

Web HMI Application Development for Monitoring Welding Consumables



The Client & Industry

American Swedish welding and cutting equipment manufacturer based out of India

The Challenges

Develop a WEB HMI for a for welding consumables to visualize the welding operations by efficiently tracking key parameters for each weld seam produced

Business Value Delivered

- Push settings to machines, such as a new weld parameter combo
- User-friendly interface: Web, Tablet & PC
- Adjust all welding and machine setup parameters directly from the HMI screen
- Service technicians can be proactively alerted if equipment has an anomaly or breaks down, allowing for preventative and even predictive maintenance

Our Solutions

- Portable HMI used to interact with the robot system in a variety of ways
- UI Components library finalization
- UI Base Framework development
- Welding View and Parameters – Show measured voltage, current, Wire feed speed
- Adjust set values of Voltage, Current and Wire feed
- Jobs View, Errors and Notifications – Errors & Warning notifications with timestamp
- Dashboard – Show errors and warnings
- API Request processing and Mock Response for System Settings
- System Setup – Field bus settings – Ethernet IP
- System Setup – Basic Device Map – Ethernet IP-Fanuc
- IoT based Cloud Platform & IoT Device Integration