



# SmartDispenser®

## SSDAV High Torque Benchtop Fiber Optic System



**SmartDispenser® Super Small Dot Any Viscosity**  
 Use this model for encapsulating fiber optic connectors, ideal for a blind fill into the fiber optic connector ferrule. The SmartDispensers® patented ProcessControl<sup>2</sup>® was designed to provide the highest repeatability, from one dispense to the next, single component adhesive and two component epoxy.

## AirFree® Technology

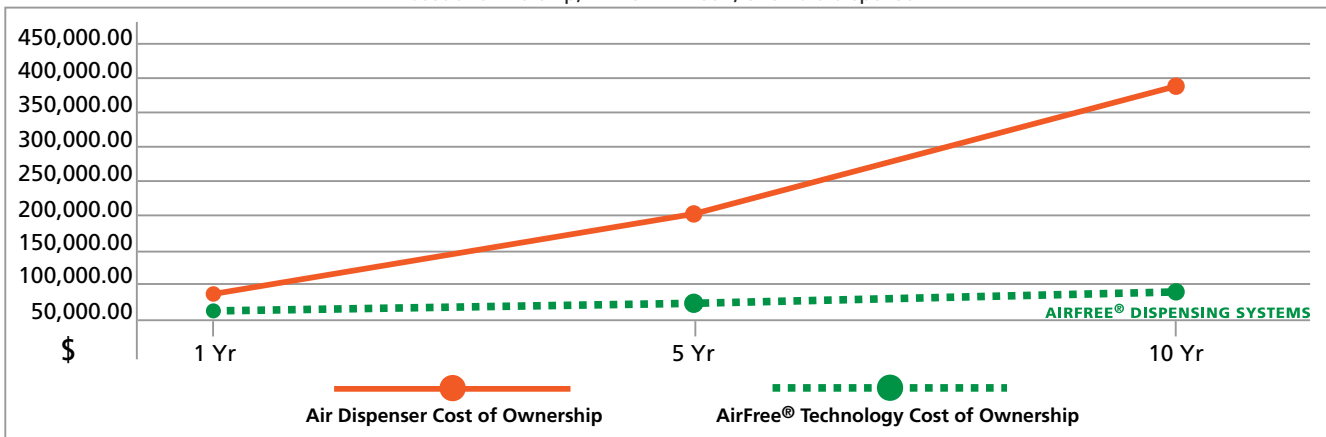
The SmartDispenser® SSDAV-HT-FO Benchtop System is ideal for dispensing epoxies for bonding glass fiber to ceramic ferrules. The ProcessControl<sup>2</sup>® program, manages two part epoxies, such as 353ND, and other fiber optic assembly fluids so each ferrule is filled without over flow or air gaps.

Traditional air pressure systems lack the repeatability from one fluid deposit to the next needed for fiber optic connector assembly. AirFree® technology stabilizes the fluid dispensing process providing the highest repeatability when compared to any fluid dispenser.

### Total Cost of Ownership

#### AirFree® Technology Adds Profits When Replacing Air Driven Systems


Cost of ownership, Air vs. AirFree®, one fluid dispenser



# SmartDispenser® SSDAV High Torque Benchtop Fiber Optic System


## SSDAV Super Small Dot Any Viscosity

| SYRINGES SIZE        | 3CC    | 5CC    | 10CC   |
|----------------------|--------|--------|--------|
| MIN.VOL. (CC)        | .00011 | .00019 | .00031 |
| MAX. VOL. (CC)       | 3.0    | 5.0    | 10.0   |
| MIN. RATE (CC/SEC)   | .003   | .005   | .008   |
| MAX. RATE (CC/SEC)   | .065   | .114   | .188   |
| MAX. BACKOFF (STEPS) | 500    | 500    | 500    |
| MAX. DELAY (SEC)     | 9.99   | 9.99   | 9.99   |



The SmartDispenser® SSDAV-HT-FO (3-10cc) comes with 3-10cc Dispense Gun and 3, 5, 10cc Retaining Rings.

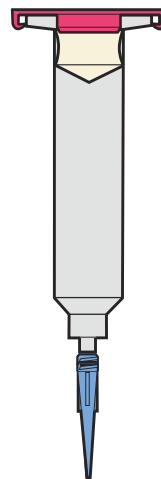
| SYRINGES SIZE        | 30CC   |
|----------------------|--------|
| MIN.VOL. (CC)        | .00062 |
| MAX. VOL. (CC)       | 30.0   |
| MIN. RATE (CC/SEC)   | .015   |
| MAX. RATE (CC/SEC)   | .370   |
| MAX. BACKOFF (STEPS) | 500    |
| MAX. DELAY (SEC)     | 9.99   |



The SmartDispenser® SSDAV-HT-FO (30cc) comes with 30cc Dispense Gun and 30cc Retaining Rings.

## Genius® Dispensing Components

Genius® dispensing components have a thick wall design eliminating flexing and a zero draft assuring smooth flow. Disposable design eliminates the use of harmful cleaning agents such as mek or acetone. The polypropylene reservoir protects assembly workers from coming in contact with harmful assembly fluids. When empty the capped syringe acts as a sealed container making disposal easier and safer.



Hiflow™ dispense tips are made from 19g (.042"- O.D.) and 20g (.035"- O.D.) which fit perfectly into the fiber optic ferrule's port. The inner diameter of both tips are 15% larger allowing for a higher flow rate of fluid which eases the ferrule filling process.

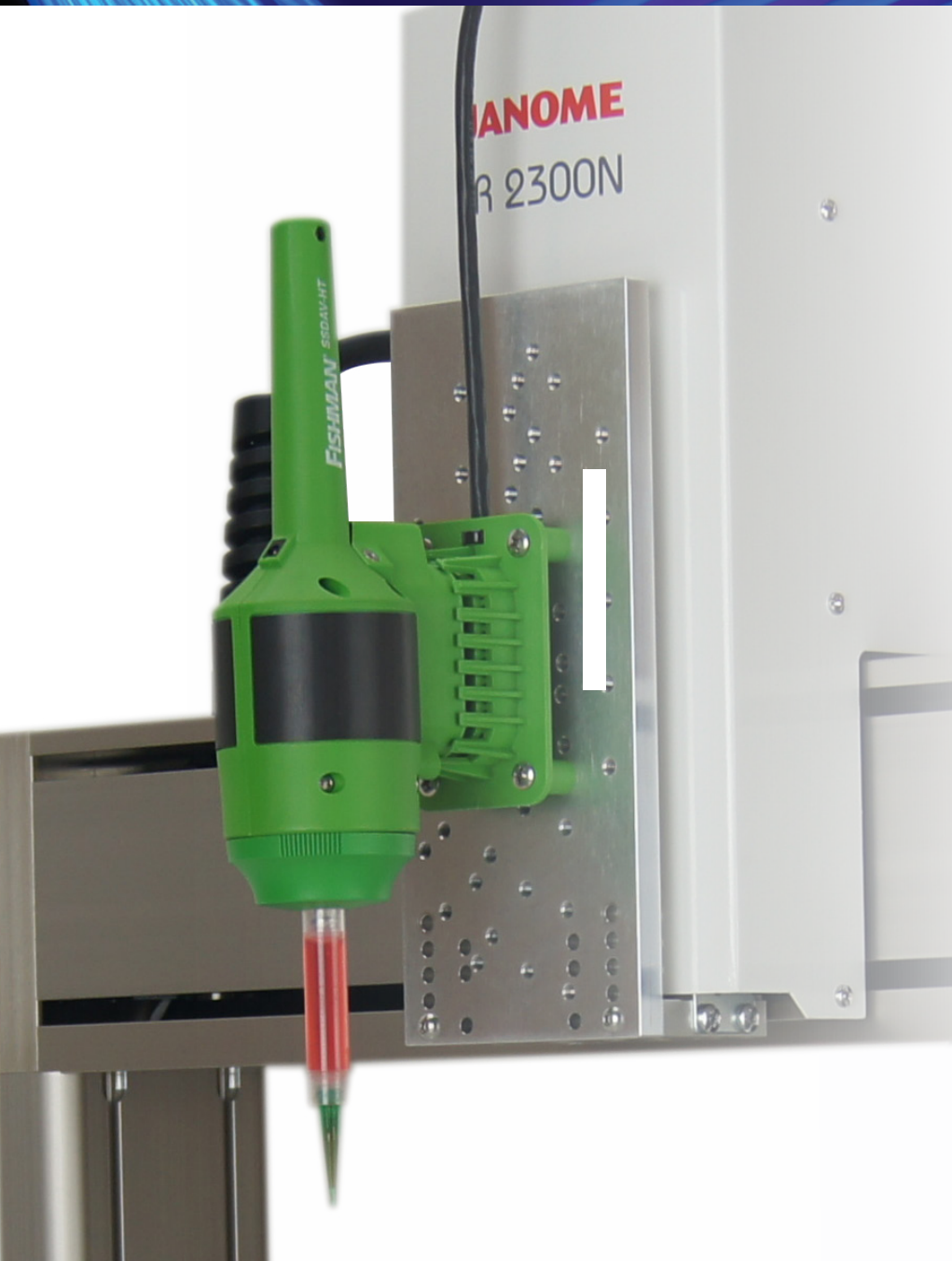


### THE SMARTDISPENSER® SSDAV-HT-FO 3-30CC DISPENSE STARTER KIT CONTENTS

- Foot Pedal
- Keyboard
- Mouse
- Earphone
- Video Camera
- Cisco Wireless Connectivity Device
- Needle Kit
- Manuals
- Power Supply Connection
- Universal Power Supply



# SmartDispenser® SSDAV High Torque Benchtop Fiber Optic System



## SPECIFICATIONS

|                          |   |
|--------------------------|---|
| Usage:                   | Indoor use  |
| Altitude:                | Up to 2000m   |
| Temperature:             | 0° to 40° C   |
| Maximum Relative:        | 80% for temperatures up to 31° C decreasing linearly to |
| Humidity:                | 50% relative humidity at 40° C                          |
| Mains Supply             |   |
| Voltage Fluctuations:    | Not to exceed ±10%                                      |
| Installation             |   |
| Overvoltage:             | Category II   |
| Pollution:               | Degree 2, Class 1                                       |
| Input Voltage:           | 100-240 VAC<br>47-63Hz                                  |
| Max Inrush Current:      | 3.2A-1.8A   |
| Output Voltage:          | 5.0VDC  |
| Output Power:            | 4.6W  |
| Fuse Rating:             | 1.0A/250 VAC  |
| Initiate Circuit:        | Foot Pedal (dry contact)<br>finger switch               |
| Drive Motor:             | SSDAV-HT-FO .9 Degree<br>400 Steps/Rev                  |
| Axial Movement:          | SSDAV-HT-FO .24 Axial Pitch<br>.00006"/Step             |
| Control Circuitry:       | CMOS microprocessor                                     |
| Interface:               | Touchscreen or Keyboard/Mouse                           |
| Minimum Dispense Volume: | 0.00011ml   |

## CONTROL CENTER

|         |   |
|---------|---|
| Size:   | 5.6 x 9.9 x 6.3in<br>(14.23 x 25.15 x 16cm) |
| Weight: | 4.7lbs (2.13 kg)                            |

## GUN

|               |                 |
|---------------|-----------------|
| Length:       | 7in (17.8cm)    |
| Weight:       | 6oz (170.1 gr)  |
| Cable Length: | 3 feet (91.5cm) |

## What makes the SmartDispenser® so smart? The combination of 3 powerful platforms.

### AIR-FREE MANUFACTURING

- One program – worldwide
- Closed-loop feedback
- 6-10X more repeatable than pneumatics
- Volume base numeric dispensing
- Positive displacement via stepper motor
- Firmware proven for over a decade
- Eliminates expensive air compressor
- Designed to integrate into automation systems using PLCs

### WINDOWS 7 NETWORKING

- SD Device to MES System Networking
- Remote programming and lock out
- Real time production data
- Live video feed
- Auto e-mail of unauthorized program changes
- On screen work instruction (audio option)
- Connectivity between SmartDispensers® Desktop, Laptop and Smartphone.
- Video/Audio training and tutorials

### SMARTPHONE FUNCTIONALITY

- Touch screen
- Finger gesturing controls
- MES Networking Apps
- Custom Manufacturing Apps

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**FISHMAN®**  
 Dispensing Innovation™