A photograph of a factory floor with several orange robotic arms in operation. A person in a grey lab coat is standing in the foreground, looking at a tablet. The background shows a complex industrial environment with various machinery and structures.

# DESIGNETICS FOR INDUSTRIAL AUTOMATION

HELPING MANUFACTURERS CREATE EFFICIENCIES

## THE PROBLEM

Increasingly, manufacturers have turned to industrial automation to speed up workflow and assembly processes, removing the issue of inconsistent labor from the manufacturing equation. Still, automation is only as good as the tools designed to assist in the assembly process, and often, key components have been overlooked in the building process.

So, while manufacturers have retooled assembly lines with elaborate spot-welding robotics and the like, they haven't tapped the true potential of reducing costs, speeding production and eliminating errors by taking a holistic look at the entire assembly line and build process.

## THE SOLUTION

In our view, creating speed-to-market strategies involving industrial automation must look at every process involved in assembly. To that end, Designetics is uniquely poised to offer manufacturers ways to assemble even the tiniest of components and a variety of substrates, tapping its expertise in fluid and adhesives applications to offer a myriad of solutions.

For example, our applicators allow for highly accurate, highly repeatable application of adhesives or other fluids to substrates and plastic components via robotics, controlling the flow of fluids and ensuring application to exacting standards. Coupled with our state-of-the-art dispensing equipment, the applicators offer a systemic way to build, adhere and assemble components more effectively.

What's more, we have thousands of different applicators available, fitting almost any need off-the-shelf. And for those unusual manufacturing builds? We customize applicators to client specification, developing these tools through rapid prototyping and 3D printing. In addition, our process engineers consult with manufacturers, assessing their assembly line processes and making recommendations on dispensing equipment to integrate into workflow.

## THE RESULT

- ✓ IMPROVED PRODUCTIVITY
- ✓ LESS SCRAP AND SPOILAGE
- ✓ INCREASED MANUFACTURING SPEED
- ✓ REDUCED OVERALL ASSEMBLY COSTS

### AN EXAMPLE OF DESIGNNETICS TAPPING INDUSTRIAL AUTOMATION TO OVERCOME CHALLENGES

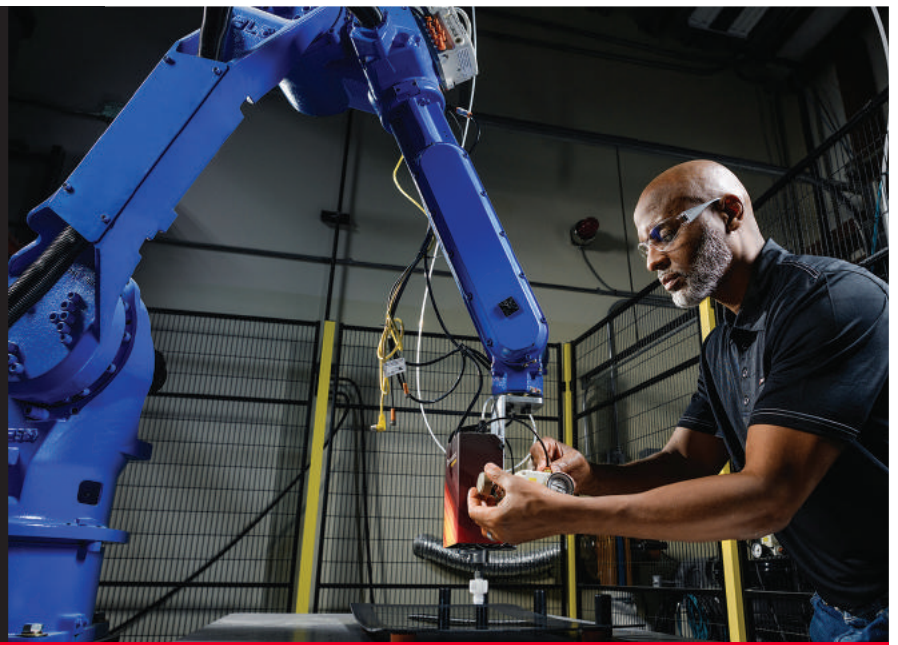
A manufacturer ran into a serious problem when assembling components, and sought out Designetics' expertise to smooth operations. The assembly line workers were using stencils to trace out an adhesive path onto a substrate, using bottles to apply liquid by hand. These stencils soaked up fluid, warping and ultimately causing the adhesive to creep under this template. What's more, the uneven application of the adhesive—with workers using too much pressure and too little—caused some components to be scrapped causing significant spoilage.

We consulted with the manufacturer, first offering a superior set of applicators and then fluid application systems, to support their integration of robotic equipment that used precise movements and constant pressure to eliminate mistakes—and the stencils altogether. The result: a smooth, repeatable application at an even rate of flow, with precise measurements and no errors.

### OUR APPLICATORS AND DISPENSING EQUIPMENT ARE IDEAL FOR:

- ✓ Glass Substrates
- ✓ Plastic Components
- ✓ Circuit Board Applications
- ✓ Foam-on-Foam Adherence

...and more.



Ready to enhance your manufacturing processes for more profits and quicker assembly?

Call us at 419-866-0700 for a FREE consultation.

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