

Project Profile

Automotive Industry

Industrial Automated Systems successfully completed a new greenfield project for a major Electric Vehicle (EV) car manufacturer in California. IAS provided comprehensive electrical engineering services to design the conveyor system, including PLC programming, HMI application development, VFD parameterization, Profinet and ASi network design, and control panel design.

In our panel shop, we meticulously constructed and rigorously tested six (6) multi-door enclosure systems to house the PLCs, and VFDs, twenty-five (25) junction boxes to accommodate the HMIs and remote I/O, and one hundred and fifty (150) various junction boxes, all meeting the UL508A standards and UL labeled.

The following Siemens hardware was incorporated into the project:

- (13) S7 300 Failsafe Programmable Logix Controllers
- (13) ComfortPanel HMIs
- (37) G110 and G120 Variable Frequency Drives
- (19) racks of ET 200 Remote I/O
- Ethernet switches, power supplies, circuit protection, pilot and safety devices, alarm signaling towers, and programming ports.

Engineering completed the project with startup and commissioning. Our project managers managed internal and external resources to assure the critical project deadline was met and delivered on budget.



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