



Microjet In-Line

Revolutionary Flow Dynamics For Cleaning and Drying

Highest Product Yield
Lowest Cost Of Ownership
Superior Durability For Long Life And Service
Proven Performance
Patented Technology
Small Footprint
Absolute Best Drying Performance
Highest Throughput - Multi - Line Production Capability
Add Capabilities Adding Footprint



Features

- ❑ Ease of Maintenance enhanced by quick disconnect components and open access
- ❑ PLC controller with color touch-screen interface for simple, user friendly setup and operation
- ❑ Superior washing and rinsing with patented jet manifolds
- ❑ Effective chemical isolation provides lowest operating costs in the industry
- ❑ Interchangeable partial/full cascade operations
- ❑ High-speed jet impingement washing system

Advantages

- ❑ Up to 10 times improvement in performance
- ❑ Two drying configurations - Mach I and Mach II
- ❑ Field upgradeable for drying system - no IR heating modules required
- ❑ Specifically designed for cleaning and drying the latest interconnect technology
- ❑ Clean to electrical test without costly staging

Specifications

Pre-Wash

- One upper and one lower spray bars
- 1-4 g.p.m. easy filter

Wash

- 3 upper and 3 lower adjustable spray bars
- Component catch screen
- Dual screens on pump intake
- 62 gal. heated sump (140F)
- 80 g.p.m. flow rate
- 5 HP pump (vertical mount)

Chemical Isolation

- Standard w/wet isolation and static drip
- Optional blow-off isolation available

Power Rinse (Jet Manifolds)

- Adjustable dual jet manifold
- Heated sump (140F), 38-gal. capacity
- Component catch screens
- Dual screens on pump intake (easy access)
- 2 HP Pump (vertical mount)

Final Rinse

- Pressure water line (DI or tap) at 1-4 a.p.m.
- Adjustable flow input meter
- One upper and one lower spray bar 20-50 psi

Dryer

- Patented jet manifold
- Mach I : 1 upper, 1 lower manifold @ 850 cfm
- Mach II : 2 upper, 2 lower manifold @ 1200 cfm

Board Capacity

- 2" x 3" up to 18" x 24" assembly w/o top belt
- 1" - 3.5" height adjust
- 6-10 FPM conveyor speed

Minimized Downtime

- Vertical Mount, rock -out pumps (no seal)
- Front and rear sump access
- Blowers mounted for easy access and removal
- Self-tensioning belts
- "On the fly" screen changes
- Sloped sump bottoms for easy draining
- Easy access floats
- Self tensioning conveyor belts
- Quick-connects, unions (toolless design)

Safety

- Conforms to NFPA 79, SMEMA, NEMA12, OSHA
- Three emergency stops
- Over fill/heat protect
- Pressure and flow gauges
- Identifiable Alarms

Construction

- High-density polypropylene
- High Quality triple-welded
- Will withstand up to 160F
- Single body construction
- Detachable onload section
- Corrosion resistant metal frame
- Hinged front and hinged removable rear panels
- Three ventilation stacks with flow balancing
- Scratch resistant surfaces

Small Footprint

- < 13.1' length x 5.0' width x 5.2' height

Two Drying Speeds

- Mach I (1-4 FPM)
- Mach II (1-6 FPM)
- Field upgradeable with no change in footprint



Fig 1: Board through Chemical Isolation Blow Off Section



Fig 2: Board through Dry Section

General

- Conforms to NFPA 79
- OSHA (Compliant at < 85dBA)
- SMEMA conveyor height of 37-38" (via leveling feet)
- NEMA standards
- ESD safe

Construction

- Cabinet built of high-density polypropylene
- Capable of withstanding temperatures of up to 160F
- Corrosive-resistant, rigid metal chassis/frame
- Leveling feet with 2 inch range of adjustment
- Sump tanks built of polypropylene
- Triple welds used for all wetted tanks
- Single Body construction with detachable on-load section
- Polypropylene used for majority of plumbing
- CPVC plumbing used for water inlet line only
- Ventilation - 3 independent exhaust stacks
- Overall Dimension = 13.1' x 5.0' x 5.2' with footprint (less conveyor ends) = 13.8' x 6'
- Section layout: Inlet Conveyor (18"), Pre-wash (12"), Main Wash (32"), Chemical Isolation (26"), Main Rinse (30"), Power Rinse/Final Rinse (8"), Dryer(31"), Outlet Conveyor (18")
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Accessibility

- Plumbing incorporates unions for quick disassembly
- Easy access to filters/strainers
- Liquid level switches easily accessible from back of unit
- Pumps prime automatically
- Vertically mounted pumps (no seals)

Configuration

- OA (Water-soluble) flux: full or partial counter-flow (Cascade) design
- Rosin based flux: Re-circulated wash and counter-flow rinse sections

Exhaust Requirements (Minimum)

- Mach I = 480VAC 160Amp 3PH 60Hz
- Mach II = 480VAC 180Amp 3PH 60Hz
- Clearance front/rear = 36" Recommended
- 220VAC Optional

DI/Tap Water Requirements

- Water Inlets: DI - no greater than 5 gpm at Final Rinse, 1/2" MNPT
Tap - 2-8 qpm (sump tank fill source), 3/4" MNPT

Conveyor

- Onload: Adjustable height range of 36.5"-38.5" from the floor via leveling feet
- 18" wide stainless steel wire belt with 18" maximum usable area for boards top side (16" bottom side)
- Direct drive adjustable from 1-10 feet per minute

Cleaning Envelope

- Board Size: 18" x 22" Max. with 3.5" max height
- Dryer manifold height adjustable from 1"-3.5"