

The Company

A leading robotics and automation integrator serving Fortune 500 manufacturers in the automotive, aerospace, life sciences, and e-commerce sectors

APPLIED's Approach:

APPLIED partnered closely with the robotic and automation integrator as a technical and engineering collaborator, supporting the project from concept through execution.



The Challenge

An integrator was tasked with delivering a fully automated EV battery cell assembly, which includes battery encapsulation for electric vehicle applications. The system required:

- **Highly reliable, custom two-component polyurethane foam encapsulation dispensing system performance**
- **Engineering flexibility to adapt standard and custom dispensing equipment components for a unique application**
- **Tight collaboration across the integrator and APPLIED's engineering, service, and project teams**
- **Scalable support throughout design, installation, and commissioning**

The project was executed over multiple phases and demanded technical innovation beyond off-the-shelf solutions to include customization, with no existing system serving as a reference point.

Advanced Fluid Dispensing Engineering

APPLIED's Advanced Fluid Dispensing team worked alongside the company to:

- **Demonstrate engineering creativity and application expertise** to develop custom dispensing equipment to meet the demanding application-specific requirements
- **Adapt standard GRACO® components** as a foundation and customize key components into custom purpose-built dispensing solutions, support material, and process optimization, including transitioning from drum-based handling to totes to improve efficiency and reduce waste



Integrated Equipment & Service Support

Beyond system design, APPLIED provided:

- **End-to-end equipment support**—from dispensing design through installation, ongoing end-user support, and service
- **Factory-trained technicians and engineering resources** to support commissioning and long-term reliability of the dispensing system

This integrated approach ensured that our robotics and automation partner could rely on APPLIED not just as a supplier, but as a true engineering and service partner for adhesive and sealant dispensing solutions.

The Result

The collaboration resulted in:

- **A fully automated, one-of-a-kind two-component meter mix dispensing and supply system** for a production line supporting electric vehicle battery manufacturing
- **A strengthened relationship between APPLIED and the industry-leading integrator** after a sustained, multi-team effort
- **A project reflecting cross-functional collaboration** across the automation integrators' and APPLIED's engineering, equipment, service, sales, and project teams

Why It Matters:

This case demonstrates how APPLIED's Advanced Fluid Dispensing capabilities:

- **Extend beyond products into application-driven engineering**
- **Enable integrators like our client to deliver differentiated, custom automation solutions**
- **Support customers across the full project lifecycle, from concept through service**
- **Reinforce APPLIED's position as a trusted partner for complex, high-value automation projects**

The Key Takeaways

APPLIED's support of the leading integrator showcases the power of advanced fluid dispensing combined with deep engineering collaboration. By working side-by-side with integrator partners, APPLIED Advanced Fluid Dispensing Equipment Solutions Team can help turn complex automation challenges into scalable, reliable solutions—strengthening relationships and creating long-term value with System Integrators and End-Users.



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