

SmartDispenser® PENCIL GUN 3 & 5cc FIBER OPTICS SYSTEM



**SmartDispenser®
3 & 5cc Pencil Gun**
Use this model for encapsulating fiber optic connectors; ideal for a blindfill into the fiber opticconnector ferrule. The SmartDispenser's patented ProcessControl2® was designed to provide the highest repeatability from one dispense to the next; single component adhesive and two component epoxy.

Pencil Gun - FO

AirFree® Technology

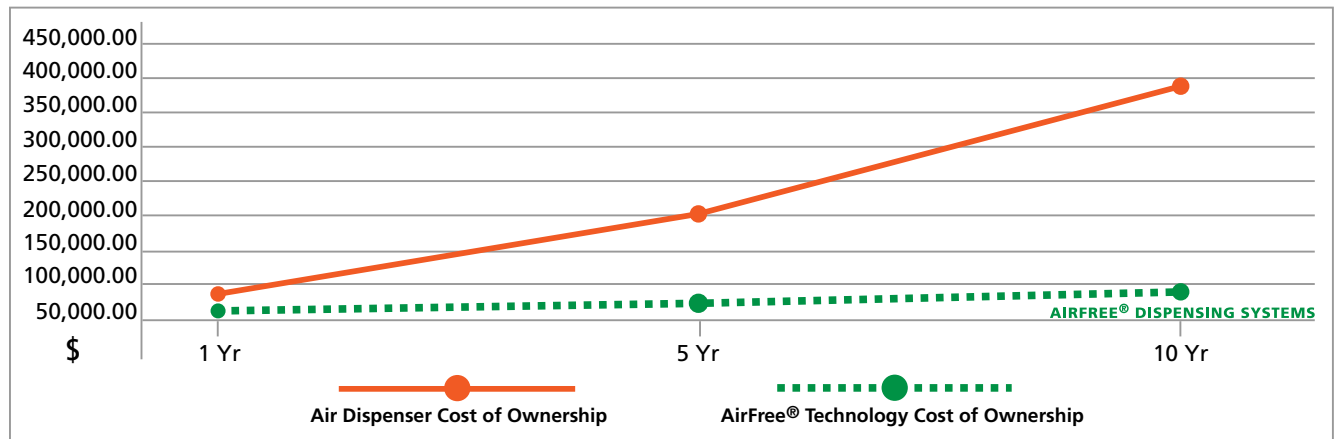
The SmartDispenser® 3 & 5cc Fiber Optic Pencil Gun Benchtop System is ideal for dispensing epoxies for bonding glass fiber to ceramic ferrules. The ProcessControl2® program, manages two part epoxies, such as 353ND, and other fiber optic assembly fluids so each ferrule is filled without over flow or air 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



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Pencil Gun Micro Dot – Any Viscosity

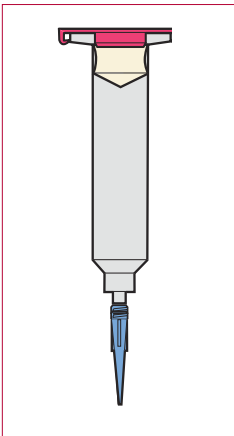
| BARREL SIZE | 3CC | 5CC |
|----------------------|--------|--------|
| MIN. VOL. (CC) | .00006 | .00010 |
| MAX. VOL. (CC) | 3.0 | 5.0 |
| MIN. RATE (CC/SEC) | .001 | .002 |
| MAX. RATE (CC/SEC) | .033 | .053 |
| MAX. BACKOFF (STEPS) | 500 | 500 |
| MAX. DELAY (SEC) | 9.99 | 9.99 |



The SmartDispenser® Pencil Gun comes with 3 & 5cc Retaining Rings.

Genius® FO 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.



SMARTDISPENSER® SDAV-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® PENCIL GUN 3 & 5cc FIBER OPTICS 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 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) finger switch |
| Drive Motor: | 15 Degrees |
| Gear Head: | 64:1 |
| Axial Movement: | .00003"/step |
| Control Circuitry: | CMOS microprocessor |
| Interface: | Tactile key pad |
| Minimum Dispense Volume: | .00006cc |

CONTROL CENTER

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

GUN

| | |
|---------------|-------------------|
| Length: | 5.12 in (13.00cm) |
| Weight: | 5.22 oz (148gr) |
| 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
- Bar Code scanning Apps