



Manufacturer:
Fishman Corporation

Product Name:
Fishman Fiber Optic Benchtop Automation System - Option 2

Manufacturer Part Number:
DAB0041

AIRFREE® TECHNOLOGY



Automating Fiber Optic Connector Assembly

The Complete System for True Automation



By combining AlgorithmicControl™ with the LC/MT/SC Genius™ Precision ConnectorMount™, the High Precision Benchtop Robot, the SmartReload™ Station and the Fiber Optic Connector SmartApp™, Fishman® has created a superior solution that makes certain each fiber optic connector is filled precisely, cycle after cycle.

Contact the professionals at Fiber Optic Center for a quote or to get more details.

focenter.com • 508-992-6464 | (800) 473-4237 • sales@focenter.com
23 Centre Street • New Bedford, MA 02740 USA



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How the System Works



Acts as the Command Center for the Fiber Optic Benchtop Automation System

The SmartDispenser® with AlgorithmicControl™ is the industry's only intelligent fluid dispensing system.

- **As Such, It Supplies the Exact Amount of Epoxy to Each Fiber Optic Connector**
 - It does this by knowing the syringe size
 - It does this by knowing the exact fluid deposit volume
 - It does this by knowing the fluid delivery speed
 - It does this by knowing how much post dispense reverse motion
 - All this ensures exact replication
- **Plus, It Will Notify Operator When Syringe Reservoir is Empty and Stop Robot**

AirFree® Technology processes this information by applying algorithmic directives to the linear drive system. This enables the mechanical linear drive system with a cylinder (syringe) containing epoxy to dispense its fluid deposits accurately with the highest degree of repeatability.

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How the System Works



Acts as the Connector Location Tool for the Fiber Optic Benchtop Automation System

The Precision ConnectorMount™ Holds LC, SC or MT Fiber Optic Connectors in a Fixed Position.

- Its design allows for the fluid dispense tip to be guided into the connector center tube in preparation for the application of assembly fluid, which assures unparalleled precision

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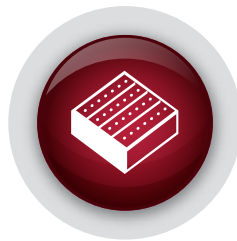
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How the System Works



Acts as the Monitoring System for the Fiber Optic Benchtop Automation System

The LC, MT and SC Connector SmartApp™ Monitors Amount of Fluid in the Syringe Reservoir.

- This SmartApp™ monitors how many fiber optic connectors are in a complete ConnectorMount™
 - This SmartApp™ monitors how much epoxy is dispensed into each fiber optic connector
 - This SmartApp™ assures that each fiber optic connector in a ConnectorMount™ is 100% filled. It also will not allow a ConnectorMount™ to be partially filled

The LC, MT and SC Connector SmartApp™ Monitors Epoxy Cure Time.

- This SmartApp™ will automatically stop the robot and notify the operator when the epoxy cure time has expired
 - This SmartApp™ will hold the robot stop communication signal until each fiber optic connector in a ConnectorMount™ is 100% filled. It also will not allow a ConnectorMount™ to be partially filled

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How the System Works



Acts as the Rapid Syringe Changeover Station for the Fiber Optic Benchtop Automation System

The SmartReload™ Station Reduces Syringe Changeover Downtime From Approximately 9 Minutes to 40 Seconds.

- Allows the AirFree® LinearDrive™ System (LDS) Dispense Guns, with syringe fluid reservoir, to be loaded while the automation cell is assembling fiber optic connectors
- Increases production throughput while dramatically lowering the cost of typical hand-held benchtop assembly lines
- Moreover, as part of a Fishman® Fiber Optic Benchtop Automation System, a single SmartReload™ Station can service multiple cells

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System Ordering Options

OPTION 1

DAA0041 – Fiber Optic Benchtop Automation System Includes:

- SmartDispenser® AirFree® Fluid Dispensing System
- High Precision Benchtop Robot
- LC, MT, SC Fiber Optic Connector SmartApp™
- SmartReload™ Station includes:
 - SmartDispenser® AirFree® Controller
 - SmartDispenser® AirFree® Controller Table Mount
 - SmartDispenser® Gun Tray
 - Dispense Tip Locator
 - USB Memory Stick
 - Genius™ Syringe Holding Rack
 - SmartDispenser® LDS Dispense Gun

TBD Genius™ Precision ConnectorMount™

- Custom Design to a Specific Fiber Optic Connector
- Part Number Assigned at Time of Design

OPTION 2

DAB0041 – Fiber Optic Benchtop Automation System Includes:

- SmartDispenser® AirFree® Fluid Dispensing System
- High Precision Benchtop Robot
- LC, MT, SC Fiber Optic Connector SmartApp™
- Floor Standing Safety Glass Enclosure for FO Benchtop Automation System
- SmartReload™ Station includes:
 - SmartDispenser® AirFree® Controller
 - SmartDispenser® AirFree® Controller Table Mount
 - SmartDispenser® Gun Tray
 - Dispense Tip Locator
 - USB Memory Stick
 - Genius™ Syringe Holding Rack
 - SmartDispenser® LDS Dispense Gun

TBD Genius™ Precision ConnectorMount™

- Custom Design to a Specific Fiber Optic Connector
- Part Number Assigned at Time of Design

OPTION 3

DAC0041 – Fiber Optic Benchtop Automation System Includes:

- SmartDispenser® AirFree® Fluid Dispensing System
- High Precision Benchtop Robot
- LC, MT, SC Fiber Optic Connector SmartApp™
- Floor Standing Safety Glass Enclosure for FO Benchtop Automation System
- Laser Light Curtain
- SmartReload™ Station includes:
 - SmartDispenser® AirFree® Controller
 - SmartDispenser® AirFree® Controller Table Mount
 - SmartDispenser® Gun Tray
 - Dispense Tip Locator
 - USB Memory Stick
 - Genius™ Syringe Holding Rack
 - SmartDispenser® LDS Dispense Gun

TBD Genius™ Precision ConnectorMount™

- Custom Design to a Specific Fiber Optic Connector
- Part Number Assigned at Time of Design

Note: Genius® Precision ConnectorMounts™ are custom quoted. A ballpark price range is included for budgetary purposes and is not fixed. Complexity of the fiber optic connector will determine final price.

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