

OFF-THE-SHELF. OR CUSTOM. WE'LL FILL YOUR
APPLICATOR SPECIFICATIONS FLAWLESSLY.

OUR VAST ARRAY OF SYNTHETIC AND NATURAL HAIR APPLICATORS
WILL EXCEED YOUR NEEDS. WANT OPTIONS? WE'VE GOT OPTIONS.

In a world that's ever more complex, technology-driven,
and precision-based, it's important to get a partner that's
as focused on your manufacturing process as you are.
That's us.

We're Designetics, the acknowledged leader in fluid
application systems and solutions. After all, we understand
your competition never rests—and the measure of your
success relies on flawless execution, less spoilage and tight
control over your manufacturing process.

FULLY AUTOMATIC

FLEXIBLE
MANUFACTURING

DESIGNETICS[®]
compliance[®]



WE BUILT AN INDUSTRY

More than 35 years ago, an automotive manufacturer came to us with a challenge to make a better process to apply fluid to assembly line windshields. And so, we created an industry—and have been adapting, growing, and innovating ever since to give our clients the best possible fluid application solutions and systems.

Sometimes, that means creating fluid applicators from scratch, sourcing just the right brush or tip materials in an exacting manufacturing process to provide our clients with perfect—and repeatable—results every time. And sometimes, that means sitting down with clients and mapping out their production process, outlining ways Designetics products can improve their workflow. And sometimes, it means creating automated solutions, tapping into robotics to ensure precise and focused fluid application and results.

MANUAL, SEMI, AND FULLY-AUTOMATED SOLUTIONS



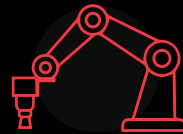
MANUAL APPLICATIONS

Maximize labor force and produce
repeatable results



SEMI-AUTOMATED APPLICATIONS

Increase productivity and
reduce errors



AUTOMATED APPLICATIONS

Enhance assembly line efficiency
and reduce workforce costs

These time-tested and production-oriented solutions come in three varieties—manual, semi-automated and automated applications—offering the utmost in flexibility when incorporating our products in manufacturing settings.



Our manual solutions allow assembly line operators to apply fluids to a substrate consistently while our semi-automated offerings incorporate pumps to the manual labor application, providing consistency in fluid dispersal. Finally, our automated solutions take full advantage of robotic assembly, using sophisticated automation and closed-loop systems to blend into assembly lines.

Working with Designetics—in whatever form—offers manufacturers unmatched opportunities, like task repetition with consistent results, reduced waste and significant reductions in environmental hazards from adhesive and fluid spillage or airborne chemicals.

MANUAL SOLUTIONS

APPLICATORS

For decades, our core business has been offering manufacturers easier ways of applying fluid by way of a variety of applicators. In fact, over the years, we've created thousands of different types of applicators, in a host of styles and sizes.

Just a few of the types of applicators are:

- Brush
- Round
- Channel
- Wraparound
- Flat



Even though we've created thousands of different types of applicators, we acknowledge that manufacturers have very specific needs. For that reason, we offer the opportunity to create wholly new applicators, using rapid prototyping and expert consultation to fit exacting specifications. We also work closely with major chemical suppliers to test and understand variations in chemical applications.

BOTTLES, CAPS, AND MANUAL PUMP HEADS

To complement our applicators, we offer a dynamic range of plastic bottles, caps, and pump heads in a variety of sizes and shapes, to save, store and dispense everything from liquids to gels.

*Note: Applicators are also used in semi-automated and fully automated settings.
Bottles and caps are used in manual applications.*

AUTOMATED SOLUTIONS



e3 SERIES PRECISION PUMP UNITS

The e3 series pump units use positive-displacement (peristaltic) pumps that can dispense a wide range of fluids precisely and accurately. With the e3mini and e3multi, the pumps come with a built-in HMI, where users can set multiple settings to dial in their process. These units can be integrated into a system by providing an ethernet, analog or discrete IO signal.

For a single application line, the e3mini can be used and for applications that require multiple lines, the e3multi would be the choice as it can be configured for either two or three pumps.

The e3minimax is a compact peristaltic pump that does away with the need for HMI control, given that it's set up and controlled via web interfaces through an Ethernet. This unit includes a servo-driven pump, rated up to 220V, which has a large range of operating speeds from 0-250 RPM. For multiple applications, e3minimax units can be all connected to an Ethernet and controlled through the installed web HMI.





DISPENSERS

Our state-of-the-art dispensers are ideal for semi-automated and fully automated processes, letting customers control the flow of fluids with consistent, accurate and repeatable results every time.

This ensures assembly procedures in manufacturing are replicable and precise. That's important in mission-critical situations, so assembly lines aren't bogged down with errors or work stoppage. That also means our dispensers can speed the line, offering manufacturers more opportunity to turn out more product in an error-free and enhanced environment.

What's more, our dispensers offer an instant upgrade to previously manual bottle processes, ensuring the consistent and rapid delivery of fluid onto substrates.

Please note our products are designed to be used exclusively with Designetics-branded applicators.

PRECISION AIR COMPLIANCE

Our Precision Air Compliance has a double-acting, non-rotating cylinder with an air bearing and has a 0.75-inch stroke. Using two pressure regulators, upward and downward pressure can be set to ensure a constant pressure on the applicator. This tool uses shop air, and the regulators can be set at appropriate pressures; the regulators can be set from 0 to 30 PSI with the downward pressure being higher than the upward pressure. The two pressure regulators and the air manifold can also be removed and mounted as required. This Compliance can be also configured with an applicator stripper, which is controlled with a customer supplied Robot/PLC.

HANDHELD REMOTE

Our Handheld Remote is used in semi-automated applications—in conjunction with the Designetics e3mini or e3multi—to provide consistent fluid to a Designetics applicator. The unit provides a signal, triggering the operation of a pump on the e3mini or e3multi. Fluid is dispensed through the unit by installing disposable tubing, which connects to the pump head of the e3mini or e3multi through the device.

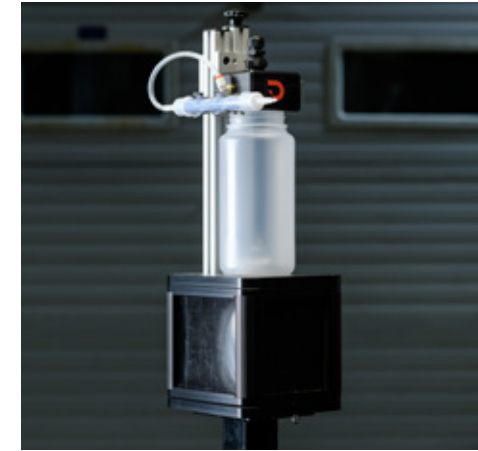




BOTTLE HOLDERS

Our 10601 Series Bottle Holder is designed to ensure your fluid is free of contaminants, offering an airtight seal for standard one-liter or one-gallon manufacturer's containers. It's ideal for dispensing fluid using our e3 Series Precision Pump Units and can be equipped with a level detection system. The Designetics bottle holder can also be adapted to fit the size of your primer container.

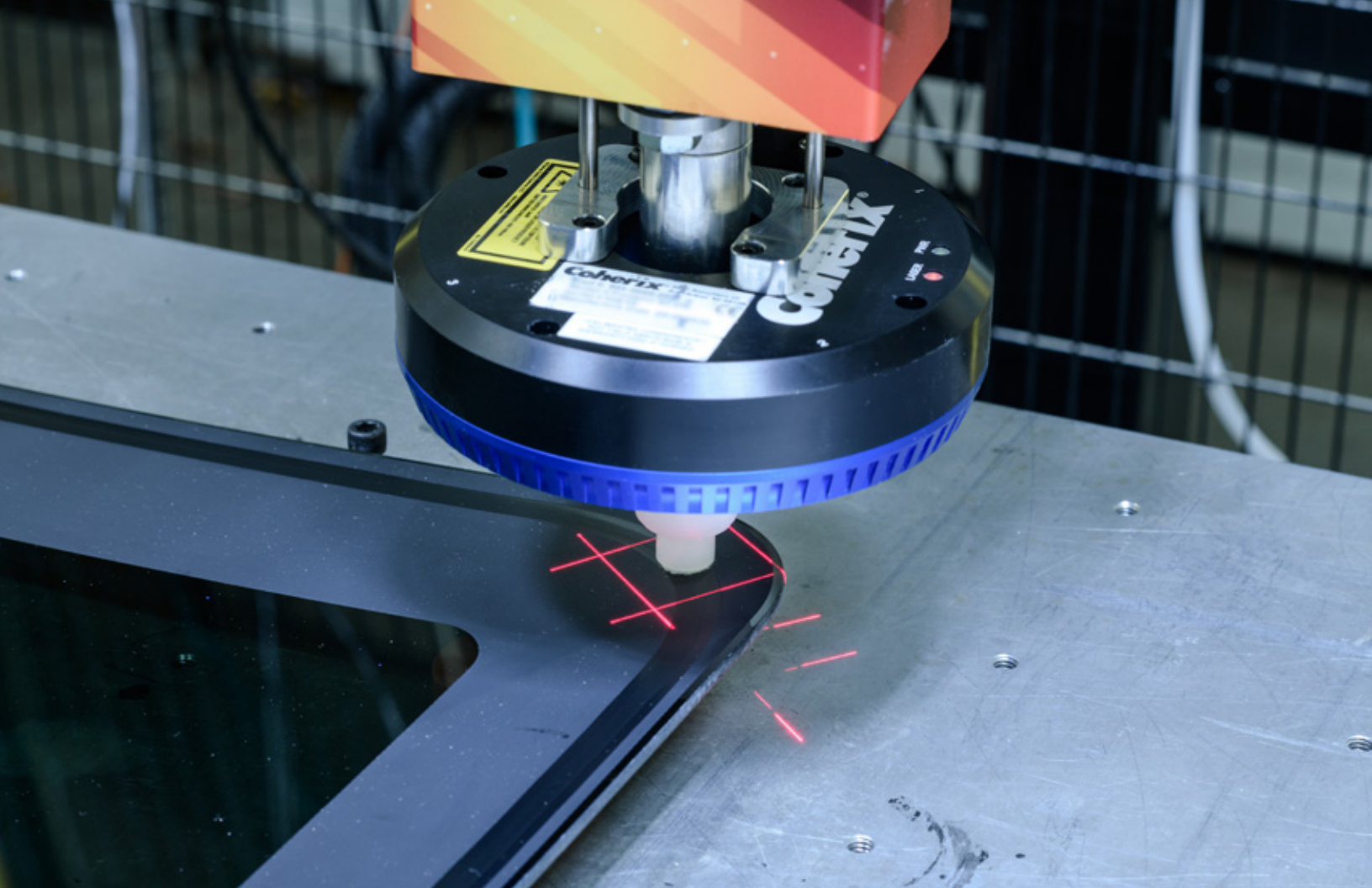
The 10601 Series Bottle Holder has several potential options, including a stir plate which ensures solids and solvents stay mixed. The stir plate also includes a load cell level sensor, which monitors the weight of the bottle to alert operators when the amount of material in the bottle is low. Another option is the low-level digital sensor, used for clear materials, which indicates when the material in a bottle reaches a certain level.



APPLICATOR TRACK

The Applicator Track can be used to supply a fixed number of applicators to an exact repeatable location, oriented to the specific dimensions of the part. The gravity-fed unit pushes the applicator into position and the sensors indicate when the track is low or if the applicator is not in proper position for pickup. The track comes with a docking station for a resting position between applications and a tamping station for removing excess material after initial wet-out of the applicator.





SOLUTIONS DESIGNED FOR SPECIFIC APPLICATIONS

CE360

Our Ce360 laser scanner provides an advanced inspection solution in real time, using four high-speed laser sensors surrounding a dispensing nozzle to visually track and inspect the applied primer in any direction without blind corners. Processing 1,600 samples per second, the Ce360 offers industry-leading acquisition speed, avoiding production slow-downs and boosting productivity.



HORIZONTAL DP3

The Horizontal dp3 combines the technology of our 5000 Automatic Flow Dispenser with an easy-to-use fixture. The function of the unit is pneumatic, eliminating any flash source to reduce risks when using flammable fluids. The Horizontal dp3 features a compact system that can be installed on production lines and is capable of being mounted to nearly any work surface.

OPPORTUNITIES ABOUND

Regardless, working with Designetics—in whatever form—offers manufacturers unmatched opportunities. Opportunities like task repetition with consistent results. Opportunities like reduced waste because accurate application means less spoilage and scrap. Opportunities like a significant reduction in environmental hazards from adhesive and fluid spillage or airborne chemicals, and opportunities for you to grow, thrive and ultimately beat your competition.

Any engagement with us begins with our time-tested process and it's simple: we listen. Instead of rushing to a force-fit solution or selling you products we already have...we listen. We listen to your challenges and needs.



**CONSISTENT
RESULTS**



**REDUCED
WASTE**



**REDUCTION IN
ENVIRONMENTAL
HAZARDS**



GROW



SOLUTIONS-BASED, SUCCESS-DRIVEN

Then, we roll up our sleeves and get to work. It may mean creating fluid application solutions from scratch. Or it may mean customizing existing applicator brushes and tips...or using any of our thousands of existing designs. It may mean integrating our industrial dispensing equipment in concert with applicators into your manufacturing chain. Or it may even mean customizing a never-been-done-before brand new solution.

Whatever the case, we work with you every step of the way. That means employing our process, where we map out your manufacturing cycle to determine best fits. Then, we brainstorm to create rapid prototypes of our solution, and recreate your manufacturing process to refine our products to work flawlessly. Then, and only then, do we bring it to you. But we don't stop there. We conduct on-site tests at your facility to ensure perfect results. That's the Designetics difference.

THE DESIGNETICS DIFFERENCE

DESIGNETICS WORKS
WITH YOU TO UNDERSTAND
YOUR SPECIFIC NEEDS,
REQUIREMENTS, AND PROCESS



CREATE RAPID PROTOTYPES
OF OUR SOLUTION



CONDUCT ON-SITE TESTS
TO ENSURE REQUIRED
RESULTS



CREATE A CUSTOMIZED
SOLUTION BASED ON
CUSTOMER REQUIREMENTS

RECREATE YOUR
MANUFACTURING PROCESS
TO TEST AND REFINE
OUR SOLUTION





HELPING YOU GROW

Countless manufacturers have used our solutions to run smarter, faster and more efficiently. That means they're continually poised for growth and more revenue, because of the benefits reduced labor costs and spoilage that's inherent from using our products. We've helped manufacturers in everything from personal watercraft manufacturing to retail packaging. And everything in between. Imagine what we can do for you.

**Get started by calling us at:
419-866-0700**

