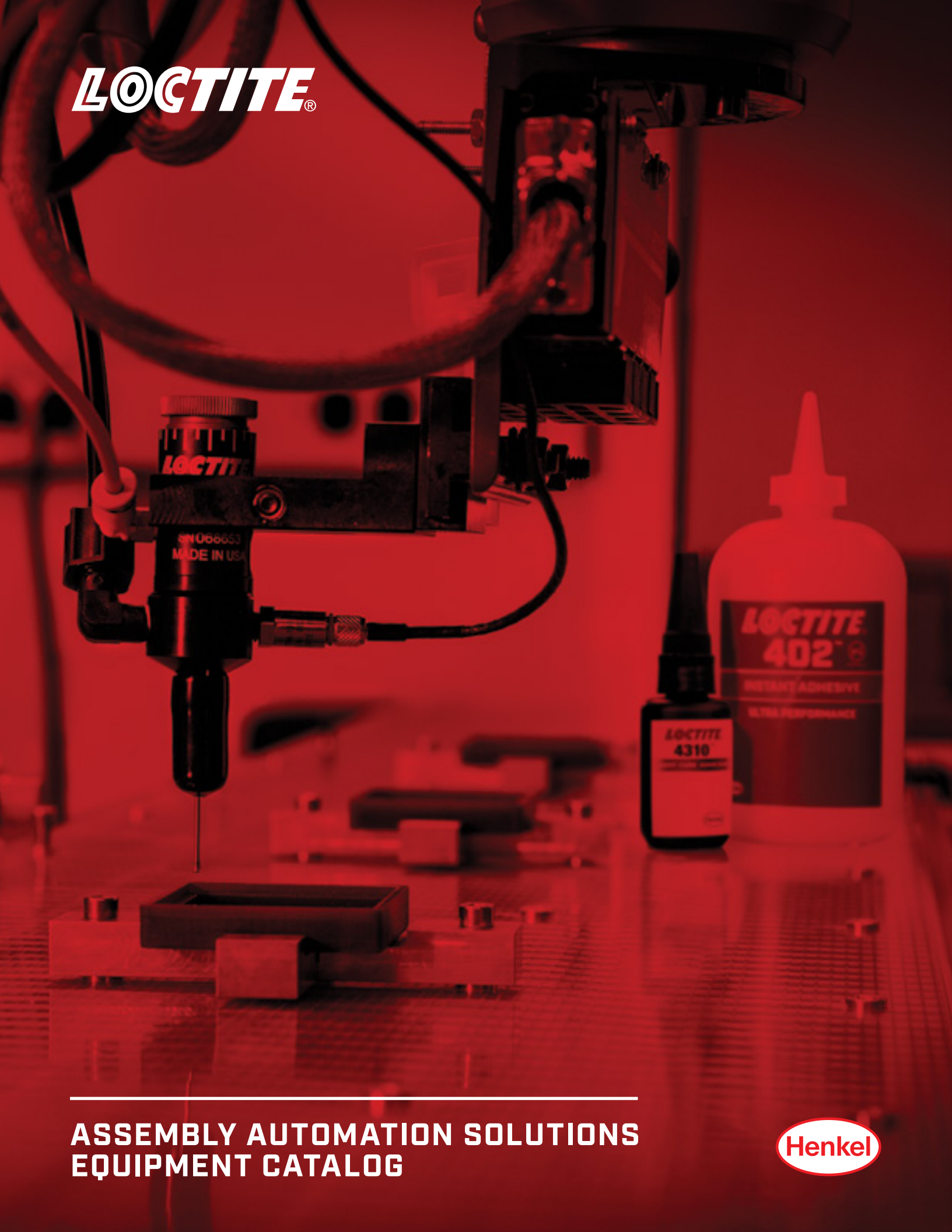




LOCTITE®

**ASSEMBLY AUTOMATION SOLUTIONS
EQUIPMENT CATALOG**

Henkel

EQUIPMENT + ADHESIVES + EXPERTISE = TOTAL ASSEMBLY SOLUTIONS.

From equipment, to adhesives, to technical support,
your assembly automation needs are fully covered.

Looking for faster, simpler, more effective assembly
methods? LOCTITE® supplies total, end-to-end
solutions to you.

Advance your assembly processes to the next level
with our complete lineup of easy-to-use dispensing
and curing equipment. Add to that the industry’s most
comprehensive range of adhesives for applications
ranging from manual to fully-automated.

And, of course, LOCTITE technical support is
part of the equation to help make unlimited
manufacturing possibilities.

When we say “total,” we mean it.



Scan QR code
for additional
information.

04

06

22

26

34

EQUIPMENT SERVICES

A full range of equipment services including factory repairs, field service of LOCTITE brand and other Henkel equipment, rental equipment, and unique engineering services.

DISPENSE SYSTEMS

A comprehensive offering of dispensing systems ranging from manual to automated, and suited for an array of adhesive package sizes.

AUTOMATED ROBOTIC SYSTEMS

Automated robotic dispensing systems are offered in multiple configurations to meet all your process needs.

LIGHT-CURING SYSTEMS

A wide range of LED light-curing systems that provide high power, portability, continuous duty, and long life.

CONSUMABLES FOR DISPENSING SYSTEMS

A comprehensive line of LOCTITE dispensing tips and static mix nozzles.

Compatible Adhesive Technologies

LOCTITE equipment is specifically designed to work with our broad range of adhesive solutions.



Anaerobics

AN



Cyanoacrylates

CA



Light-Cures

LC



Silicones

SI



Acrylics

AC



Two Components

2K



EQUIPMENT SERVICES

As a total solutions provider, Henkel's exceptional support network will ensure that all your LOCTITE® equipment service needs are met from start to finish. Experienced technical experts are readily available to provide the following and more:

- Product recommendations to ensure the correct equipment is always installed.
- On-site integration and start-up services to support new users.
- Customization services to ensure LOCTITE equipment solutions fit seamlessly into your process.
- On-site or remote training programs to make sure you have all the information you need to be successful.

Properly maintaining your equipment after installation is critical to achieving top performance. Our equipment experts are also here to offer everything you need to sustain that ongoing performance. The following services are offered to ensure you have all the after-sales support needed:

WARRANTY SUPPORT

Henkel offers a full one-year warranty on all of our equipment. We will ensure you are up and running as soon as possible if there is any issue.

CUSTOM SPARE PARTS

Custom-order spare parts and accessories are available through the Henkel Equipment Services team. (Standard spare parts are available through traditional purchasing channels.)

FACTORY REPAIR

If you have LOCTITE equipment in need of repair, Henkel can restore it by using original factory parts, and testing to original quality specifications. All repairs carry a 30-day labor and 90-day parts warranty.

REBUILD EXCHANGE PROGRAM

The Rebuild Exchange Program is a cost-effective way of streamlining the repair of LOCTITE dispensing valves. It allows you to send in your old valve and receive a reconditioned valve in return.

CALIBRATIONS

Henkel provides calibration services for all of its light meters. All units are also inspected during calibration for any potential repairs. In addition, you can sign up with Henkel for calibration reminders.

TRADE-IN/TRADE-UP

Henkel's LOCTITE equipment trade-in program allows you to upgrade existing adhesive equipment with the newest LOCTITE technology in an affordable and seamless process.

FIELD SERVICE

Henkel technicians are available to travel to your location for repair services, preventative maintenance, training, or assistance in setting up a new system.



DISPENSE SYSTEMS

LOCTITE® equipment offers high-quality dispensing systems to the marketplace. Henkel's experience and partnerships between customers, application engineering, and equipment engineering means when you purchase LOCTITE equipment, you get the highest level of expertise, backed by technical service and support unmatched in the industry. The broad range of LOCTITE dispensing systems offers you solutions for an array of adhesive package sizes for various market applications.

Selecting a compatible Dispensing Solution is critical to achieve optimum performance. The primary considerations for selecting a Dispensing Solution include:

Adhesive Chemistry	Adhesive chemistries cure with specific mechanisms or exposure to certain environments.
Package Size and Type	Adhesives are typically offered in various package sizes, depending on shelf life or environmental stability.
Process Requirements (Manual, Semi-Automated, Automated)	Manufacturing process requirements vary in production rate, accuracy/repeatability, part size/geometry, and dispense pattern.

Typical Dispensing Solutions include:

CONTROLLERS & DISPENSE RESERVOIRS

LOCTITE Controllers and Dispense Reservoirs are designed to quickly and easily integrate with each other to deliver a cost-effective solution, as well as improve performance over manual dispensing methods. Compatible with adhesive packs from 50 ml to 2 KG.

DISPENSE VALVES

LOCTITE Dispense Valves for adhesive or fluid delivery are uniquely designed to meet different manufacturing needs, and should be combined with a LOCTITE reservoir and/or a controller.

BOTTLE DISPENSE SYSTEMS

LOCTITE Bottle Dispense Systems are designed to meet demanding manufacturing needs for dispensing adhesives, packaged in a LOCTITE or any other brand bottle.

SYRINGE DISPENSE SYSTEMS

LOCTITE Pneumatic Syringe Dispense Systems can accommodate multiple adhesive package sizes and conveniently dispense with precision and ease.

CARTRIDGE DISPENSE SYSTEMS

LOCTITE Cartridge Dispense Systems are designed to support both handheld or benchtop operations, and allow you to dispense directly from the package with ease.

ANAEROBIC DISPENSE SYSTEMS

LOCTITE Anaerobic Dispense Systems are designed to apply LOCTITE anaerobic products for threadlocking, retaining, and sealing in a wide range of applications—from ID bore coating to gasket making.

VOLUMETRIC DISPENSE SYSTEMS

LOCTITE Volumetric Dispense Systems work with positive displacement technology, as opposed to conventional pressure/time systems, to deliver a high level of precision and accuracy.

RC30 Manual Reservoir

IDH: 2814022



The LOCTITE® RC30 Manual Reservoir is suitable for the application of LOCTITE adhesives with a manual applicator at workstations such as in workshops, laboratories, and industrial installations. The reservoir is equipped with a low-level sensor that sends an electronic signal to a LOCTITE brand controller and is typically integrated into a dispensing system that consists of a dispensing valve and any LOCTITE dispense controller. The reservoir can accommodate most standard LOCTITE adhesive bottles.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- Cost-effective manual dispensing reservoir for a variety of LOCTITE adhesives.
- Low-level sensor.
- Integrates directly with LOCTITE valves and controllers.



Scan QR code to check out our new how-to-use video.

RC40 Integrated Semi-Automatic Dispenser

IDH: 2814025



The LOCTITE RC40 Integrated Semi-Automatic Dispenser combines a dual-channel dispense controller and a reservoir into a single unit. The controller provides two (2) independent digital timing channels that provide control of two (2) pneumatic outputs. These outputs can be used to control dispense valves or any other pneumatic device. The reservoir can accommodate most standard LOCTITE adhesive bottles.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- Integrated reservoir and controller solution in one system.
- Two independent digital timing channels.
- Easy-to-use keypad with LCD display screen for entering values.
- Simple menu-driven commands.



Scan QR code to check out our new how-to-use video.

RC32/RC34 Automatic Reservoirs

IDH: 2814023 (RC32), 2830690 (RC34)



The LOCTITE RC32 and RC34 Automatic Reservoirs are suitable for the application of LOCTITE adhesives in semi- or fully-automated assembly processes where a LOCTITE controller is already in use. They allow for pressure adjustment and/or management directly from the LOCTITE controller, and include a low-level sensor. The reservoirs can accommodate most standard LOCTITE adhesive bottles.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- Cost-effective dispensing reservoir for a variety of LOCTITE adhesives.
- RC32 includes single-point, low-level sensor.
- RC34 includes dual-point, low-level sensor.
- Integrates directly with high-functioning LOCTITE controllers.
- Allows for reservoir pressure to be managed by external controller.



Scan QR code to check out our new how-to-use video.

RC50 Integrated Dispenser

IDH: 2814024



The LOCTITE® Pulse RC50 Integrated Dispenser, I4.0, is an enhanced version of the RC40 Integrated Dispenser and offers a digital touch screen for operation, as well as a precision regulator for low-viscosity dispensing. The dispenser is industry 4.0 compatible, providing enhanced communication/connectivity via ethernet or Wi-Fi. The reservoir can accommodate most standard LOCTITE adhesive bottles.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- Integrated reservoir and controller solution in one system.
- Two independent digital timing channels.
- Easy-to-use, full-color touch screen.
- The dispenser is industry 4.0 compatible, providing enhanced communication/connectivity via ethernet or Wi-Fi.



Scan QR code to check out our new how-to-use video.

Dual-Channel Controller

IDH: 1275665



The LOCTITE® Dual-Channel Controller is a versatile, multi-function controller for actuating one or two dispensing valves, as well as appropriate peripheral equipment, such as an advancing slide, rotorspray, an in-line flow monitor or reservoir. Reservoir pressure is regulated by means of a precision regulator and measured by a digital transducer. This controller can be integrated into fully-automated assembly line operations by means of the PLC interface.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- Two-channel multi-function controller.
- Digital readout for reservoir pressure, program step number, status of dispense, and dispense time in seconds.
- Four (4) independent dispense programs can be stored in memory.
- Full integration capability into highly-automated production systems.

Industrial Hand Tool Manufacturer Increases Throughput & Quality with a Semi-Automated Adhesive Process.

CUSTOMER CHALLENGE:

An industrial hand tool manufacturer was challenged with the assembly of handle grips onto various tools. The manual process was slow, complex, and not always reliable or repeatable.

HENKEL SOLUTION/BENEFITS:

The use of the **LOCTITE RC40 Integrated Dispenser** along with the **LOCTITE Cyanoacrylate Valve** to apply a toughened **LOCTITE Instant Adhesive** was the solution. The LOCTITE equipment feeds two workstations from one dispense system and applies the adhesive to the tool handles with the following benefits:

- Consistent/repeatable application (scrap rate reduction)
- Automated process (increased productivity)
- Dual application (manual labor reduction)



Photo representative only, not actual application.

Cyanoacrylate Dispense Valve

IDH: 318654



The LOCTITE Cyanoacrylate Dispense Valve is designed for cyanoacrylates, retaining compounds, and threadlockers. It has a small profile and its simple design facilitates field repair. The Cyanoacrylate Dispense Valve can be used with integrated dispense reservoirs to form a complete dispensing system.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- Specifically designed for the dispensing of LOCTITE cyanoacrylate adhesives.
- Compact size and weight.
- Simple design which facilitates field repair.
- Easy integration with LOCTITE reservoirs and controllers.

Light-Cure Dispense Valve

IDH: 218280



The LOCTITE Light-Cure Dispense Valve is designed for low- to medium-viscosity light-cure acrylics, retaining compounds, and threadlockers. It has a small profile and its simple design facilitates field repair. It can be used with integrated dispense reservoirs to form a complete dispensing system.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- Specifically designed for the dispensing of LOCTITE light-cure adhesives.
- Compact size and weight.
- Simple design which facilitates field repair.
- Easy integration with LOCTITE reservoirs and controllers.

Stationary Applicator Valves

IDH: 88644 (1/4 in.), 88645 (3/8 in.)



The LOCTITE® Stationary Applicator Valves with a 1/4 in. or 3/8 in. feed line are slim, lightweight, patented, no-seal dispense valves. These stationary applicators require a controller and product reservoir and can be used with an integrated dispense reservoir to form a complete dispensing system.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- Specifically designed for precision dispensing of LOCTITE adhesives.
- Slim, lightweight, no-seal design.
- Adjustable opening and closing speeds for increased dispensing control.
- Easy integration with LOCTITE reservoirs and controllers.

Low-Viscosity Handheld Valve

IDH: 444643



The LOCTITE Low-Viscosity Handheld Valve is a pneumatically-operated, adjustable seat valve designed to be used in conjunction with pressure/time dispense systems. This valve is capable of delivering very small drop sizes, even with low-viscosity products. It can be used especially for cyanoacrylates and other low-pressure applications.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- Specifically designed for the dispensing of low-viscosity cyanoacrylate and anaerobic adhesives.
- Slim, ergonomic design.
- Ideal for dispensing very small drop sizes.
- Easy integration with LOCTITE reservoirs.

VA40 CA Volumetric Valve

IDH: 2333708



The LOCTITE VA40 CA Volumetric Valve is a positive displacement metering valve which dispenses a precise volumetric drop of adhesive with each cycle. The LOCTITE VA40 is specifically designed to dispense drops of cyanoacrylate with precise dosing in the range of 1.5 to 6 microliters.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- Specifically designed for volumetric dot dispensing of LOCTITE cyanoacrylate adhesives.
- Quick and reliable priming.
- Long-life seal design minimizes maintenance requirements.
- Easy integration with LOCTITE reservoirs and controllers.

Vari-Drop® Applicator (w/o Tubing and Guards)

IDH: 215996



The LOCTITE Vari-Drop Applicator is suitable for manually dispensing low- to medium-viscosity LOCTITE products that can be dispensed using pressure/time dispensing. The adjusting screw allows repeatable dispense from light to heavy beads or drops.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- Specifically designed for the manual dispensing of low- to medium-viscosity LOCTITE adhesives.
- Cost-effective solution for handheld dispensing needs.
- Field-serviceable.
- Easy integration with LOCTITE reservoirs.

PU20 Digital Peristaltic Dispenser

IDH: 2265279



The LOCTITE® PU20 Digital Peristaltic Dispenser is a reliable and effective volumetric dispenser for single-component, low-viscosity adhesives. This dispenser is electro-mechanically operated and does not require the use of an air source. Recommended for use with adhesives packaged in 50 ml or smaller bottles.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- Precise volumetric dispensing of LOCTITE adhesives from small bottles.
- Air-free dispensing eliminates air in product.
- Digital speed adjustment with vacuum suck-back.
- “Teach In” and program memory-saving function.

Pro Pump Handheld Dispenser

IDH: 2564842



The LOCTITE Pro Pump Handheld Dispenser is a bottle-mounted adhesive dispenser that can be used with 50 ml or 250 ml bottles of LOCTITE anaerobic adhesives, creating a complete dispensing system. The ergonomic design allows the user to deliver a drop of adhesive with a single pull of the trigger. The Pro Pump Handheld Dispenser enables more accurate and consistent application while eliminating waste and mess.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- Turns a bottle of adhesive into a dispensing system.
- Easy to set up and easy to use.
- Compatible with all LOCTITE anaerobic threadlockers and retaining compounds.
- Eliminates spills, waste, and mess.

Medical Device Designer Selects Adhesive & Semi-Automated Equipment for a Consistent, High-Quality Process.

CUSTOMER CHALLENGE:

A designer of a new medical testing device was seeking an assembly solution and process that would be simple to implement, accurate, and reliable. Several assembly methods were under consideration including ultrasonic welding, mechanical fastening, and adhesives.

HENKEL SOLUTION/BENEFITS:

A **LOCTITE Medical Device Grade Instant Adhesive** applied using the **LOCTITE PU20 Digital Peristaltic Dispenser** was selected. The combination equipment and adhesive solution met the designer’s requirements with the following benefits:

- Simple, easy to implement (minimal worker training)
- Consistent and repeatable process (accurate for every part)
- Increased reliability (volumetric dispensing of adhesive)



Photo representative only, not actual application.

Telecommunication Manufacturer Improves Field Reliability with a Simple Adhesive Application Solution.

CUSTOMER CHALLENGE:

A manufacturer of exterior telecommunication boxes was experiencing field failures due to corrosion of the fasteners used to assemble the boxes. The boxes needed to be sealed from the elements, but also repairable in the field.

HENKEL SOLUTION/BENEFITS:

The use of the **LOCTITE Pro Pump** to apply **LOCTITE Thread Sealant** was the solution. The combination equipment and adhesive solution was quick and easy to implement and yielded the following benefits:

- Ease of use (simple, manual application)
- Consistent/repeatable application (reliability improvements)
- Neat appearance (no excess sealant)



Photo representative only, not actual application.

Digital Syringe Dispenser

IDH: 883976



The LOCTITE® Digital Syringe Dispenser is a semi-automatic dispensing system designed to dispense LOCTITE adhesives and fluids packaged in 3, 5, 10, 30, and 55 ml syringes, and 300 ml cartridges. The unit has digital timing control for increased precision over typical pressure/time systems.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- Cost-effective for dispensing LOCTITE adhesives in syringes.
- Simple, easy operation.
- Vacuum suck-back can effectively control product dripping or stringing.
- Easily integrates with other LOCTITE equipment.

Medical Device Manufacturer Reduces Scrap & Increases Throughput with a Fast & Effective Light-Cure Process.

CUSTOMER CHALLENGE:

A manufacturer of a medical monitoring device was experiencing numerous challenges with their manual, room-temperature curing assembly process, ranging from worker fatigue due to the manual process, to variable quality of the end device due to inconsistencies in adhesive application.

HENKEL SOLUTION/BENEFITS:

A **LOCTITE Medical Device Grade Light-Cure Acrylic Adhesive** packaged in a 30 ml syringe, applied using the **LOCTITE Digital Syringe System**, and cured using the **LOCTITE CL40 LED Spot-Curing System**, was the solution. The combination equipment and adhesive resolved the manufacturer's challenges with the following benefits:

- Rapid light-cure (reduced work-in-process and increased throughput)
- Improved worker satisfaction (semi-automated application reduced fatigue)
- Reduced scrap rate (improved reliability and reduced cost)



Photo representative only, not actual application.

HD14 Handheld Manual Dual-Cartridge Dispensers

IDH: 2693822 (200 ml), 2693823 (400 ml)



The LOCTITE HD14 Handheld Manual Dual-Cartridge Dispensers are designed for the manual dispensing of two-component adhesive products packaged in 200 ml or 400 ml cartridges. The dispensers are compatible with all standard product ratios.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- Cost-effective, handheld manual dispensing of LOCTITE 200 ml and 400 ml two-part adhesives.
- Compatible with various mix ratio LOCTITE adhesives.
- Conversion kit for 1:1, 2:1, 4:1, and 10:1 is included with each dispenser.

HD14 Handheld Pneumatic Dual-Cartridge Dispensers

IDH: 2693824 (200 ml), 2693825 (400 ml)



The LOCTITE HD14 Handheld Pneumatic Dual-Cartridge Dispensers are designed for the pneumatic dispensing of two-component adhesive products packaged in 200 ml or 400 ml cartridges. The dispenser is compatible with all standard product ratios and offers improved consistency over manual options.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- Cost-effective, handheld pneumatic dispensing of LOCTITE 200 ml and 400 ml two-part adhesives.
- Compatible with various mix ratio LOCTITE adhesives.
- Conversion kit for 1:1, 2:1, 4:1, and 10:1 is included with each dispenser.

50 ml Handheld Manual Dispenser

IDH: 267452



The LOCTITE® 50 ml Dual-Cartridge Manual Applicator is a handheld, manually operated meter mix dispenser. The dispenser provides a convenient, cost-effective method to apply adhesives and sealants with minimal waste. The dispensers are compatible with 1:1 and 2:1 mix ratio products, as well as products packaged in 10:1 B-Style cartridges.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- Cost-effective, handheld manual dispensing of LOCTITE 50 ml two-part adhesives.
- Compatible with various mix ratio LOCTITE adhesives.
- Kit includes 1:1, 2:1, and 10:1 plungers.

300 ml Single-Cartridge Handheld Dispensers

IDH: 1093940 (manual), 1714379 (pneumatic)



The LOCTITE 300 ml Cartridge Applicators are designed for use with sealants and adhesives packaged in 300 ml (10.3 oz.) cartridges. These professional-quality, high-performance applicators are suitable for a broad range of single-component, cartridge-based adhesives and sealants.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- Cost-effective, handheld dispensing of LOCTITE 300 ml adhesive cartridges.
- Manual and pneumatic configurations.
- Simple, quick operation.
- Durable construction.

LOCTITE Electric Rotorspray

IDH: 135557



LOCTITE Rotorspray Systems are designed to apply adhesives and sealants to the interior cylindrical surfaces of workpieces. The special design of the drive assembly and rotor housing ensures that the Rotorspray is completely sealed to prevent contamination with adhesive.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- Application of LOCTITE adhesives to interior cylindrical surfaces.
- Integrates directly with LOCTITE valves and controllers.
- Multiple size spinners available for a variety of applications.

Commercial Appliance Electric Motor Improved with Adhesive Sealing Solution.

CUSTOMER CHALLENGE:

A commercial appliance manufacturer was challenged with the assembly of electric motors where complete sealing, a neat appearance, and a high throughput were required.

HENKEL SOLUTION/BENEFITS:

The use of a **LOCTITE Anaerobic Adhesive/Sealant** in combination with the **LOCTITE Rotorspray Applicator** was the solution. The **LOCTITE Rotorspray Applicator** applies the adhesive/sealant to the interior diameter of the rotor with the following benefits:

- Uniform application (complete seal)
- Neat appearance (no excess adhesive/sealant)
- Automated process (increased productivity and improved reliability)



Photo representative only, not actual application.

DISPENSE SYSTEMS

Anaerobic Dispense Systems

Pro Pump Handheld Dispenser

IDH: 2564842



The LOCTITE® Pro Pump Handheld Dispenser is a bottle-mounted adhesive dispenser that can be used with 50 ml or 250 ml bottles of LOCTITE anaerobic adhesives, creating a complete dispensing system. The ergonomic design allows the user to deliver a drop of adhesive with a single pull of the trigger. The Pro Pump Handheld Dispenser enables more accurate and consistent application while eliminating waste and mess.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- Turns a bottle of adhesive into a dispensing system.
- Easy to set up and easy to use.
- Compatible with all LOCTITE anaerobic threadlockers and retaining compounds.
- Eliminates spills, waste, and mess.

Volumetric Dispense Systems

PU20 Digital Peristaltic Dispenser

IDH: 2265279



The LOCTITE PU20 Digital Peristaltic Dispenser is a reliable and effective volumetric dispenser for single-component, low-viscosity adhesives. This dispenser is electro-mechanically operated and does not require the use of an air source. Recommended for use with adhesives packaged in 50 ml or smaller bottles.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- Precise volumetric dispensing of LOCTITE adhesives from small bottles.
- Air-free dispensing eliminates air in product.
- Digital speed adjustment with vacuum suck-back.
- “Teach In” and program memory-saving function.

Volumetric Dispense Systems

RC15 Compact Rotor Pump System

The LOCTITE Rotor Pump System is a volumetric displacement system that provides a high level of repeatability and accuracy for bead, drop, or potting applications. The system can also be used with the LOCTITE Electric Rotorspray.



RC15 Compact Rotor Pump Controller

IDH: 1880232

The LOCTITE RC15 Pump Controller is designed for the precise control of the Compact Micro Rotor Pump Dispenser 1.0 and the Compact Rotor Pump Dispenser 4.0. Three (3) programs can be stored in the RC15 Pump Controller for different dispensing applications. There are three (3) different modes of operation (Quantity, Time, Start/Stop), which can be set up easily using the touch screen.



Compact Micro Rotor Pump 1.0

IDH: 1741601

The LOCTITE Compact Micro Rotor Pump Dispenser 1.0 applies LOCTITE adhesives out of a reservoir with high repeatability. Ideal for small drop and bead dispensing, delivering a flow rate of up to 1.5 ml/min. This volumetric dispenser is a rotating displacement system and consists of a rotor and stator. This Rotor Pump requires the RC15 Rotor Pump Controller to form a complete dispensing system.



Compact Rotor Pump 4.0

IDH: 1196160

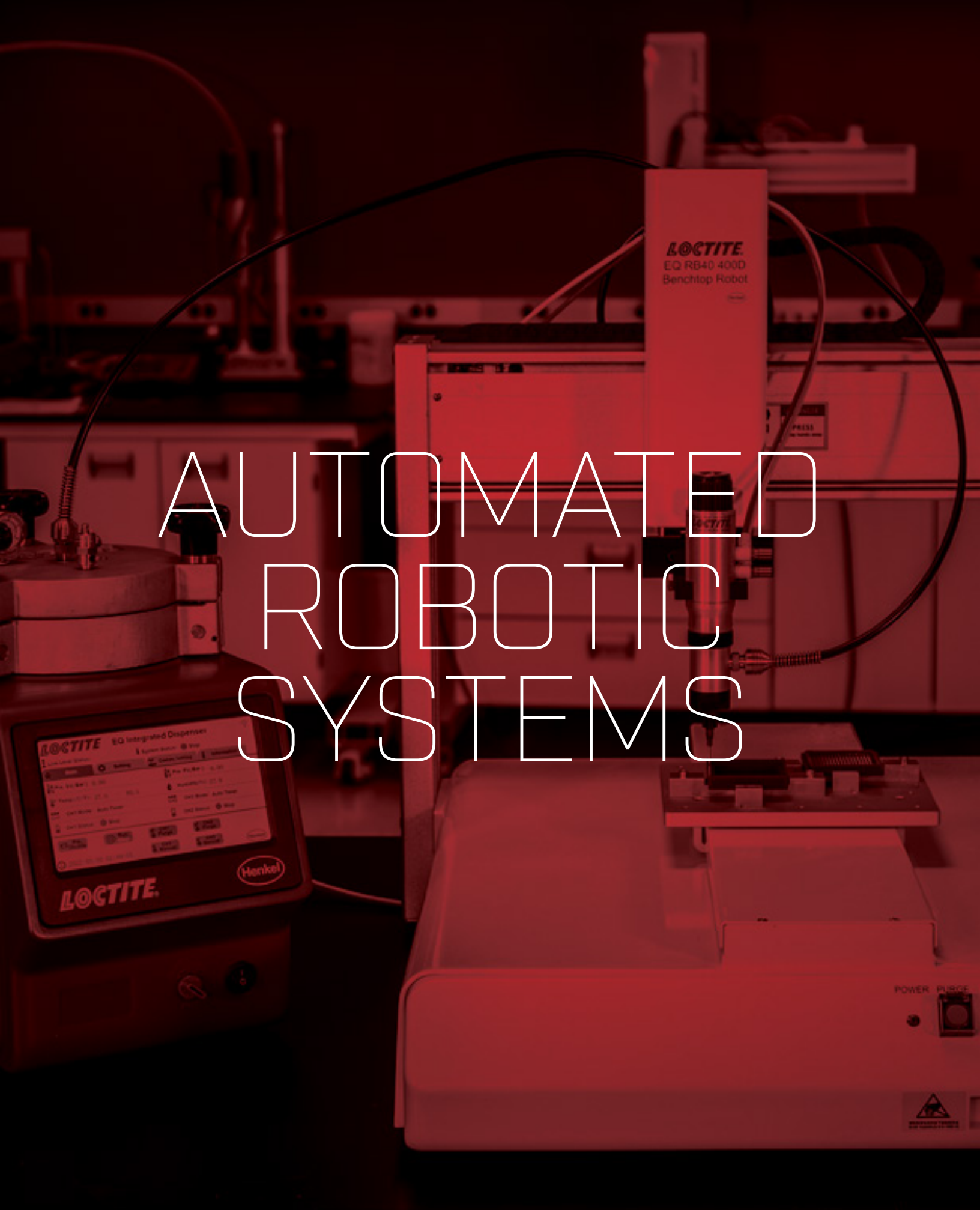
The LOCTITE Compact Rotor Pump Dispenser 4.0 applies LOCTITE adhesives out of a reservoir with high repeatability. Ideal for small to medium drop and bead dispensing, delivering a flow rate of up to 6 ml/min. This volumetric dispenser is a rotating displacement system and consists of a rotor and stator. This Rotor Pump requires the RC15 Rotor Pump Controller to form a complete dispensing system.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- Specifically designed for volumetric dispensing of dots and beads of LOCTITE light-cure and anaerobic adhesives.
- Capable of dispensing low- to high-viscosity adhesives.
- Multiple pump sizes available dependent on flow rate requirements.
- Easy integration with LOCTITE reservoirs and controllers.



AUTOMATED ROBOTIC SYSTEMS

LOCTITE® Automated Robotic Dispensing Systems are cost-effective solutions designed to simplify the dispensing of adhesives and sealants onto various surface configurations, ranging from simple to complex. Dispensing Robots allow manufacturers to repeatedly and reliably dispense patterns of liquid materials on a programmed basis, resulting in improved process efficiencies, minimal material waste, and reduced manufacturing costs. Automated dispensing systems are offered in multiple configurations to meet all your process needs.

WHY USE A ROBOTIC DISPENSING SYSTEM?

BENEFITS OF ROBOTIC DISPENSING

Precision Application

Robotic Dispensing ensures that adhesive is applied in the correct location on the part.

Repeatability

Dispensing Robots will dispense in the same location every time, reducing part-to-part variation typically seen in manual processes.

Complexity

Robots are capable of consistently applying beads of adhesive in difficult shapes and patterns, which may not be possible via manual application.

Speed

High-speed dispensing can be achieved while still maintaining performance requirements.

Quality

A properly-controlled dispensing process will minimize waste/scrap, while ensuring performance, aesthetics, and the overall quality of the assembled part.

Ease of Installation

Dispensing Robots are suitable for all production environments, integrate directly with other LOCTITE equipment, require minimal operator dependency, and are offered in multiple configurations to meet different process needs.

RB40 Dispensing Robots

The LOCTITE® RB40 Benchtop Dispensing Robots are available in four ranges of operation from 200 x 200 x 50 mm up to 500 x 500 x 100 mm (X,Y,Z) and have features and accessories that are custom-tailored for adhesive dispensing processes. These benchtop robots have 3-axis control, and each robot has an integral I/O connector for external light curtain (sold separately) or external E-stop integration. The Teach Pendant, dispensing equipment, cables, and mounting hardware must also be purchased separately.



RB40 200 D-Series Benchtop Robot

IDH: 2104801

The LOCTITE RB40 200 D-Series Dispensing Robot has a **200 x 200 x 50 mm** range of operation (X,Y,Z), and has features and accessories that are custom-tailored for adhesive dispensing processes.

RB40 300 D-Series Benchtop Robot

IDH: 2104799

The LOCTITE RB40 300 D-Series Dispensing Robot has a **300 x 300 x 100 mm** range of operation (X,Y,Z), and has features and accessories that are custom-tailored for adhesive dispensing processes.



RB40 400 D-Series Benchtop Robot

IDH: 2104795

The LOCTITE RB40 400 D-Series Dispensing Robot has a **400 x 400 x 100 mm** range of operation (X,Y,Z), and has features and accessories that are custom-tailored for adhesive dispensing processes.

RB40 500 D-Series Benchtop Robot

IDH: 2103369

The LOCTITE RB40 500 D-Series Dispensing Robot has a **500 x 500 x 100 mm** range of operation (X,Y,Z), and has features and accessories that are custom-tailored for adhesive dispensing processes.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- Designed for adhesive dispensing within a working area up to 500 mm x 500 mm x 100 mm.
- Integrated solution—plug-and-play with LOCTITE equipment solutions and accessories.
- Easy to program via Teach Pendant, and stores up to 100 programs.
- A wide variety of mounting hardware is available.

Sensor Manufacturer Implements Semi-Automated Adhesive Application Process to Improve Quality & Reliability.

CUSTOMER CHALLENGE:

A sensor manufacturer was manually applying LOCTITE Instant Adhesives onto small sensors for attachment to an aluminum plate. The process was challenged with consistency, accuracy, and contamination issues.

HENKEL SOLUTION/BENEFITS:

A combination assembly automation solution, including a **LOCTITE RC50 Integrated Dispenser, VA40 CA Valve,** and **RB40 300 D-Series Robot,** was developed to meet the assembly requirements and deliver the following benefits:

- Reduced adhesive and manual labor usage (cost savings)
- Improved quality and reliability (accurate, repeatable dispense)
- Increased throughput (fast application process)



Photo representative only, not actual application.

LED Lighting Manufacturer Selects Adhesive & Automated Equipment for Rapid Process Time & High-Quality.

CUSTOMER CHALLENGE:

An LED manufacturer was designing a new LED light fixture. The assembly solution needed to provide a complete seal of the components, as well as allow for rapid manufacturing in order to keep up with market demand.

HENKEL SOLUTION/BENEFITS:

A semi-automated adhesive application and curing station was the solution. A **LOCTITE Light-Cure Acrylic Adhesive** is dispensed using the **LOCTITE RC50 Integrated Dispenser, Light-Cure Valve** and **RB40 500 D-Series Robot.** This system enables rapid and accurate adhesive application to the various complex geometries, which are then cured using the **LOCTITE CL42 LED Flood-Curing System.** This total solution delivers the following benefits:

- Improved quality and reliability (accurate, repeatable dispense)
- Increased throughput (fast application and cure process)
- Cost savings (labor and failure rate reduction)



Photo representative only, not actual application.

LIGHT-CURING SYSTEMS

Henkel offers innovative LOCTITE® LED Light-Curing Systems that provide high power, portability, continuous duty, and long life. A wide range of systems are available—handheld point, spot wand, and flood systems—offering maximum flexibility for any application. These light sources are optimized for curing our extensive line of UV/Visible light-curing adhesive products, to provide optimal solutions for nearly every process need.

Key benefits of LED-curing systems versus traditional bulb technology include:

- | | | | |
|---|--|---|--|
|  | Long life – Up to 20,000 hours of operation (10x longer than typical UV bulbs) with minimal decay over time. |  | Environmental benefit (no mercury). |
|  | Instant on/off – No warm-up like traditional UV systems. |  | Low maintenance cost (no replacement bulbs). |
|  | Zero infrared emissions, reducing part heating (warping) to an absolute minimum. |  | Low energy consumption. |
|  | 100% of LED light output is within the usable curing spectrum. |  | Low cost of ownership. |

Process Control and Monitoring Systems for Light-Curing Systems

Henkel offers a full range of radiometers that can be used with all of our light-curing systems, to ensure the proper intensities are delivered consistently during your production process. These tools are used in conjunction with light-curing equipment to ensure a consistent process and the highest level of quality.



CL30 LED Flood-Curing System

The LOCTITE® CL30 System is a high intensity LED flood system specifically designed to cure LOCTITE light-cure adhesives. The large area flood allows for easy curing of large part assemblies and the LED heads can be stacked in both the X and Y directions, further expanding the curing area if needed. The system can be easily integrated into either benchtop or fully-automated processes.



CL30 LED Flood Quad Controller

IDH: 2257357

The LOCTITE CL30 LED Quad Controller operates up to four (4) LED flood heads. It has three (3) different control modes: 1) Timer Mode: Adjustable from 0 to 999 seconds; 2) Level Mode: To set up intensity percentage for each channel; and 3) Advance Mode: Operator needs to define Step, Intensity, and Time.



CL30 LED Flood Single Controller

IDH: 1359255

This LOCTITE CL30 LED Flood-Curing Single Controller supplies electrical power to one LOCTITE CL30 LED Flood Array Light Source. It controls the time that the LED is kept on during the cure cycle.



CL30 LED Flood Array Light Sources

IDH: 2139182 (365 nm), 2139180 (405 nm)

The LOCTITE CL30 LED Flood Array Light Sources are offered in 365 and 405 nm wavelengths. Each CL30 head is equipped with 144 high-power LEDs and integrated reflectors, providing uniform curing across a wide area (100 mm x 100 mm, or 4 in. x 4 in.). The Light Sources can also be stacked side-by-side in two directions, further expanding the curing area for maximum flexibility.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- LED flood-curing system offering long-life, energy-efficient, instant on/off performance.
- Simple and easy control of one (1) to four (4) LED flood heads.
- Large cure area (100 mm x 100 mm, or 4 in. x 4 in.).
- Resistive color touch screen for ease of operation.
- LED heads stackable in both X and Y directions.

CL42 LED Flood-Curing System

The LOCTITE CL42 System is a high intensity LED flood system specifically designed to cure LOCTITE light-cure adhesives. The large area flood allows for easy curing of large part assemblies and the LED heads can be stacked side-by-side, further expanding the curing area if needed. The system can be easily integrated into either benchtop or fully-automated processes.



CL42 Dual LED Controller

IDH: 2804957

The LOCTITE CL42 Dual LED Controller operates up to two (2) LED flood heads. It can be operated in a continuous light output mode, or up to a 7-step, programmed output mode, where the light output intensity and time can be programmed for each separate LED head.



CL42 LED Flood Array Light Sources

IDH: 2804955 (365 nm), 2804956 (405 nm)

The LOCTITE CL42 LED Flood Array Light Sources are offered in either 365 or 405 nm wavelengths. Each CL42 head is equipped with 120 high-power LEDs and integrated reflectors, providing uniform curing across a wide area (100 mm x 100 mm, or 4 in. x 4 in.).



CL42 LED Flood Chamber

IDH: 2804959

The LOCTITE CL42 LED Flood-Curing Chamber has been designed especially for use with the LOCTITE CL42 LED Flood-Curing System to cure UV and Visible Light-Cure Adhesives. It consists of a chamber with an adapter for one (1) or two (2) LED light sources, workpiece holder, door safety system, ESD safe door with window, and a controller connection.



Scan QR code to check out our new how-to-use video.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- LED flood-curing system offering long-life, energy-efficient, instant on/off performance.
- Connect up to two (2) LED flood heads.
- Intensity adjustment for each channel.
- Large cure area (100 mm x 100 mm, or 4 in. x 4 in.).
- LED heads side-by-side stackable.

CL40 LED Spot-Curing System

The LOCTITE® CL40 LED Spot-Cure System offers a cost-effective, high-output solution for all your light-curing needs. Its compact size and multi-channel design offer a high level of flexibility for integrating into most manufacturing processes. The system provides all the benefits of LED technology while maintaining one of the highest intensity outputs available.



CL40 LED Spot Quad Controller

IDH: 2804936

The LOCTITE CL40 LED Spot-Curing Quad Controller operates up to four (4) CL40 LED Light Sources. It can be operated in a continuous light output mode, or up to a 10-step, programmed output mode, where the light output intensity and time can be programmed for each separate LED head.

CL40 LED Spot Light Sources

IDH: 2804938 (365 nm), 2804937 (405 nm)

The LOCTITE CL40 LED Spot-Curing Light Sources are used to cure UV and Visible Light-Cure Adhesives. They are available in 365 nm and 405 nm wavelengths.



Scan QR code to check out our new how-to-use video.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- LED spot-curing system offering long-life, energy-efficient, instant on/off performance.
- Operates up to four (4) LED heads.
- Compact LED head design.
- Intensity adjustment for each channel.
- Resistive color touch screen for ease of operation.

CureJet CL28 LED Spot-Curing System

The LOCTITE CureJet CL28 Spot-Curing System is a high-power, LED Spot-Curing System that offers wider cure area and curing intensity versus typical LED spot devices. It provides the optimum processing speed and cure performance.



CureJet CL28 LED Spot Quad Controller

IDH: 1180632

The LOCTITE CureJet LED Spot-Curing Quad Controller provides power and control for up to four (4) LOCTITE CureJet LED Spot-Curing Light Sources. Time and intensity for each of the four (4) channels can be independently adjusted.

CureJet CL28 LED Spot Single Controller

IDH: 1364033

The LOCTITE CureJet LED Spot-Curing Single Controller provides power and control for one (1) LOCTITE CureJet LED Spot-Curing Light Source. It offers simple and easy timed control of the CureJet Light Source.



CureJet CL28 LED Spot Light Sources

IDH: 2183339 (380 nm), 2183340 (405 nm)

The LOCTITE CureJet CL28 LED Spot-Curing Light Sources are our highest intensity LED spot-curing devices available. With intensities up to 27 W/cm², this system delivers extremely high power for all your fast-curing needs. The innovative design combines both high intensity with a significantly wider cure area than most spot systems for maximum performance. The CL28 Light Sources come in 380 nm and 405 nm wavelengths.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- LED spot-curing system offering long-life, energy-efficient, instant on/off performance.
- Control of one (1) to four (4) LED heads.
- Intensity adjustment for each channel (Quad Controller).
- Available wavelengths of 380 nm and 405 nm.
- Multiple programming modes.
- LED heads side-by-side stackable.

LIGHT-CURING SYSTEMS

LED Light-Curing Systems

CL32 LED Spot Handheld Light Sources

IDH: 2182210 (365 nm), 2182207 (405 nm)



The LOCTITE® CL32 LED Spot-Curing Light Sources are cost-effective, high-powered, portable LED light sources that offer a high level of flexibility for UV or Visible light-curing needs. The lightweight, compact design helps minimize operator fatigue, while its small size and long focus length make it perfect for applications in hard-to-reach bond areas. Usable as a handheld or stationary mount, this system is perfect for prototyping, scale-up, or full production environments.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- LED handheld spot-curing system offering long-life, energy-efficient, instant on/off performance.
- High intensity.
- Battery-powered with long battery life.
- Small, compact, ergonomic design.

Process Control & Monitoring Systems

PM20 UV VIS and UV A/B Radiometers

IDH: 2436352 (UV VIS), 2436353 (UV A/B)



The LOCTITE PM20 UV VIS Radiometer and LOCTITE PM20 UV A/B Radiometer are an industry-first for measurement of LED light-curing devices. The PM20 UV VIS Radiometer is used to measure LED light-curing devices that emit primarily in the Visible wavelengths, while the PM20 UV A/B Radiometer is used to measure LED light-curing devices that emit in the UVA and UVB wavelengths. These radiometers can also be used with curing chambers, conveyors, and flood lamps. Each of the radiometers combines all-in-one exposure, intensity measurement, and profile memory capability into one device.

COMPATIBLE ADHESIVE TECHNOLOGIES:



FEATURES:

- Specifically designed for use with LOCTITE LED and bulb-based curing systems.
- Digital display of peak intensity and total exposure.
- Graphical display of intensity vs. time.
- Exportable data file.

Protective Equipment Manufacturer Speeds Output & Quality of Face Shields with Adhesive Assembly Process.

CUSTOMER CHALLENGE:

A personal protective equipment manufacturer needed to increase throughput of its high-demand face shields. The previous assembly method was slow and required parts to sit to cure sufficiently. The manual process also resulted in variable quality and failure rates.

HENKEL SOLUTION/BENEFITS:

A **LOCTITE Light-Curing Instant Adhesive** in conjunction with **LOCTITE dispensing and LED curing equipment** provided the design and manufacturing flexibility that was needed. The adhesive is dispensed using a simple, easy-to-use **LOCTITE RC30 Reservoir** and **Vari-Drop® Valve**. The face shields are then cured using the **LOCTITE CL30 Flood System with Quad Controller**. This total solution delivered the following benefits:

- Increased throughput (very rapid cure process)
- High reliability and repeatability (adhesive and equipment performance)
- Improved quality (accuracy in adhesive placement and cure)



Photo representative only, not actual application.

Plastic Water Pitcher Manufacturer Implements Adhesive Assembly Process for Design & Manufacturing Flexibility.

CUSTOMER CHALLENGE:

A manufacturer of plastic water pitchers had previously used ultrasonic welding for their assemblies. As new designs came on-line, the manufacturer was required to adapt the welding equipment to accommodate. In addition, to keep up with production requirements, multiple assembly lines and personnel were required.

HENKEL SOLUTION/BENEFITS:

A **LOCTITE Light-Curing Acrylic Adhesive** is dispensed in the varying patterns required using a **LOCTITE RC40 Integrated Dispenser, Light-Cure Dispense Valve** and **RB40 200-D Series Automated Dispensing Robot**, and then cured with the **LOCTITE CureJet CL28 LED Spot System**. Four **CureJet CL28 LED Spot Heads** are positioned around the part and controlled simultaneously using the **CureJet Quad Controller**. This total solution delivered the following benefits:

- Flexibility in design (the adhesive and equipment can be quickly adapted to changes in design)
- Increased production (rapid cure and semi-automated process)
- Improved quality and reliability (accurate, repeatable dispense)



Photo representative only, not actual application.

CONSUMABLES FOR DISPENSING SYSTEMS

Henkel offers a comprehensive line of LOCTITE® brand dispense tips and static mix nozzles. All are uniquely tailored to LOCTITE equipment and adhesive technologies, so you have a reliable and complete process in place. A wide variety of tips and mix nozzles are available to meet all of your adhesive dispensing needs.



NEEDLE TIPS

Our high-precision stainless steel, tapered polyethylene and flexible polypropylene dispensing needles/dispensing tips all feature a positive locking, helical thread design to ensure the tip will stay intact during the toughest applications.

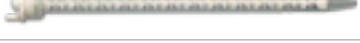


MIX NOZZLES

Choosing the correct mix nozzle is a critical step in ensuring your two-part adhesive is properly mixed during the dispense cycle. LOCTITE consumables offer a wide variety of static mix nozzles that have been carefully tested to provide the best performance with our LOCTITE adhesive products. These are offered in many configurations for compatibility with the wide range of cartridge sizes and styles that are available.

HIGH-PRECISION TAPERED DISPENSING NEEDLES & TIPS				
1-1/4" DISPENSE NEEDLE, HDPE TAPERED TIP, HELICAL THREAD				
Product Image	IDH #	Package Qty.	Hub Color	Gauge
	600941	50	White	14
	600947	1,000		
	600951	50		
	600955	1,000	Grey	16
	600957	50		
	600958	1,000		
	600959	50	Green	18
	600971	1,000		
	600972	50		
	600973	1,000	Pink	20
	862838	50		
	862837	1,000		
	862834	50	Blue	22
	862831	1,000		

HIGH-PRECISION STAINLESS STEEL DISPENSING NEEDLES & TIPS				
1/2" DISPENSE NEEDLE, HIGH-PRECISION STAINLESS STEEL				
Product Image	IDH #	Package Qty.	Hub Color	Gauge
	1244444	50	White	14
	600974	50	Amber	15
	600975	1,000		
	567209	50	Green	18
	600976	1,000		
	600977	50		
	600978	1,000	Pink	20
	601003	50		
	601007	1,000		
	600979	50	Purple	21
	600982	1,000		
	806854	50		
	806855	1,000	Blue	22
	601000	50		
	601001	1,000		
	1255059	50	Orange	23
	1255058	1,000		
	1256848	50		
	1256497	1,000	Red	25

STATIC MIX NOZZLES			
MIX NOZZLES FOR 10 ML (11 GR) DUAL CARTRIDGES			
Product Image	IDH #	Package Qty.	Description
	1434516	5	CA Mix Nozzle, Taper Tip; 2.4" overall length, 2.5 mm inner diameter, 16 elements; 4:1, 10:1 mix ratios – B + S Cartridges.
MIX NOZZLES FOR 50 ML DUAL CARTRIDGES			
Product Image	IDH #	Package Qty.	Description
	720225	10	50 ml Mix Nozzle, Luer Tip; 6.0" overall length, 6.35 mm inner diameter, 21 elements; 1:1, 2:1, 4:1 mix ratios.
	720230	10	50 ml Mix Nozzle, Stepped Tip; 6.0" overall length, 6.3 mm inner diameter, 21 elements; 1:1, 2:1, 4:1 mix ratios.
	720227	10	50 ml Square Mix Nozzle, Luer/Stepped Combo Tip; 4.5" overall length, 5.3 mm inner diameter, 24 elements; 1:1, 2:1, 4:1 mix ratios.
	1034575	10	50 ml Mix Nozzle, Stepped Tip; 6.2" overall length, 6.5 mm inner diameter, 20 elements; 1:1, 2:1 mix ratios – B Cartridges.
	1573149	10	50 ml Static Mix Nozzle, Stepped Tip; 6.18" overall length, 6.5 mm inner diameter, 20 elements; 1:1, 2:1 mix ratios.
	1573153	10	50 ml Square Mix Nozzle, Taper Tip; 4.8" overall length, 5.3 mm inner diameter, 24 elements; 1:1, 2:1 mix ratios – B Cartridges.
MIX NOZZLES FOR 200/400 ML DUAL CARTRIDGES			
Product Image	IDH #	Package Qty.	Description
	720173	10	200/400 ml Mix Nozzle, Stepped Tip; 7.3" overall length, 6.3 mm inner diameter, 24 elements; 1:1, 2:1 mix ratios.
	720174	10	200/400 ml Round Mix Nozzle, Stepped Tip; 8.8" overall length, 8 mm inner diameter, 24 elements; 1:1, 2:1 mix ratios.
	720177	10	200/400 ml Mix Nozzle, Stepped Tip; 10.9" overall length, 10 mm inner diameter, 24 elements; 1:1, 2:1 mix ratios.
	1084092	10	490 ml Mix Nozzle, Stepped Tip; 11.2" overall length, 10 mm inner diameter, 24 elements; 10:1 mix ratio.
	1084255	10	490 ml Mix Nozzle, Stepped Tip; 9.1" overall length, 8 mm inner diameter, 24 elements; 10:1 mix ratio.
	1573138	10	200/400 ml Mix Nozzle, Stepped Tip; 9.2" overall length, 8.0 mm inner diameter, 24 elements; 1:1, 2:1 mix ratios.
	1573135	10	200/400 ml Mix Nozzle, Stepped Tip; 7.6" overall length, 6.3 mm inner diameter, 24 elements; 1:1, 2:1 mix ratios.
	874905	10	200/400 ml Square Mix Nozzle, Threaded Bell End; 7.3" overall length, 114.5 mm inner diameter, 24 elements; 1:1, 2:1 mix ratios.

For the complete line of LOCTITE® Dispensing Accessories, please visit us online at: www.henkel-adhesives.com/loctite-equipment.html.



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