SmartDispenser[®] LDAV HIGH TORQUE CA BENCHTOP AUTOMATION SYSTEM



SmartDispenser® Large Dot Any Viscosity Use this model for dispense volumes between .00086 & 30cc, ideal for large dot and potting. For use with industrial grade Genius® CA reservoirs and dispense tips.

AirFree® Technology & Cyanoacrylate

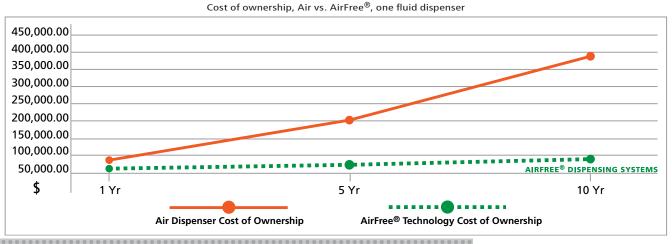
Traditional air pressure systems inject moisture filled air into the syringe reservoir activating the cyanoacrylate (CA) cure cycle. AirFree® technology eliminates moisture filled air from the dispensing process protecting the CA formulation. As a secondary safeguard Genius® CA components are made from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

AirFree® Technology & Automation

AirFree® technology acts as an additional axis when mounted on a benchtop automation system. The precise control engineered into the X, Y and Z axis is now applied to the fluid delivery axis. All axes are motor driven lead screws with known speeds and can be coordinated providing the highest precision and repeatability available on a benchtop robot.

Total Cost of Ownership

AirFree® Technology Adds Profits When Replacing Air Driven Systems



Fishman Corporation192 South Street, Hopkinton, MA 01748, United StatesUS & Canada: 800-433-2115 | United Kingdom: 1905 456008 | Europe: +441905 456008Worldwide: 1-508-435-2115 | www.fishmancorp.com



SmartDispenser[®] LDAV HIGH TORQUE CA BENCHTOP AUTOMATION SYSTEM

LDAV-HT-CA-BA Large Dot Any Viscosity

MIN.VOL. (CC) .00086 .00151 .00251 MAX. VOL. (CC) 3.0 5.0 10.0 MIN. RATE (CC/SEC) .022 .038 .063	
MIN RATE (CC/SEC) 022 038 063	
MIN. NATE (CC/SEC) .022 .050 .005	
MAX. RATE (CC/SEC) .518 .908 1.504	
MAX. BACKOFF (STEPS) 500 500 500	
MAX. DELAY (SEC) 9.99 9.99 9.99	



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

BARREL SIZE	30CC	
MIN.VOL. (CC)	.00494	
MAX. VOL. (CC)	30.0	
MIN. RATE (CC/SEC)	.123	
MAX. RATE (CC/SEC)	2.963	
MAX. BACKOFF (STEPS)	500	
MAX. DELAY (SEC)	9.99	

The SmartDispenser® LDAV-HT-CA-BA (30cc) comes with 30cc Dispense Gun and 30cc Retaining Rings.

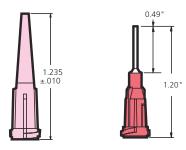
Genius® Cyanoacrylate Dispensing Components

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.

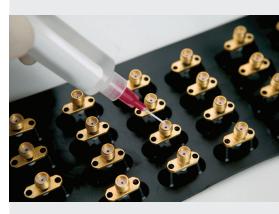
Genius[®] CA FreeFlow[™] Tips and Teflon[®] Tips

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.







SMARTDISPENSER® LDAV-HT-CA-BA 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[®] LDAV HIGH TORQUE CA BENCHTOP AUTOMATION SYSTEM



SPECIFICATIONS

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Usage:	Indoor use			
Altitude:	Up to 2000m			
Temperature:	0° to 40° C			
Maximum Relative:	tive: 80% for temperatures up to 31° C decreasing linearly to			
Humidity:	50% relative hum at 40° C	umidity		
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: Drive Motor:	Dry contact LDAV-HT-CA-BA	1.8 Degree 200 Steps/Rev		
Axial Movement:	LDAV-HT-CA-BA	.096 Axial Pitch .00048"/Step		
Control Circuitry:	CMOS microproce	ssor		
Interface:	Touch Screen or Ke	yboard/Mouse		
Minimum Dispense Volume:	0.00086ml			

CONTROL UNIT

Size: Weight:

5.6 x 9.9 x 6.3in (14.23 x 25.15 x 16cm) 4.7lbs (2.13 kg)

GUN

Length:	7in (17.8cm)
Weight:	10.6oz (301 g
Cable Length:	3 feet (91.5cm

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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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JANOME

SmartDispenser[®] ldav high torque ca benchtop automation system

JANOME FEATURES

High Precision

High Rigid Structure

A solid aluminum alloy is employed on the base and an aluminum alloy extention with a high rigid section is employed on the column

Labyrinth Mechanism

A social labyrinth mecharism underneath the work table keeps foreign oblects (e.g. screws, liquid or dust) out.



Smooth Movement

Smooth movement is attained with the micro-step controle system

Flexible Interface

- RS-232C port for PC connection
- RS-422 port for teaching pendant
- I/O (Output 16, Input 16)

User Friendly

Clear Wide Screen

Wide and easy viewable teaching pendant screen Language: English/German/Japanese etc.. Measurement: mm/inch

Simple Teaching

Using the JN C-Points software users can teach dates easily. It also has commands to operate particular jobs. Users can also create their own original software.

Simple Teaching

Using the JN C-Points software users can teach dates easily. It also has commands to operate particular jobs. Users can also create their own original software.

Enhanced Memory Capacity

Up to 255 programs (2.5 times that of the exitisting model) and 30,000 points (increased 5-fold) can be stored as teaching data.

Simple Sequencer

The robot has a built-in simple sequencer which functions independently (it is not necessary to add more hardware in the case of siumple PLC connection).

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SmartDispenser[®] Ldav High Torque ca Benchtop Automation System

JANOME SPECIFICATIONS

				(CL) Indicat	tes Clean Roor	n Compatible
	Model ^{*1}	JR2203N (CL)	JR2303N	JR2403N	JR2503N	JR2603N
Operating Range	X · Y Axes (mm)	200×200	300×320	400×400	510×510	510×620
Operating hange	Z Axis (mm)	50	100		150	
Maximum Portable	Workpiece(kg)	7		11	I	
Load	Tool(kg)	3.5		6		
Maximum Speed ^{*2}	X · Y Axes (mm/sec)	700		80	0	
<ptp movement=""></ptp>	Z Axis (mm/sec)	250		32	0	
Maximum Speed ^{*2} <cp movement=""></cp>	X · Y · Z Axes Combined Speed(mm/sec)	500		80	0	
Repeatability ^{*3}	X Axis • Y Axis (mm)	±0.006	±0.0	007	±0.008	±0.008 (X Axis) ±0.01 (Y Axis)
	Z Axis (mm)	±0.006	±0.0	007	±0.008	±0.008
External Dimensions	WxDxH(mm) (excluding cables and protrusions)	320×387×540	560×529×649.5	584×629×799	676×731×799	788×731×799
Ма	in Unit Weight(kg)	18	35	42	46	48

	Model ^{*1}	JR2204N(CL)	JR2304N	JR2404N	JR2504N	JR2604N
	X · Y Axes (mm)	200×200	300×320	400×400	510×510	510×620
Operating Range	Z Axis (mm)	50	100		150	
	R Axis (°)			±360		
Maximum Portable	Workpiece(kg)	7		1	1	
Load	Tool(kg)	3.5		(6	
	X · Y Axes (mm/sec)	700		80	00	
Maximum Speed ^{*2}	Z Axis (mm/sec)	250		32	20	
	R Axis (°/sec)	600		80	00	
Maximum Speed ^{*2} <cp movement=""></cp>	X · Y · Z Axes Combined Speed(mm/sec)	500		80	00	
	X Axis · Y Axis (mm)			±0.01		
Repeatability ^{*3}	Z Axis (mm)			±0.01		
	R Axis (°)			±0.008		
External Dimensions	WxDxH(mm) (excluding cables and protrusions)	320×387×655	560×529×840	584×629×890	676×731×890	788×731×890
Ma	uin Unit Weight(kg)	18	35	42	46	48

¹2-axes models are also available. (Please contact us for further information.)

²Maximum speed cannot be achieved when the robot is bearing its maximum portable load.

^{'3}Repeatability does not guarantee absolute precision.



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SmartDispenser[®] Ldav high torque ca benchtop automation system

JANOME SPECIFIC	CATIONS CONTINUED
Drive Method	Pulse Motor
Control Method	PTP (Point to Point) control, CP (Continuous Path) control
Interpolation	3-dimensional linear and arc interpolation
Teaching Method	Remote teaching (JOG)/Manual Data Input (MDI)
Teaching System	 Direct teaching using the optional teaching pendant Off-line teaching with JR C-Points software from a PC
Program Capacity	255 Programs
Data Capacity*4	Up to 30,000 Points
External Interface	RS422 1ch (for teaching pendant) RS232C 1ch (for PC interface: COM1) RS232C 2ch (for external devices: COM2, COM3) (optional)
External Input/Output	I/O-SYS 16 Inputs, 16 Outputs I/O-1 (optional) 8 Inputs, 8 Outputs (including 4 relay outputs)
Simple PLC Function	100 programs (1,000 steps/program)
Power Source	AC90~1323V/AC180~250V (single phase)
Power Consumption	200W

*4 Point data capacity reduces as the total function data setting/point job data/sequencer data increases, due the shared data storage area.

· CE compliant models are also available.

· Specifications may be modified without prior notice to improve product quality.



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