



1001 Trout Brook Crossing  
 Rocky Hill, CT 06067-3910  
 Telephone: (860) 571-5100  
 FAX: (860) 571-5465

## Product Description Sheet

### 300D Benchtop Robot 12V Item # 1326775

North American Engineering Center

#### PRODUCT DESCRIPTION

The Loctite® 300D Benchtop Robot has features and accessories that are custom tailored for adhesive dispensing processes. The range of operation is 300 mm by 300 mm by 100 mm (X-Y-Z). This unit is fully compliant with RIA (Robotic Industry Association) safety guidelines. Programming accessories, dispensing equipment, integration cables and mounting hardware are sold separately.



#### TECHNICAL SPECIFICATIONS

Attribute		Value
<b>Number of controllable axes</b>		3
<b>Range of operation</b>	X axis	300 mm
	Y axis	300 mm
	Z axis	100 mm
<b>Portable weight</b>	Work Surface	10.0 kg
	Tool Head	5.0 kg
<b>Maximum Speed</b>	PTP (X,Y)	600 mm/s
	PTP (Z)	320 mm/s
<b>Repeatability accuracy</b>	X, Y, Z axis	± 0.01 mm
<b>Resolution</b>		0.001 mm
<b>CPU</b>		32 bit
<b>Display</b>		Teach Pendant LCD
<b>Control method</b>		Point to Point and Continuous Path
<b>Drive method</b>		3-phase stepping motor
<b>I/O Signals</b>		8 inputs / 8 outputs
<b>Teaching Method</b>		Teach Pendant
<b>Program capacity</b>		100 programs
<b>Data memory capacity</b>		4,000 points/program
<b>Dimensions</b>	Width	485 mm
	Depth	500 mm
	Height	600 mm
<b>Weight</b>		32 kg
<b>Power source – auto switching</b>		95-132 VAC 150 watt 180-250 VAC 150 watt
<b>Working environment</b>	Temperature	0 - 40°C
	Humidity	20 - 90% RH
<b>Parts Included:</b>		
<ul style="list-style-type: none"> <li>• Robot and Operating Manual</li> <li>• Syringe Holder, 30-55 ml. fixed. Item # 1328355</li> <li>• External Control Shorting Connector; 7-pin female.</li> <li>• Dispensing Cable; 3-pin round female to 9-pin male "D" shell.</li> <li>• Mounting Screw for Syringe Holder</li> <li>• AC Power Cord</li> </ul>		

#### PRODUCT FEATURES

- Designed for adhesive dispensing.
- Independent dispense on / off purge control button on front panel allows adhesive to be purged from a dispense valve to prevent curing or for aiding initial set-up. No special programming required. Useful for set-up and purging of two-part materials that have a very short pot life.
- Integrated solution – plug and play accessories.
- Software utility program compensates for positional offsets when dispense needle tips or barrels are changed.
- Teach Pendant program storage capabilities allows dispense program to be easily transferred from Robot to Robot.
- Over-speed error indicator prevents Robot from traveling too fast during the execution of the program.
- 100 programs, 4,000 points memory per program
- No programming experience required.

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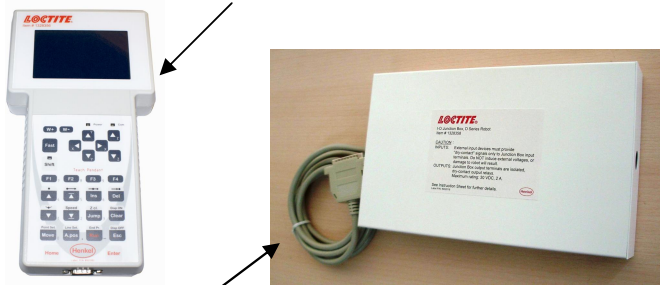
### PROGRAMMING

The Robot utilizes a specially designed, multi-line, Teach Pendant that allows for simple programming with user-friendly prompts. The Operating Manual provides step-by-step instructions for programming. No previous programming experience is required.

### INTEGRATION ACCESSORIES (not included):

Loctite® brand cables and junction boxes provide plug-and-play integration solutions for a variety of Loctite® dispensing systems.

**1328356** Teach Pendant for 200D, 300D, & 400D Benchtop Robots



**1328358** - Robot I/O Junction Box for 200D, 300D, & 400D Benchtop Robots. Provides a convenient connection point between robots and up to 8 external devices including all Loctite® dispensers, UV Wands, Loctite® light curtains, LED cure systems, Posi-Link™ Volumetric Dispensing System. Allows multiple systems integration simultaneously. This junction box accepts up to 8 inputs and 8 outputs.

**1329222** - Interface Cable for 200D, 300D, & 400D Benchtop Robots.

**1328354** – Solenoid Valve Module, 12 volt for 200D, 300D, & 400D Benchtop Robots.

Loctite Item Number	Description
<b>Accessories</b>	
1328356	Teach Pendant, Benchtop Robots
1329222	Interface Cable, Benchtop Robots
1328358	I-O Junction Box, Benchtop Robots
1328354	Solenoid Valve Module, 12V, Benchtop Robots

### SYRINGE DISPENSING EQUIPEMENT

Syringe dispensing is commonly used as a low cost fluid delivery system when the dispensing volumes are small.

Part No.	Description
<b>Dispensers</b>	
883976	Syringe dispensing system, digital
97006	Syringe dispensing system, precision digital
See Web site	Posi-Link™ Volumetric Dispensing System
<b>Syringes</b>	
98479	3 ml, clear syringe barrel and piston
98481	3 ml, black syringe barrel and piston
98483	5 ml, clear syringe barrel and piston
98485	5 ml, black syringe barrel and piston
97207	10 ml, clear syringe barrel kit
97263	10 ml, black syringe barrel kit
97244	30 ml, clear syringe barrel kit
97264	30 ml, black syringe barrel kit
98314	55 ml clear syringe barrel kit
98315	55 ml black syringe barrel kit
<b>Air Line Adapters</b>	
98656	3 ml syringe air line adapter
98657	5 ml syringe air line adapter
97208	10 ml syringe air line adapter
97245	30 and 55 ml syringe air line adapter

### 300 ML CARTRIDGE DISPENSING EQUIPMENT

300 ml cartridge dispensing is commonly used as a low cost fluid delivery system when the dispense volumes are large.

Part No.	Description
<b>Dispensers</b>	
883976	Syringe dispensing system, digital
97006	Syringe dispensing system, digital precision
<b>300 ml cartridge adapter</b>	
98319A	300 ml pneumatic cartridge adapter
98022	300 ml cartridge pusher

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#### VALVE DISPENSING EQUIPMENT

Valve dispensing is typically used with large dispense volume to minimize the downtime associated with package change-out and to improve the bead precision, particularly the knit line.

Part No.	Description
<b>Valves</b>	
98009	Light cure dispense valve
98013	Cyanoacrylate dispense valve
97113	Stationary dispense valve with 1/4" feedline
97114	Stationary dispense valve with 3/8" feedline
983914	Poppet valve
<b>Controller and Reservoirs</b>	
97007	Integrated Semiautomatic Controller and Reservoir, 0-100 psi
97010	Integrated Semiautomatic Controller and Reservoir, 0-15 psi
97017	Integrated Semiautomatic Controller and Reservoir, 0-100 psi, with Low Level Sensor
97020	Integrated Semiautomatic Controller and Reservoir, 0-15 psi, with Low Level Sensor
<b>Solenoid Valve Module</b>	
1328354	Used to pneumatically control the 983914 Poppet valve, the 98022 cartridge pusher or other dispensing equipment using the I/O from the robot to control the air on/off.

#### TIP LOCATOR BRACKETS

Tip locator brackets position the dispense tip to increase precision and are used to mechanically set the tip height during installation. **A mounting bracket and rail, plate or adapter must be purchased separately. These are sized for 1" long, 25 gauge needles and must be modified by the user for larger gauge sizes.**

Part No.	Description
98332	Tip locator bracket for 30 ml syringe
98333	Tip locator bracket for 300 ml cartridge
98334	Tip locator bracket for 98009 and 98013 valves
98335	Tip locator bracket for 97113 and 97114 valves
98407	Tip locator bracket for 983914 valve and 986300 Poppet Valve

#### MOUNTING RAILS FOR BENCHTOP ROBOTS

A mounting rail is required when using Loctite® mounting for all 3 axis Benchtop Robots.

Part No.	Description
98328	3 3/4 inch bar with two cap screws
98329	8 3/4 inch bar with two cap screws
98330	12 inch bar with two cap screws

#### 3, 5 AND 10 ML SYRINGE ADAPTERS

These adapters are inserted into the 30 ml syringe mounting bracket kit to adapt it for 3, 5 and 10 ml syringes.

Part No.	Description
98320	10 ml adapter for use with 98316
98321	5 ml adapter for use with 98316
98322	3 ml adapter for use with 98316

#### MOUNTING BRACKETS

Part No.	Description
1328355	Syringe Holder, 30-55ml, Fixed
98316	30ml Syringe Mounting Bracket Kit
98318	300ml Cartridge Mounting Bracket Kit
98326	98009 and 98013 Valve Mounting Bracket Kit
98327	97113 and 97114 Valve Mounting Bracket Kit
98406	983914 and 986300 Poppet Valve Mounting Bracket Kit
98441	98520 Spray and 98084 Micro Needle Valve Mounting Bracket Kit
98646	Universal Syringe Bracket for Posi-Link™
98647	50ml Dual Cartridge Bracket for Posi-Link™
98669	98591 and 98595 LED Mounting Bracket Kit
1034030	98601, 98665, 976418 and 976420 LED Mounting Bracket Kit
98357	Z Height Adjustment Plate
929541	Z Height Adjustment Plate for Posi-Link™ 200-400 nests

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#### LIGHT CURTAIN GUARDING PACKAGE – Item # 989771

This package is an integrated safety enclosure to support Loctite® 300 Robots. The enclosure has transparent hard guarding on 3 sides (with clear anodized aluminum extrusion frame), and a full-length safety light curtain on the front side. The light curtain guarding will permit loading and unloading of production parts while protecting the users from Robot motion. Included with the package is:

- Electrical enclosure with operator controls of E-Stop button, cycle start pushbutton, and a power On lamp.
- A quad AC power outlet at the rear of the electrical enclosure serves to power the Robot and any other dispense accessory for the application.

Control to the system will be centrally located from this enclosure. The operator E-Stop will remove power from the Quad outlet, disabling all functions when depressed (including the robot). The light curtain can be crossed at any time without affecting the Robot so long as the Robot is not in motion (dispense cycle). If the light curtain is crossed, during a dispense cycle, the power to robot's motors will be removed; and the Robot will have to be re-initialized (with the cycle start switch).

A single 120 VAC outlet is all that is required to power the guarding system. A small access panel is available at the rear of the guarding enclosure for access to the Robot power switch, cables, airlines, edge connectors, etc.

Dimensions: 32" Wide x 32" Deep x 31" High.

#### INTERLOCKED-DOOR GUARDING PACKAGE – Item # 989788

The Guarding Package is offered without the safety light curtain and instead, a sliding door is used to isolate the operator from the Robot motion. This package contains all the same features as the Light Curtain Guarding Package. It requires the user to slide (right to left) the clear polycarbonate door to gain access to the Robot loading platform. A roller arrangement allows for minimal effort in opening and closing.

The door is interfaced with the Robot and will not allow a cycle to start if the door is opened. If the door is opened during a dispense cycle, the Robot will stop and will have to be re-initialized. This package is well suited for slower (long) cycle, or low volume applications. Dimensions: 32" Wide x 32" Deep x 31" High.

#### ROBOT WORKBENCH TABLE – Item # 989784

The Robot or Guarding Package can be ordered with a sturdy tubular painted steel base table, standard laminate top, and leveling feet with capacity of 4,000 lb. This table frame can also serve for the mounting of dispense hardware such as pressure regulators, purge hardware, ball valves, dispense solenoids, etc.

It is provided with ample room for tabletop dispense accessories like Semi-Auto Controllers, Syringe Systems, etc. Each base table is set to a standing working height of 36." The user chooses the location for the Guard Package and can then anchor the guard system to the table (anchors are pre-installed on the guarding frame). Dimensions: 48" Wide x 36" Deep x 36" High.

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