

Project Profile

Non-Woven Industry

Industrial Automated Systems was chosen as a crucial partner for a cutting-edge \$35 million greenfield non-woven web manufacturing facility situated in North Carolina. This investment aimed to boost production capacity by over 22,000 tons annually. Our responsibilities encompassed the design and construction of the primary PLC, Remote IO, Power distribution, and VFD panels for the state-of-the-art manufacturing line.

We integrated over 300 axis of Siemens SINAMICS S120 drives across 15 separate UL508A panels, with the largest panel stretching 60 feet in length. A significant challenge in the project was addressing known power quality issues. To tackle this, the large panel was engineered with a 1-second ride-through capability, ensuring critical control circuits remained stable during power fluctuations.

The utilization of Siemens Drive-Cliq cabling helped minimize wiring errors and streamlined startup and commissioning processes. Our design adhered to all Siemens standards and requirements, ensuring eligibility for a full manufacturer's warranty.

Customer satisfaction served as a vital measure of our success, evidenced by the project's early delivery and achievement of production targets. Installation services were provided by our affiliate, Triune Electric.



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