

**Leading Automotive Manufacture Retrofits Vacuum Impregnation System**



**Main Objective:**

The purpose of this project was to provide the electrical design, PLC & HMI controls, and project management for the automation of a vacuum impregnation system. The system is used to eliminate corona effect on product by covering with resin.

**Customer Results:**

All systems controls performed as designed. The system process created a learning experience for near perfect vacuums and resin properties. The customer and end user were satisfied with OTI's engineering staff.

**Overview:**

- ❖ Hard plumbing and a vane vacuum pump create a near perfect vacuum. An airline pressure boost generates the necessary process pressure and pressure sensors detect the main line air pressure. A laser level sensor is used to measure the resin quantity in the resin storage tank. Recipes are used to set process parameters for the process resin.
- ❖ Industry Standards NEC & NFPA



*Every owner, manager, and key decision maker is an engineer. They have all been through the ranks and learned this business before they were given the responsibility to manage it. Diversity is also a key to our success. From a technical standpoint specific areas of expertise include: High Temperature applications, Automotive Paint Finishing, Pharmaceutical Automation, Web Handling Applications, Custom Software Solutions, and Safety. As a Systems Integrator, we are a 50/50 split between Continuous Process and Discrete Automation expertise.*

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