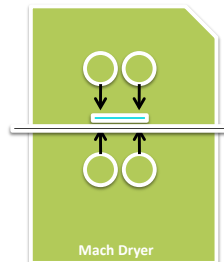
- UTILIZES PED JETS TO DELIVER RINSE WATER ONTO BOARD SURFACE. PROVIDING FOR OPTIMAL RINSING OF BOARD SURFACE AND UNDERNEATH COMPONENTS.
- LOW, MEDIUM, AND HIGH PRESSURE COHERENT JETS.
- HEATED INDEPENDENT HOLDING TANK ALLOWS FOR INDEPENDENT RINSE WATER TEMPERATURE.

### FINAL RINSE MODULE



- HIGH RESISTIVITY FINAL RINSE.
- LOW WATER CONSUMPTION.
- FINAL RINSE DI WATER IS RECYCLED TO RINSE HOLDING TANK TO INCREASE RINSE BATH LIFE.
- OPTIONAL RESISTIVITY MONITORING AND ALARM.

### DRYING MODULE



- PATENTED HIGH ENERGY COHERENT JET MANIFOLDS.
- HIGH VELOCITY DRYING AIR DISPLACES FLUID FROM THE BOARD SURFACE.
- NO HEATING REQUIRED IN DRYING STAGE.
- LOW POWER CONSUMPTION.
- ALLOWS FOR UP TO 6 FOOT/MINUTE OPERATION WITH COMPLETE DRYING.