



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

Product Description Sheet

400D Benchtop Robot 12V Item # 1325964

North American Engineering Center

PRODUCT DESCRIPTION

The Loctite® 400D Benchtop Robot has features and accessories that are custom tailored for adhesive dispensing processes. The range of operation is 400 mm by 400 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 |
|--|--------------|---|
| Number of controllable axes | | 3 |
| Range of operation | X axis | 400 mm |
| | Y axis | 400 mm |
| | Z axis | 100 mm |
| Portable weight | Work Surface | 10.0 kg |
| | Tool Head | 5.0 kg |
| Maximum Speed | PTP (X,Y) | 600 mm/s |
| | PTP (Z) | 320 mm/s |
| Repeatability accuracy | X, Y, Z axis | ± 0.01 mm |
| Resolution | | 0.001 mm |
| CPU | | 32 bit |
| Display | | Teach Pendant LCD |
| Control method | | Point to Point and Continuous Path |
| Drive method | | 3-phase stepping motor |
| I/O Signals | | 8 inputs / 8 outputs |
| Teaching Method | | Teach Pendant |
| Program capacity | | 100 programs |
| Data memory capacity | | 4,000 points/program |
| Dimensions | Width | 585 mm |
| | Depth | 600 mm |
| | Height | 600 mm |
| Weight | | 40 kg |
| Power source – auto switching | | 95-132 VAC 150 watt 180-250 VAC 150 watt |
| Working environment | Temperature | 0 - 40°C |
| | Humidity | 20 - 90% RH |
| Parts Included: | | |
| <ul style="list-style-type: none"> • Robot and Operating Manual • Syringe Holder, 30-55 ml. fixed. Item # 1328355 • External Control Shorting Connector; 7-pin female. • Dispensing Cable; 3-pin round female to 9-pin male "D" shell. • Mounting Screw for Syringe Holder • AC Power Cord | | |

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.

NOT FOR PRODUCT SPECIFICATIONS

Loctite is a TM of Henkel Corporation, U.S.A. © Copyright 2009. Henkel Corporation. All rights reserved

Document # 8903400, Date: 04/23/2012





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

Product Description Sheet

400D Benchtop Robot 12V
Item # 1325964

North American Engineering Center

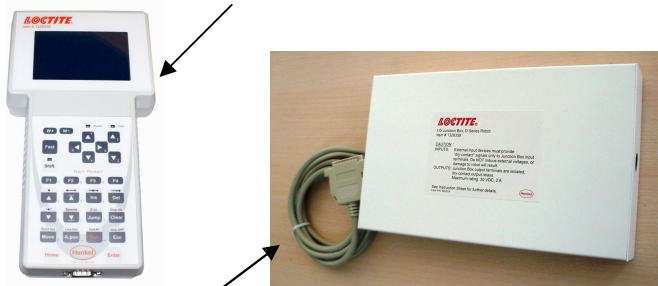
PROGRAMMING

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 |
|---------------------|---|
| Accessories | |
| 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 |
|--------------------------|--|
| Dispensers | |
| 883976 | Syringe dispensing system, digital |
| 97006 | Syringe dispensing system, precision digital |
| See Web site | Posi-Link™ Volumetric Dispensing System |
| Syringes | |
| 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 |
| Air Line Adapters | |
| 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 |
|---------------------------------|--|
| Dispensers | |
| 883976 | Syringe dispensing system, digital |
| 97006 | Syringe dispensing system, digital precision |
| 300 ml cartridge adapter | |
| 98319A | 300 ml pneumatic cartridge adapter |
| 98022 | 300 ml cartridge pusher |



PRODUCT SPECIFICATIONS

Loctite is a TM of Henkel Corporation, U.S.A. © Copyright 2009. Henkel Corporation. All rights reserved

Document # 8903400, Date: 04/23/2012





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

Product Description Sheet

400D Benchtop Robot 12V Item # 1325964

North American Engineering Center

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 |
|----------------------------------|---|
| Valves | |
| 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 |
| Controller and Reservoirs | |
| 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 |
| Solenoid Valve Module | |
| 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 |

NOT FOR PRODUCT SPECIFICATIONS

Loctite is a TM of Henkel Corporation, U.S.A. © Copyright 2009. Henkel Corporation. All rights reserved

Document # 8903400, Date: 04/23/2012





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

Product Description Sheet

400D Benchtop Robot 12V Item # 1325964

North American Engineering Center

LIGHT CURTAIN GUARDING PACKAGE – Item # 989777

This package is an integrated safety enclosure to support Loctite® 400D 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 (or 220VAC for 220 Volt units) 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 # 989789

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 BASE TABLE – Item # 989785

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.

NOT FOR PRODUCT SPECIFICATIONS

Loctite is a TM of Henkel Corporation, U.S.A. © Copyright 2009. Henkel Corporation. All rights reserved

Document # 8903400, Date: 04/23/2012

