



**Manufacturer:**  
Fishman®

**Product Name:**  
Fishman Fiber Optic Benchtop Automation System (option 3)  
with laser curtain assembly/safety barrier

**Manufacturer Part Number:**  
DAC0041



▶ Click here for more details on the Fishman Fiber Optic Benchtop Automation System (option 3) with laser curtain assembly/safety barrier

## 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.**

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23 Centre Street • New Bedford, MA 02740 USA

*Product specifications and data are subject to change without notice.*



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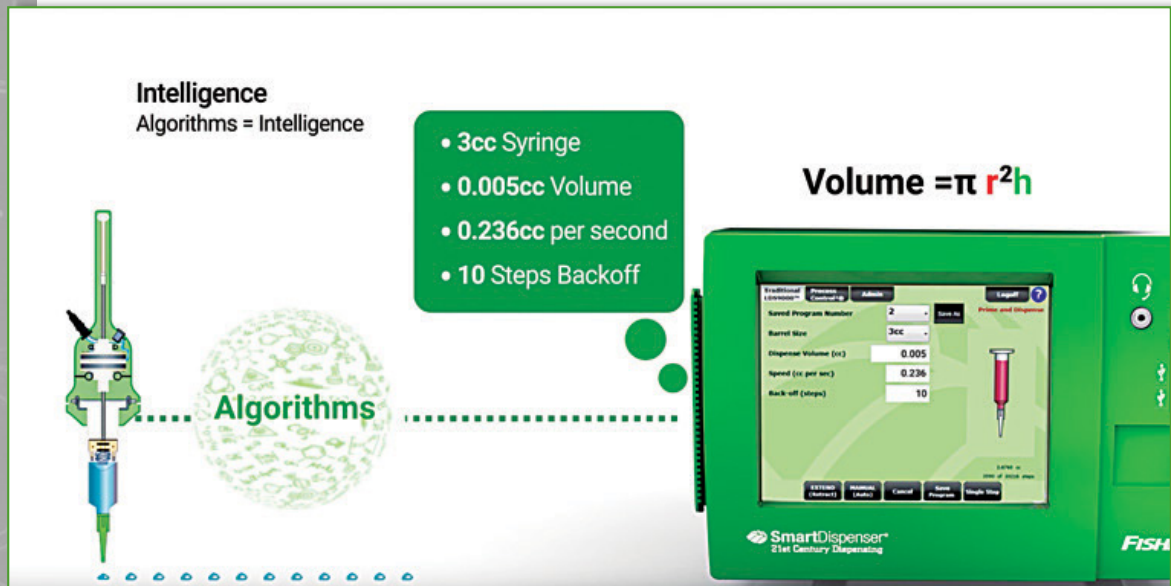
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## How the System Works



### 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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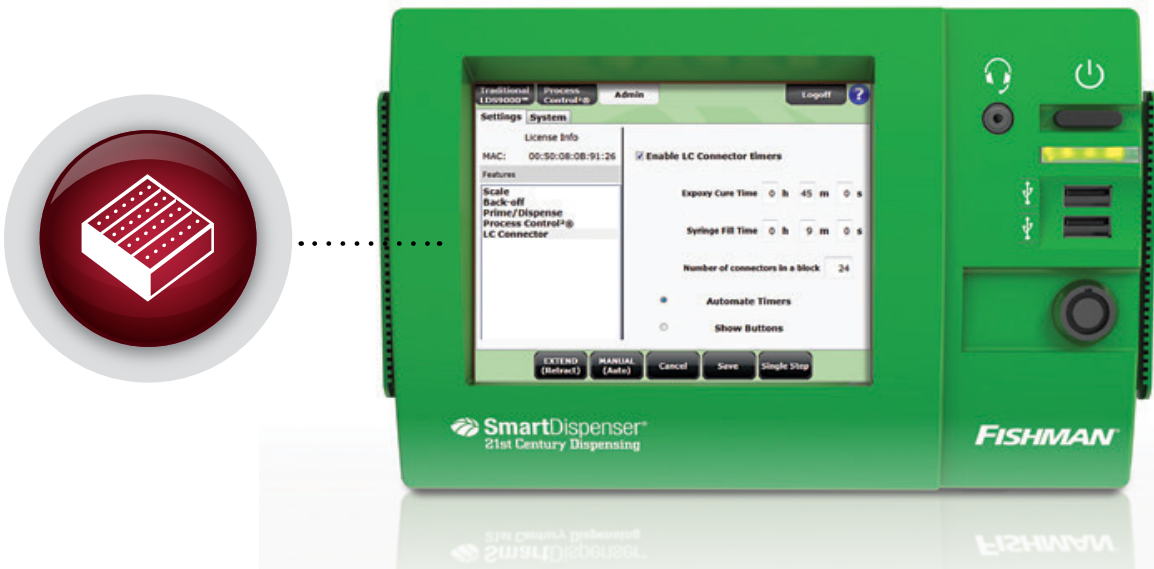
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## How the System Works



### 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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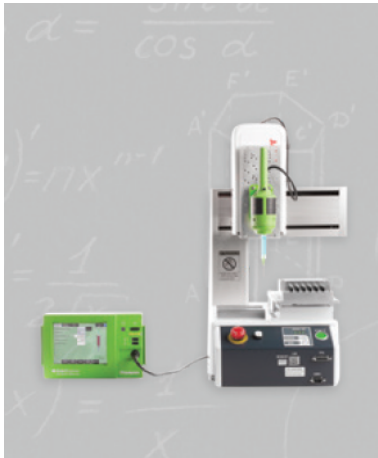
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## System Ordering Options

### 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

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**OPTION 3**

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- 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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