

SmartDispenser®

MDAV High Torque Automation CA Integration Kit (SDIK™)



SmartDispenser® SDIK™
Medium Dot Any Viscosity
 Use this model for dispense volumes between .00043 & 30cc, ideal for medium dot to medium bead dispensing. For use with industrial grade Genius® CA reservoirs and dispense tips.

MDAV-HT-CA-SDIK™

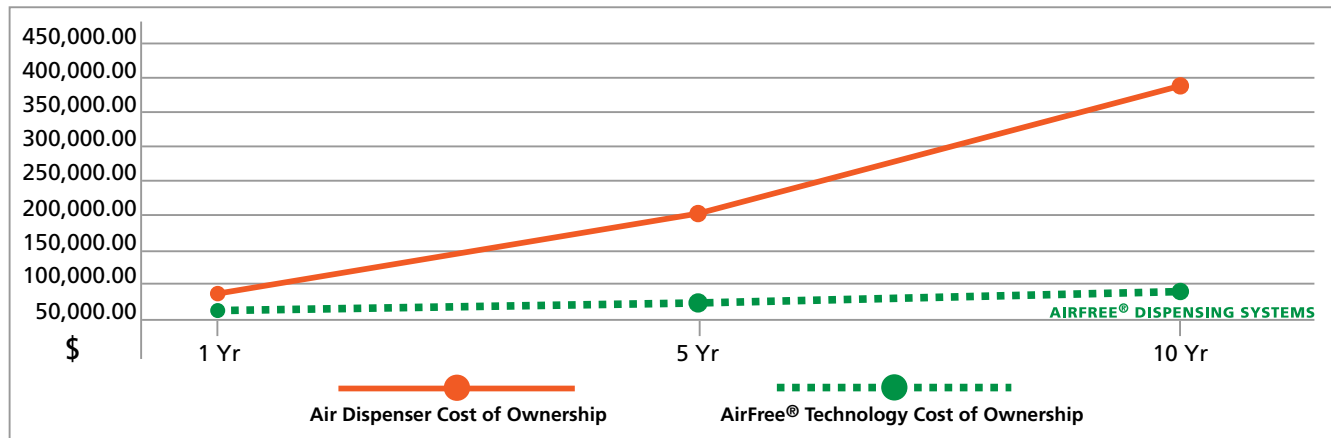
AirFree® Technology & Cyanoacrylate

Traditional air pressure systems inject moisture filled air into the syringe reservoir activating the cyanoacrylate (CA) cure cycle. AirFree® technology eliminates moisture filled air from the dispensing process protecting the CA formulation. As a secondary safeguard Genius® CA components are made from a proprietary plastics that inhibit CA bonding between components.

Total Cost of Ownership

AirFree® Technology Adds Profits When Replacing Air Driven Systems

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



SmartDispenser® MDAV High Torque Automation CA Integration Kit (SDIK™)

MDAV-HT-CA-SDIK™ Medium Dot Any Viscosity

SYRINGE SIZE	3CC	5CC	10CC
MIN. VOL. (CC)	.00043	.00076	.00125
MAX. VOL. (CC)	3.0	5.0	10.0
MIN. RATE (CC/SEC)	.011	.019	.031
MAX. RATE (CC/SEC)	.259	.454	.750
MAX. BACKOFF (STEPS)	500	500	500
MAX. DELAY (SEC)	9.99	9.99	9.99



The SmartDispenser® MDAV-HT-CA-SDIK™ (3-10cc) comes with 3-10cc Push-To-Connect™ Dispense Gun and 3, 5, 10cc Retaining Rings.

SYRINGE SIZE	30CC
MIN. VOL. (CC)	.00247
MAX. VOL. (CC)	30.0
MIN. RATE (CC/SEC)	.062
MAX. RATE (CC/SEC)	1.481
MAX. BACKOFF (STEPS)	500
MAX. DELAY (SEC)	9.99



The SmartDispenser® MDAV-HT-CA-SDIK™ (30cc) comes with 30cc Push-To-Connect™ Dispense Gun and 30cc Retaining Rings.

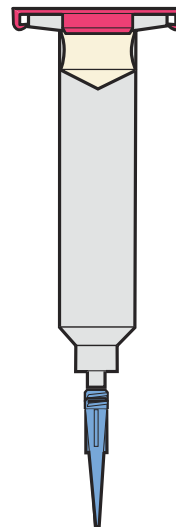


SMARTDISPENSER® MDAV-HT-CA-SDIK™ 3-30CC DISPENSE STARTER KIT CONTENTS

- Finger Switch
- USB Extension Cable
- Push-To-Connect Gun
- Video Camera
- Cisco Wireless Connectivity Device
- Needle Kit
- Manuals
- Power Supply Connection
- Universal Power Supply

Genius® Cyanoacrylate Dispensing Components

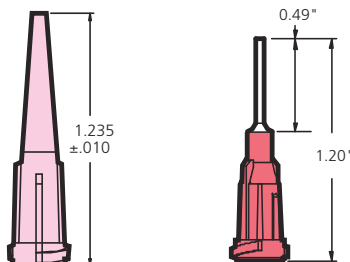
Genius® CA dispensing components are designed from a proprietary plastic that prevents the CA from bonding the syringe piston to the syringe barrel and the syringe tip cap to the syringe luer.



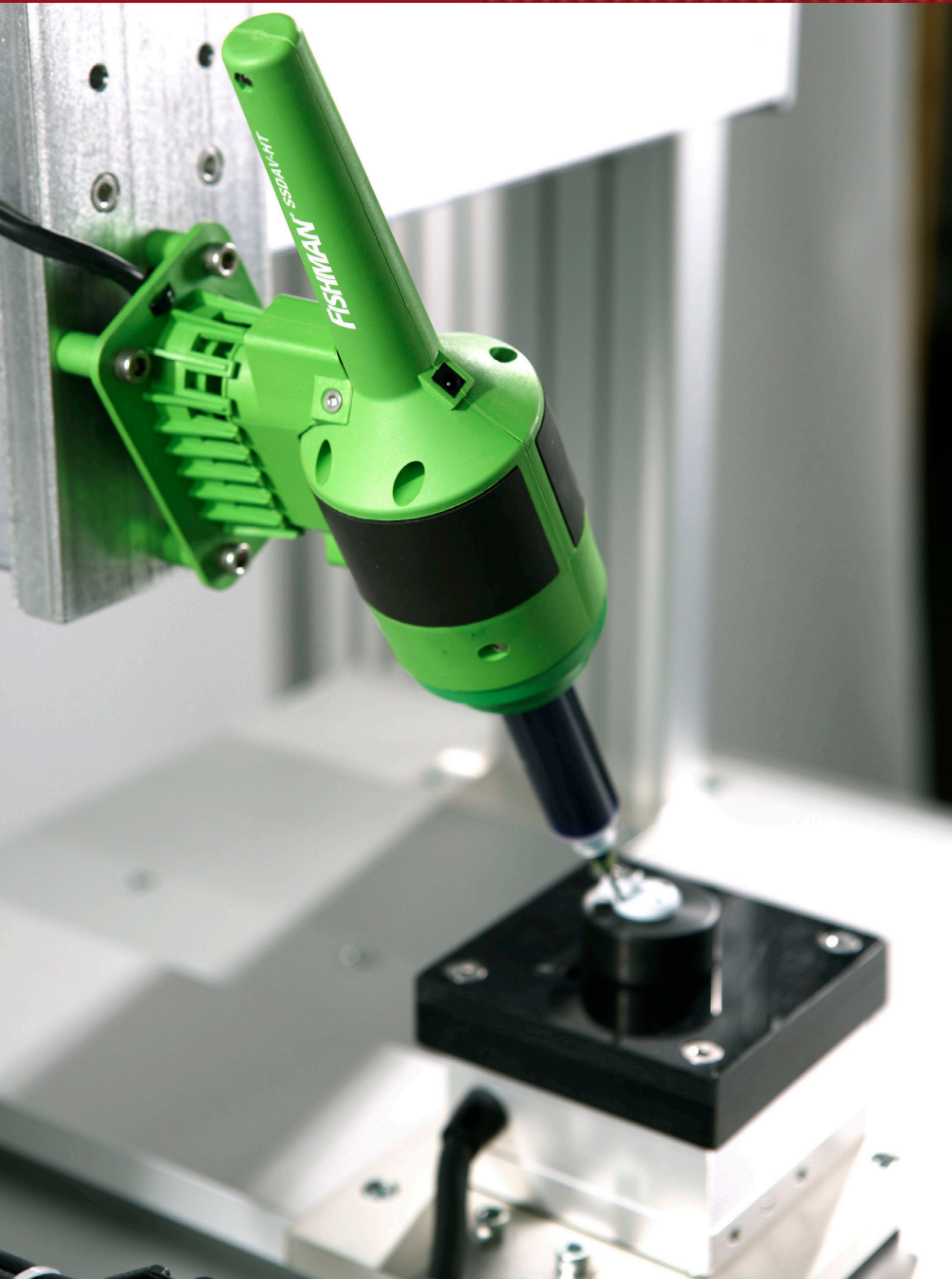
Genius® CA FreeFlow™ Tips and Teflon® Tips

Genius® FreeFlow™ CA Tips and Teflon®* Tips both prevent CA from clogging the tip during the fluid dispensing process.

*Teflon is a registered trademark of the Dupont Corporation.



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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:	PLC Input
Drive Motor:	MDAV-HT-CA-SDIK™ 1.8 Degree 200 Steps/Rev
Axial Movement:	MDAV-HT-CA-SDIK™ .048 Axial Pitch .00024"/Step
Control Circuitry:	CMOS microprocessor
Interface:	DVI Monitor/Mouse/Keyboard
Minimum Dispense Volume:	0.00043ml

CONTROL UNIT

Size:	2.95 x 7.85 x 4.94in (7.5 x 20 x 12.6cm)
Weight:	3lbs (1.36kg)

GUN

Length:	7in (17.8cm)
Weight:	11oz (312gr)
Cable Length:	30 Feet Detachable (9.144m)

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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