

DESIGNETICS FOR THE MEDICAL INDUSTRY



CREATING A POINT OF DIFFERENTIATION WITH YOUR EQUIPMENT MANUFACTURING.

THE PROBLEM

As the population continues to age, more pressure is being exerted on the healthcare industry to provide lower-cost services, while maintaining high-touch care. In addition, emerging technologies are changing healthcare delivery systems. To that end, medical futurists are anticipating that augmented and virtual reality will undoubtedly open up new diagnostic paths for hospitals and healthcare institutions, as will an increase in healthcare trackers and wearable devices. Currently, smartwatches can provide limited diagnostic data on individuals, and futurists foresee a time when a visit to a doctor's office won't entail a visit at all—all diagnosis and communications will happen virtually.

That presents a challenge for medical equipment manufacturers: keeping up with technology will mean finding quicker ways to get to market with new devices. To this end, the winners will be those who can automate manufacturing, speeding device production while reducing cost-to-serve and maximizing profit potential. Unfortunately, for many manufacturers in all sectors, production still leans heavily on piece-meal construction and worker-reliant assembly lines.

THE SOLUTION

In our view, creating speed-to-market strategies to develop and produce medical diagnostic devices requires looking to manufacturing automation as much as possible. As the worldwide leader in adhesives and fluid application solutions, Designetics is uniquely qualified to help medical device manufacturers reduce costs, boost productivity, ensure quality control and gain competitive advantage.

For example, our applicators allow for highly accurate, highly repeatable application of adhesives or other fluids to substrates via robotics or manual labor, 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 HELPING THE MEDICAL DEVICE INDUSTRY

A manufacturer of diagnostic equipment needed a method of applying adhesives uniformly and precisely to a variety of assembly components. Unfortunately, its current methods resulted in uneven adhesive distribution, spoilage and time-consuming rework.

We consulted with the manufacturer, carefully assessing the assembly process and made recommendations for new applicators and automated adhesive applications. The Designetics applicators offered repeatable action and smoothed assembly, speeding operations and virtually eliminating makeovers.

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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