Space Efficient, Modular FPI System

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Fluorescent Penetrant Inspection

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Part Envelope Size
20”x40”x20”

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3-Station Module

Application Module (AM)  Spray Module (SM)  Dryer / Inspection Module (DIM)

3-Station Dry Weight: 2400 lbs.

4-Station Module

Application Module (AM)  Spray Module (SM)  Dryer / Inspection Module (DIM)

4-Station/Dry Weight: 3350 lbs.
Designed to meet ASTM E1417
MIL-STD-1839C Compliant

Tested tough
1. Low Temperature Storage
   MIL-STD-810G, Tested at -40°F

2. High Temperature Storage
   MIL-STD-810G, Tested at +160°F

3. Low Temperature Operation
   MIL-STD-810G, Tested at +50°F

4. High Temperature Operation
   MIL-STD-810G, Tested at +104°F

5. Air Transportation
   Sustained Acceleration
   MIL-STD-810G

6. Shock
   MIL-STD-810G

7. Vibration
   MIL-STD-810G, Tested at
   General Exposure Jet Aircraft
   Standards

Tested Safe
Hexavalent Chrome Free
Plating Free Fasteners
Complete HMMP
   [available upon request]
Application Module (AM)
Application Module

Large 20” x 40” x 20” part envelope

10” reach to center of tank

Ergonomic working height 36”
Application Module

Multi-position dwell shelves

Delrin shelf guides
(no lubrication required)

Multi-point leveling base

Floor anchoring holes
System modular connections
Application Module

- Fully extended work surface
- Lightweight aluminum tank cover
- Integrated cover storage pocket
- Stainless steel tank construction
- Single 1 1/4” NPT drain connection with station mounted ball valve
Application Module

Center draining shelves with integral drain filter

Replaceable shelf filter

System integral drip edge
Application Module

Fully retracted work surface

Integrated carrier rack

AAP [Air Acceleration Package, includes Dust Collector] allows Application Module to be converted from a Wet Dip Module to a Dry Developer Module.
Application Module

Module can be used for:
• Dip Penetrant
• Dip Emulsifier
• Dip Developer
• Dip Rinse
• Dry Developer [AAP Option]
Spray Module (SM)
Spray Module

Full access pivoting spray gun holder

Ergonomic working height

20”  40”  20”  36”
Spray Module

Multi-point leveling base
System modular connections
Floor anchoring holes
Spray Module

Integrated carrier hanger

System integral drip edge

Non-metallic tank shelf
Spray Module

Calibrated gauge manifold
Thermowell - Temperature
Quick coupler - Pressure

3/4” NPT water connection
1 1/4” NPT ball valve
drain connection
Spray Module

Integral plumbing cover

Pressure reducing valve

Course spray water wash

Stainless steel tank construction
Spray Module

LED UV-A Lamp
(meets ASTM E3022)

Wet location 120V receptacle

Adjustable lamp hanger

Rinse containment curtain surround
(MIL-PRF-20696F, Type II, Class 2)
Spray Module

Proportional Spray Package (Optional)

Water filter

Mixing pump

Mixing chamber

Auxiliary tank fill port

Level gauge

‘Red’ spray wand
Spray Module

Module can be used for:
- Method A spray rinse
- Method D spray emulsifier rinse
- Wet developer spray
- Spray penetrant
Dryer / Inspection Module (DIM)
Dryer / Inspection Module

- Sliding dryer shelf
- Removable drip pan

- Full access dryer enclosure

Dimensions:
- 20”
- 40”
Dryer / Inspection Module

Multi-point leveling base
Floor anchoring holes

System modular connections
Dryer / Inspection Module

- Stainless steel construction
- Energy efficient / Insulated enclosure
- Ergonomic working height
- Safety awareness

36"
Dryer / Inspection Module

Main power disconnect

Programmable temperature & timer control with buzzer
Dryer / Inspection Module

Collapsible inspection curtains
Curtains meet MIL-PRF-20696F, Type II, Class 2
Less than 2-foot candles of white light with curtain surround
Dryer / Inspection Module

Removable covers for electrical connections

NEMA 4X enclosure

Plug connections to components / modules
Dryer / Inspection Module

LED UV-A lamp
meets ASTM E3022

Station exhaust fan

Plug-in strip heaters
Plug-in dryer fan
Inspection Lamp

C4 Magnum LED UV-A Lamp
UV-2000
NSN #5980-01-671-7903
Model MLF 250
[3 STATION]
Model # 250-00000
NSN #6635-01-663-6127

Includes:
1- Application Module (AM)
1- Spray Module (SM)
1- Dryer/Inspection Module (DIM)
1- Proportional Spray Package (PSP)

Utilities Required:
20 AMPS, 220V single phase
3/4” NPT water connection (10 GPM)
1 1/4” NPT drain
Model MLF 250
[4 STATION]

Includes:
2- Application Module (AM)
1- Spray Module (SM)
1- Dryer/Inspection Module (DIM)
1- Air Acceleration Package (AAP)
1- Proportional Spray Package (PSP)
1- Dust Collector

Utilities Required:
30 AMPS, 220V three phase
3/4” NPT water connection (10 GPM)
1 1/4” NPT drain
Model MLF 250
(5 STATION)

Includes:
3- Application Modules (AM)
1- Spray Module (SM)
1- Dryer/Inspection Module (DIM)
1- Air Acceleration Package (AAP)
1- Proportional Spray Package (PSP)
1- Dust Collector

Utilities Required:
30 AMPS, 220V three phase
3/4” NPT water connection (10 GPM)
1 1/4” NPT drain