

FALCON AUTOMATION TECHNOLOGY

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ABOUT US - Falcon Automation Technology is a leading company in India, providing high-quality integrated automation technology solutions and services. Our real strength is our expertise in system engineering. We have executed 100+ prestigious assignments in all industry sectors, and we have established ourselves as a leading and reputed firm dealing with prestigious organizations and more than 50 small, medium and large private sectors like food, Dairy and beverages, automobiles, boiler, pharmaceuticals, SPM Manufacturer, electroplating, BMS and EMS, water treatment, etc. We also committed to and focused on process applications like sugar, chemicals, paints, etc.

We are a leading system integrator and undertake turnkey projects for PLCs, drives, networking products, field instruments, HMI systems, and SCADA systems, including software development, installation, and commissioning of instrumentation and automation systems.

We have developed our strengths in smart manufacturing solutions, which include IIoT and Industry 4.0 implementation.

Complete in-house manufacturing of control panels for the food and dairy industry, such as PLCs, HMIs, SCADA control panels for pasteurizer plants, CIP operations, powder plants, ice cream plants, homogenizers, water treatment plants, etc., and other various operations of the dairy segment, with the capability of complete engineering, supply, site erection, and commissioning. Apart from these, we are also familiar with brands that supply PID/data logger panels, variable frequency drive panels, MCC control panels, PCC control panels, PLC panels, LT panels, electric hooter control panels, and any customized panels based on the customer's specific requirements.

OUR PHILOSOPHY –

Team with our customers to achieve manufacturing excellence by delivering the right automation solutions.

OUR MISSION IS TO –

- Provide customers quality automation solutions aimed at enhancing their productivity
- Embrace system driven work culture
- Develop sustainable and lasting relationships with customers
- Foster a family-like environment for our employees

OUR VISION

To be recognized as eminent automation solutions provider for focused verticals across the global.

WE HAVE EXPERTISE IN -

- PLC system implementation
- SCADA
- VFD & Servo Drives
- Field Instrument Detailing and Designing
- Panel designing and manufacturing

PLC EXPERTISE –

- Rockwell Automation
- Siemens Automation
- Schneider Electric
- Delta
- Mitsubishi PLC

SECTOR EXPERTISE –

- Food processing industries
- Pharmaceutical industries
- Water treatment
- BMS Automation
- Electroplating
- Automobile Industries
- SPM Automation

SIEMENS

Ingenuity for life



Allen-Bradley

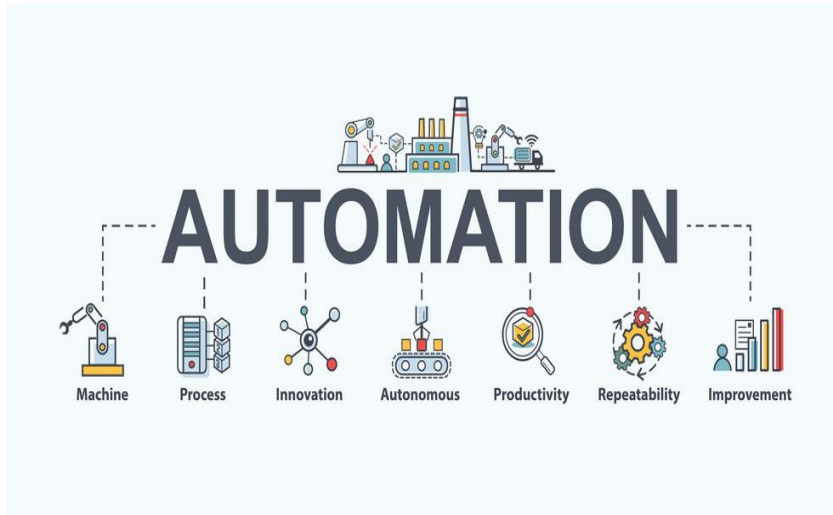
by ROCKWELL AUTOMATION

Schneider Electric



OUR SERVICES –

PLC AUTOMATION –



1. PLC Programming and Configuration:

- Expertise in developing customized PLC programs for different industries.
- Programming languages: (Specify languages supported, e.g., ladder logic, function block diagrams).
- Tailored solutions for diverse automation needs.

2. System Integration:

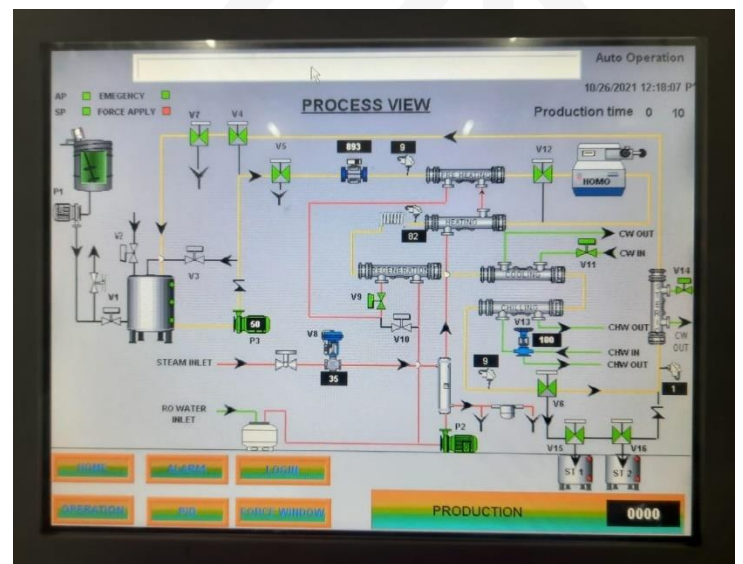
- Seamless integration of PLC systems with existing equipment and control systems.
- Interfacing PLCs with SCADA, HMI, and other automation components for comprehensive control.

3. SCADA Control Systems

Along with PLC and HMI control systems we also integrate supervisory control and data acquisition system. Advanced SCADA software allows control and automation with increased efficiency, high reliability, and superior visualization. We offer SCADA systems and 21 CFR PART-11 SCADA HMI. We provide SCADA control systems solutions to help streamline processes and provide valuable information to decision-makers.

4. Process Control and Optimization:

- Advanced control strategies for precise regulation of industrial processes.



- Continuous optimization to enhance efficiency, reduce waste, and improve overall productivity.

5. Quality Control and Assurance:

- Implementation of PLC-based systems for real-time quality monitoring and assurance.
- Integration with sensors and feedback loops to maintain consistent product quality.

6. Batch Processing Solutions:

- Automation of batch processes for accurate ingredient dispensing and recipe execution.
- Improved batch consistency and reduced production times.



7. HMI and SCADA Development:

- Design and development of intuitive Human-Machine Interface (HMI) systems.
- SCADA systems for comprehensive monitoring, data acquisition, and reporting.

8. Training Programs:

- Comprehensive training programs for clients and their personnel.
- Courses covering PLC programming, system maintenance, and troubleshooting.

9. Maintenance and Support:

- Ongoing maintenance services to ensure the reliability and performance of PLC systems.
- Prompt and efficient support for issue resolution.

10. Compliance and Regulatory Services:

- Ensuring PLC systems comply with industry standards and regulations.
- Assistance in obtaining certifications for regulatory compliance.

CONTROL PANEL

1. Custom Control Panel Design:

- Tailored control panel solutions designed to meet the specific requirements of each client.
- Expertise in creating control panels for various industries, including manufacturing, energy, and process automation.



2. PLC Integration:

- Seamless integration of Programmable Logic Controllers (PLCs) into control panel designs.
- Programming and configuration to ensure optimal performance and functionality.



3. HMI and SCADA Integration:

- Incorporation of Human-Machine Interface (HMI) and Supervisory Control and Data Acquisition (SCADA) systems into control panels.
- User-friendly interfaces for efficient monitoring and control of industrial processes.

4. Motor Control Centers (MCCs):

- Design and assembly of Motor Control Centers for the control and protection of electric motors.
- Integration of variable frequency drives (VFDs) for precise motor control.



5. Power Distribution Panels:

- Custom power distribution panel design to efficiently distribute electrical power within facilities.
- Compliance with safety standards and regulations.

6. Process Instrumentation:

- Integration of instrumentation and sensors to monitor and control industrial processes.
- Accurate measurement and feedback mechanisms for improved process efficiency.

7. Safety Systems:

- Implementation of safety features within control panels to ensure the well-being of personnel and equipment.
- Compliance with safety standards and regulations.



8. Remote Monitoring and Control:

- Incorporation of remote monitoring and control capabilities into control panel designs.
- Enhanced accessibility and real-time data access.

9. Energy Efficiency Solutions:

- Design of energy-efficient control panels to optimize power consumption.
- Integration of energy management systems for sustainability.

10. Panel Testing and Quality Assurance:

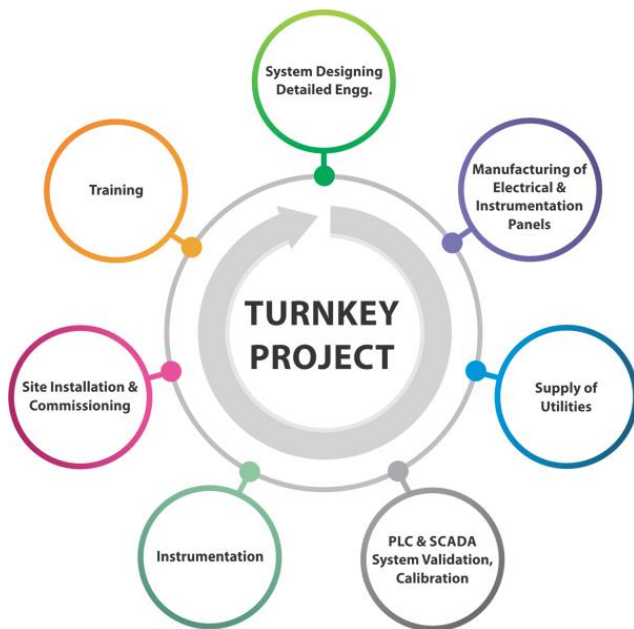
- Rigorous testing procedures to ensure the reliability and performance of control panels.
- Compliance with industry standards and quality assurance protocols.

11. Documentation and Training:

- Comprehensive documentation for control panel installations, including wiring diagrams and manuals.
- Training programs for operators and maintenance personnel.



Turnkey Solutions - PLC Automation



1. Consultation and Needs Assessment:

- In-depth consultation to understand client requirements, challenges, and goals.
- Thorough needs assessment to tailor the turnkey solution to specific industry demands.

2. System Design and Engineering:

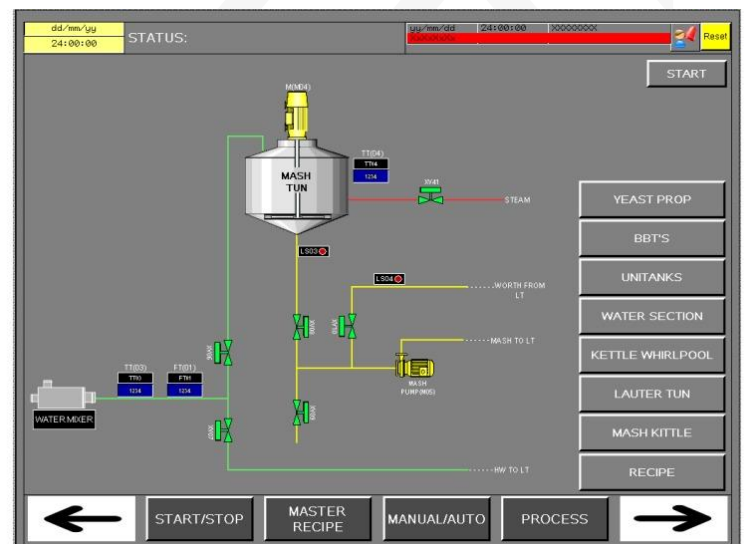
- Customized design of PLC-based automation systems to meet client specifications.
- Engineering solutions that optimize efficiency, reliability, and scalability.

3. PLC Programming and Configuration:

- Expert PLC programming and configuration for seamless integration into the automation system.
- Development of logic control strategies tailored to the unique needs of each application.

4. HMI and SCADA Development:

- Creation of Human-Machine Interface (HMI) and Supervisory Control and Data Acquisition (SCADA) systems.
- Intuitive interfaces for real-time monitoring, data acquisition, and system control.



5. Control Panel Design and Fabrication:

- Design and fabrication of control panels with integrated PLC, HMI, and other control components.
- Incorporation of safety features, instrumentation, and communication interfaces.

6. Equipment Procurement and Integration:

- Procurement of necessary automation equipment and components.
- Integration of PLC systems with existing machinery and equipment.

7. Installation and Commissioning:

- On-site installation of automation systems and control panels.
- Commissioning services to ensure proper functionality and performance.

8. Testing and Quality Assurance:

- Rigorous testing procedures to validate the reliability and accuracy of the automation system.
- Compliance with industry standards and quality assurance protocols.

9. Training Programs:

- Comprehensive training programs for operators, maintenance staff, and system administrators.
- Empowering clients with the knowledge to operate and maintain the implemented solution.

10. Maintenance and Support Services:

- Ongoing maintenance services to ensure the continued reliability of the automation system.
- Prompt support for issue resolution and troubleshooting.



11. Documentation and Compliance:

- Thorough documentation of system architecture, wiring diagrams, and operational manuals.
- Assurance of compliance with industry standards and regulations.

Key Benefits of Our Turnkey Solutions

- Single-Point Accountability:

- Clients benefit from a single point of contact for the entire automation project, streamlining communication and accountability.

- Customization and Scalability:

- Tailored solutions that address the specific needs of each client, with the flexibility to scale as their operations grow.

- Expertise and Innovation:

- Leverage our team's expertise and commitment to incorporating innovative technologies in automation solutions.

- Efficiency and Productivity Gains:

- Improved operational efficiency, reduced downtime, and increased productivity through our turnkey automation solutions.

- Quality Assurance and Compliance:

- Rigorous testing, adherence to industry standards, and compliance with regulatory requirements ensure the highest quality.

SITE COMMISSIONING SERVICES



1. Pre-Commissioning Planning:

- Comprehensive Site Assessment: Conducting a thorough evaluation of the site to identify potential challenges and opportunities.
- Risk Analysis: Assessing potential risks and developing mitigation strategies for a smooth commissioning process.

2. Commissioning Strategy Development:

- Tailored Commissioning Plans: Developing detailed commissioning plans customized to the project requirements.
- Schedule Optimization: Strategizing to optimize commissioning timelines without compromising quality.

3. Equipment and System Inspection:

- Verification of Installation: Ensuring that all equipment and systems are installed according to specifications.
- Functionality Checks: Conducting functional checks to confirm that each component operates as intended.

4. Instrumentation and Control Checks:

- Calibration Verification: Verifying the calibration of instrumentation devices to ensure accuracy.
- Control System Testing: Testing and validating the functionality of control systems.

5. System Integration and Interoperability:

- Integration Testing: Ensuring seamless integration of various systems and components.
- Interoperability Checks: Verifying that different systems work cohesively to achieve overall project objectives.



6. Documentation Review:

- Verification of Documentation: Reviewing project documentation for accuracy and completeness.
- As-Built Documentation: Updating documentation to reflect the as-built status of the site.

7. Functional Testing:

- Performance Validation: Conducting comprehensive functional testing to ensure each system meets performance criteria.
- Scenario Simulations: Simulating real-world scenarios to validate system responses.

8. Safety Systems Testing:

- Emergency Shutdown Tests: Testing and validating emergency shutdown systems for safety compliance.
- Alarm and Alert Checks: Verifying the functionality of alarms and alerts for prompt response to critical situations.

9. User Training:

- Operator Training: Providing training sessions for operators on the use of control systems.
- Maintenance Staff Training: Equipping maintenance staff with the knowledge to address routine issues.

10. Final Acceptance and Handover:

- Client Approval: Seeking client approval and feedback on the commissioned systems.
- Project Handover: Formally handing over the commissioned site to the client.

11. Post-Commissioning Support:

- Warranty Period Support: Offering support during the warranty period to address any issues that may arise.
- Maintenance Recommendations: Providing recommendations for ongoing maintenance to maximize system longevity.

SECTOR EXPERTISE –

Food processing industries

Pharmaceutical industries

Water treatment

BMS and EMS for HVAC

Electroplating

Automobile Industries

SPM Automation

FOOD PROCESSING INDUSTRIES

DAIRY & BEVERAGES –

Dairy & Beverages processing are the core industries, we have been serving for years. We have good experience in food processing to develop PLC, HMI & SCADA for controlling, monitoring and report generation to help customer in smoothly operation, safe & less wastage of product. We have experience to provide control solutions for all processing equipment used for Dairies & Beverages.

In Food industries we offer automation system and services for

Clean in place systems (CIP)

Sugar syrup system

Batching and Blending system

Pasteurization system

Aseptic steriliser

UHT steriliser.



PLC Automation for Food Processing Industries - Our Services

1. Batch Processing Automation:

- Custom PLC programming for precise control of batch processes.
- Recipe management systems tailored to the unique requirements of the food processing industry.



2. Conveyor and Material Handling Systems:



- PLC-controlled conveyor systems for seamless material handling.
- Automated sorting and routing solutions to enhance workflow efficiency.

3. Temperature and Process Control:



- Precision control of temperature and process parameters for optimal food safety and quality.

- Automation of Pre-Heating, Heating, and cooling processes to meet industry standards.

4. CIP (Cleaning-in-Place) Systems Automation:

- PLC automation of CIP systems to ensure thorough cleaning and hygiene.

- Scheduled and controlled cleaning sequences to prevent cross-contamination.



5. Filling and Packaging Automation:

- PLC-controlled filling machines for accurate product volumes and reduced waste.

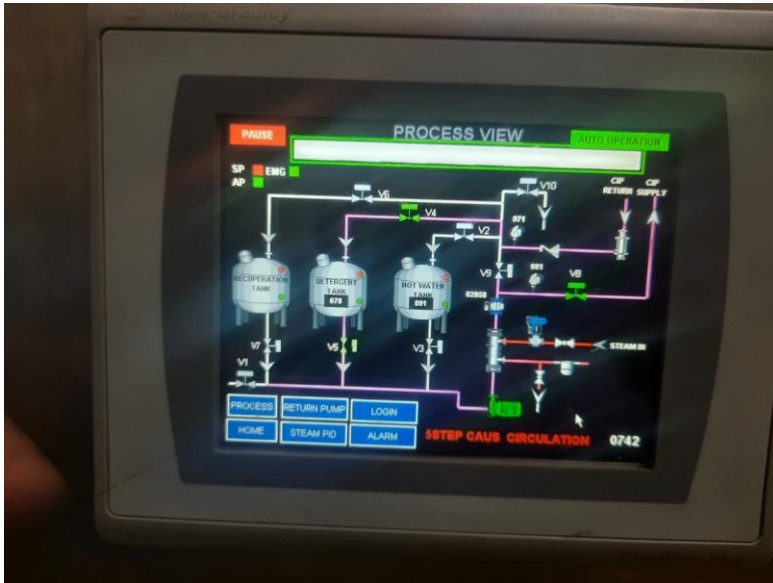
- Automated packaging processes, including sealing, labeling, and coding.



6. Quality Control and Inspection Solutions:

- Integration of PLCs with sensors and vision systems for automated quality control.
- Real-time monitoring and automated inspections to ensure product quality.

7. HMI (Human-Machine Interface) Systems:



- User-friendly HMI systems for real-time visualization and control of production processes.

- Customized interfaces designed for the specific needs of food processing operators.

8. Traceability and Data Logging:

- PLC-enabled traceability solutions to track raw materials and finished products.

- Data logging for compliance with regulatory requirements and quality control documentation.

9. Energy Management and Efficiency:

- PLC automation to optimize energy usage and reduce operational costs.
- Implementation of energy-efficient strategies aligned with sustainability goals.

10. Remote Monitoring and Control:

- PLC-supported remote monitoring for real-time adjustments and issue resolution.
- Secure remote access solutions to enhance system management capabilities.

11. Compliance with Food Safety Standards:

- PLC automation to implement and monitor processes ensuring compliance with food safety regulations.
- Automated record-keeping for audits and adherence to industry standards.

12. Integration with MES (Manufacturing Execution Systems):

- Seamless integration of PLCs with MES for comprehensive production data analysis.
- MES systems optimizing production scheduling and resource allocation.

PHARMACEUTICAL INDUSTRIES

Welcome to Falcon Automation Technology - Elevating Pharmaceutical Manufacturing Through PLC Automation

At **Falcon Automation technology**, we are the driving force behind innovation in pharmaceutical manufacturing. With a commitment to precision, compliance, and efficiency, we provide state-of-the-art PLC automation solutions that redefine the standards of excellence in the pharmaceutical industry.



Revolutionizing Pharmaceutical Manufacturing with Precision Automation

In the dynamic landscape of pharmaceuticals, precision is not just a requirement; it's our commitment. Our Programmable Logic Controller (PLC) automation services are meticulously designed to elevate every aspect of pharmaceutical manufacturing, from formulation to packaging, ensuring products of the highest quality meet the stringent regulatory demands.

Our Advanced PLC Automation Services -

- **GMP-Compliant PLC Programming:** Our PLC programming adheres to Good Manufacturing Practices (GMP), ensuring the highest level of precision and compliance in pharmaceutical processes.
- **21 CFR PART-11:** Along with PLC and HMI control systems we also integrate supervisory control and data acquisition system. Advanced SCADA software allows control and automation with increased efficiency, high reliability, and superior visualization. We offer SCADA systems and 21 CFR PART-11 SCADA HMI. We provide SCADA control systems solutions to help streamline processes and provide valuable information to decision-makers.
- **Batch Processing Excellence:** Experience seamless batch processing with customized automation solutions that guarantee accurate dispensing, formulation, and consistent production.

- **Cleanroom Expertise:** Navigate the challenges of cleanroom environments effortlessly with automation systems that prioritize contamination control and product integrity.

- **Quality Control Integration:** Integrate PLCs seamlessly with quality control systems, ensuring automated validation procedures for adherence to regulatory requirements.

- **Serialization and Traceability:** Stay ahead of regulatory track-and-trace requirements with PLC-controlled packaging lines that provide accurate serialization and complete traceability.

- **Temperature and Pressure Control:** Precision control of temperature and pressure parameters crucial for pharmaceutical manufacturing. Automation of sterilization processes and autoclave systems.



- **CIP (Cleaning-in-Place) Systems Automation:** PLC-controlled CIP systems for efficient and compliant cleaning. Automated cleaning sequences with documentation for validation purposes.

Why Choose Falcon Automation Technology?

- **Regulatory Expertise:** Rely on our team's deep understanding of pharmaceutical regulations, including FDA standards and GMP compliance.

- **Customized Solutions:** Tailored PLC automation solutions that meet the unique challenges and requirements of the pharmaceutical industry.

- **Quality Assurance:** Our commitment to quality assurance ensures that every process is meticulously controlled, validated, and documented.

Elevate Your Pharmaceutical Manufacturing Processes Today

Explore the unparalleled advantages of precision automation with **Falcon Automation technology**. Learn how our PLC automation services can redefine the efficiency and compliance of your pharmaceutical manufacturing. Contact us for inquiries, consultations, and a partnership that guarantees success in the ever-evolving pharmaceutical industry.



WATER TREATMENT



Welcome to Falcon Automation Technology - Your Partner in Water Treatment Automation

At **Falcon Automation Technology**, we stand at the forefront of innovation, providing cutting-edge PLC automation solutions for the water treatment industry. With a commitment to efficiency, reliability, and sustainability, we empower water treatment facilities to achieve optimal performance and meet the highest water quality standards.

Transforming Water Treatment Through Precision Automation

In the dynamic landscape of water treatment, precision is paramount. Our PLC automation services are meticulously crafted to enhance the entire water treatment process, from intake to distribution. We leverage the latest technologies to ensure your facility operates at peak efficiency, addressing the unique challenges posed by varying water sources and stringent regulatory requirements.

Our Comprehensive PLC Automation Services

1. SCADA (Supervisory Control and Data Acquisition) Systems:

- Implementation of SCADA systems for real-time monitoring and control of water treatment processes.
- Comprehensive data acquisition for efficient decision-making and process optimization.

2. PLC Programming for Treatment Processes:

- Customized PLC programming for various water treatment processes, including coagulation, flocculation, sedimentation, filtration, and disinfection.

- Logic control strategies to ensure precise and consistent treatment.

3. Remote Monitoring and Control:

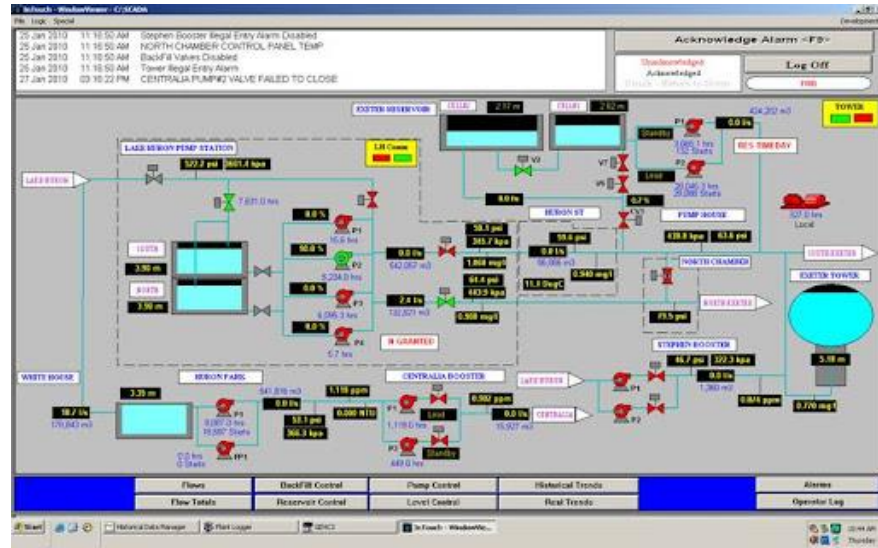
- PLC-supported remote monitoring for real-time observation and adjustments.
- Secure remote access solutions for efficient system management and issue resolution.

4. Instrumentation and Sensor Integration:

- Integration of PLCs with a variety of instrumentation and sensors for accurate measurement of water quality parameters.
- Automation of feedback loops to maintain optimal treatment conditions.

5. Pump Control and Optimization:

- Control of pumps for efficient water distribution and transport.
- Optimization of pump operations based on demand and system requirements.



6. Chemical Dosing Systems:

- PLC-controlled chemical dosing systems for accurate and controlled addition of treatment chemicals.
- Automation of chemical dosing based on real-time water quality parameters.



7. Automated Valves and Actuators:

- PLC automation of valves and actuators for precise control of water flow and distribution.
- Dynamic control to adapt to changing operational conditions.

8. Energy Efficiency Solutions:

- PLC-based strategies to optimize energy usage in water treatment plants.
- Implementation of energy-saving measures for sustainability and cost-effectiveness.

9. Data Logging and Reporting:

- Automated data logging for compliance with regulatory reporting requirements.
- Generation of reports detailing key performance indicators and system status.

10. Alarm and Alert Systems:

- PLC-controlled alarm systems for immediate response to critical events or deviations.
- Automated alert systems for proactive issue resolution and system protection.

11. HMI (Human-Machine Interface) Systems:

- Development of user-friendly HMIs for operators to monitor and control water treatment processes.
- Visual representation of treatment stages and system status.

12. Documentation and Compliance:

- Thorough documentation of PLC configurations, system architecture, and operational manuals.
- Compliance assurance with water quality standards and regulatory requirements.

Transform Your Water Treatment Processes Today

Discover the power of precision with **Falcon automation Technology**. Explore how our PLC automation services can revolutionize your water treatment facility. Contact us for inquiries, consultations, and a partnership that ensures your success in the ever-evolving water treatment industry.

BMS Automation



Welcome to Falcon Automation Technology - Innovating Building Management Through PLC Automation

At Falcon Automation Technology, we are at the forefront of redefining intelligent and sustainable building management. With a focus on precision, energy efficiency, and cutting-edge technology, we provide comprehensive Programmable Logic Controller (PLC) automation solutions that elevate the capabilities of Building Management Systems (BMS).

Transforming Building Management with Precision Automation

In the dynamic realm of modern building infrastructure, precision is the key to achieving optimal performance and sustainability. Our PLC automation services are meticulously crafted to enhance every aspect of Building Management Systems, from climate control and lighting to security and beyond, ensuring seamless operation and efficient resource utilization.

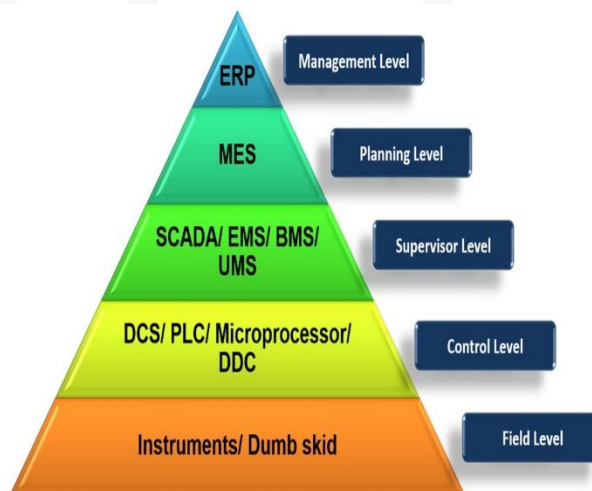
Our Advanced PLC Automation Services for BMS

- **Smart Climate Control:** Experience intelligent climate control with PLC automation, optimizing HVAC systems for comfort, energy efficiency, and environmental responsibility.

- **Energy-Efficient Lighting Solutions:**

Achieve sustainable lighting solutions with PLC-controlled systems that adapt to occupancy, daylight, and energy-saving preferences.

- **Integrated Security Systems:** Ensure the safety and security of your premises with PLC automation that seamlessly integrates security protocols, access control, and surveillance.



- **Effortless Facility Monitoring:** Leverage PLC-based SCADA systems for real-time monitoring, diagnostics, and predictive maintenance of building systems.

- **Customized Solutions for BMS:** Tailored PLC programming to meet the unique needs of your building, ensuring efficient control and adaptability to changing requirements.

Why Choose Falcon Automation Technology for BMS Automation?

- **Expertise in Building Automation:** Count on our team's extensive experience in designing and implementing PLC automation solutions for building management.
- **Energy Optimization:** Our solutions are designed with a focus on energy efficiency, helping you reduce costs and minimize environmental impact.
- **Integration Prowess:** Seamlessly integrate various building systems under one PLC-controlled platform for streamlined management and improved efficiency.
- **Scalability and Adaptability:** Benefit from scalable solutions that can adapt to the evolving needs of your building, ensuring long-term relevance and performance.

Elevate Your Building Management System Today

Explore the power of precision automation with **Falcon Automation Technology**. Discover how our PLC automation services can revolutionize the efficiency, sustainability, and intelligence of your building management system. Contact us for inquiries, consultations, and a partnership that ensures success in the ever-evolving world of building automation.

ELECTROPLATING



Welcome to Falcon Automation Technology - Redefining Electroplating Through Precision Automation

At **Falcon Automation Technology**, we are pioneers in revolutionizing electroplating processes with the power of precision. With a commitment to efficiency, quality, and cutting-edge technology, we provide advanced Programmable Logic Controller (PLC) automation solutions that elevate the capabilities of electroplating operations.

Precision Automation for Electroplating Excellence

In the intricate world of electroplating, precision is not just a necessity; it's our passion. Our PLC automation services are meticulously designed to enhance every facet of electroplating, from surface preparation to the final finish, ensuring impeccable quality, reduced waste, and increased operational efficiency.

Our Advanced PLC Automation Services for Electroplating

- **Customized PLC Programming:** Tailored PLC programs that cater to the specific requirements of electroplating processes, ensuring precise control over deposition, bath chemistry, and current density.

- **Real-time Monitoring and Control:** PLC-controlled SCADA systems provide real-time monitoring of plating parameters, allowing for immediate adjustments, predictive maintenance, and process optimization.

- **Automated Bath Management:** PLC automation streamlines the management of plating baths, ensuring consistent chemistry, temperature control, and replenishment for optimal results.

- **Energy-Efficient Plating:** Optimize energy consumption with PLC strategies that regulate power usage, reducing costs and environmental impact.

- **Quality Assurance:** Integrated PLC systems ensure quality control through automated inspections, reducing defects and enhancing the overall reliability of electroplated products.



Why Choose Falcon Automation Technology for Electroplating Automation?

- **Specialized Expertise:** Rely on our team's specialized expertise in designing PLC automation solutions tailored for the unique demands of electroplating.

- **Increased Efficiency:** Our solutions are designed to increase the efficiency of electroplating processes, resulting in reduced production time and increased output.

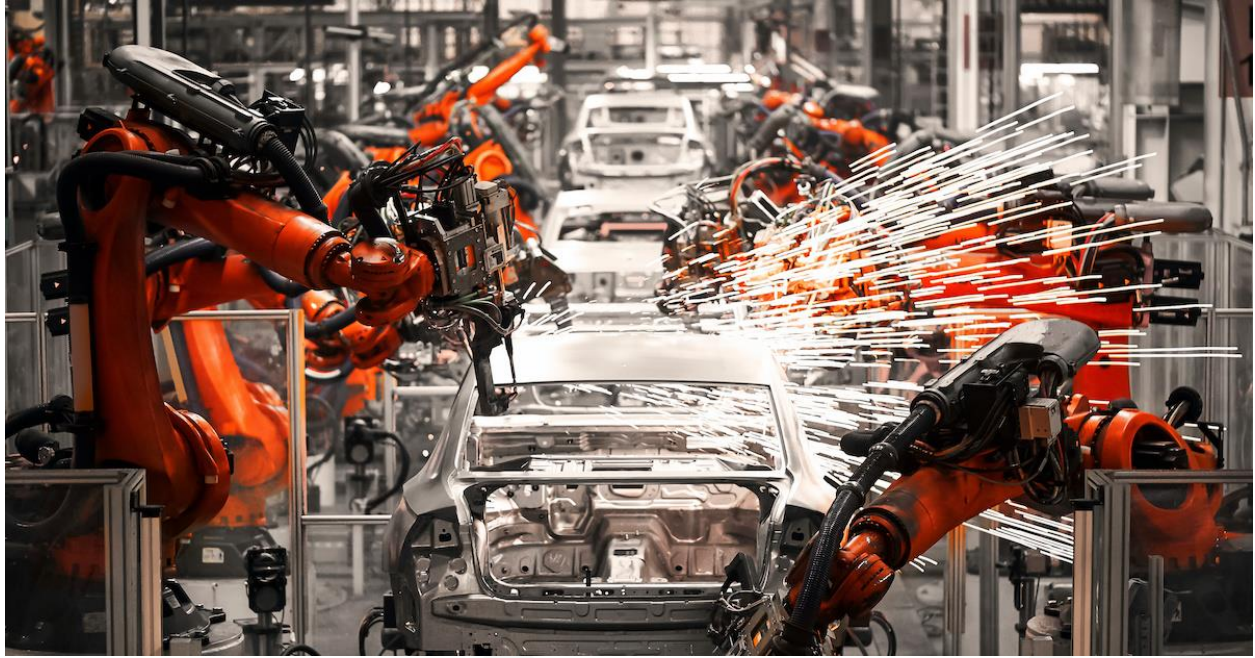
- **Waste Reduction:** Experience minimized waste and increased resource efficiency through precision-controlled plating processes.

- **Compliance with Standards:** Our automation solutions are aligned with industry standards, ensuring compliance with environmental regulations and quality benchmarks.

Elevate Your Electroplating Processes Today

Explore the power of precision automation with Falcon Automation Technology. Discover how our PLC automation services can redefine the efficiency, quality, and sustainability of your electroplating operations. Contact us for inquiries, consultations, and a partnership that ensures success in the ever-evolving world of electroplating.

AUTOMOBILE INDUSTRIES



Our PLC Automation Services in Automobile Manufacturing

At **Falcon Automation Technology**, we offer a comprehensive suite of PLC automation services specifically tailored to meet the unique demands of the automobile manufacturing sector. Our cutting-edge solutions are designed to enhance precision, efficiency, and overall productivity in every stage of the production process.

Customized PLC Programming

Our team of experts specializes in crafting bespoke PLC programs, ensuring precise control and optimization throughout the automobile manufacturing process. From assembly lines to quality control stations, our customized programming solutions are tailored to meet the specific needs of your production environment.

Robotics Integration for Seamless Automation

Experience the future of automotive manufacturing with our PLC-controlled robotics solutions. We seamlessly integrate robotics into assembly lines, enhancing speed, accuracy, and adaptability. Our robotics solutions are designed to revolutionize your manufacturing processes, from chassis assembly to intricate component handling.

Real-time Monitoring and Control

Gain unprecedented control over your production floor with our PLC-controlled SCADA systems. Real-time monitoring allows you to make data-driven decisions, optimize workflows, and respond swiftly to any deviations. Our SCADA solutions provide the visibility needed to ensure your production lines operate at peak efficiency.

Quality Assurance through Automated Inspections

Quality is paramount in the automotive industry, and our PLC automation services are geared towards ensuring excellence. Integrated PLC systems power automated inspections, reducing defects and guaranteeing the consistent high quality of your automotive products.

Energy-Efficient Manufacturing Strategies

We understand the importance of sustainability in modern manufacturing. Our PLC strategies are designed to regulate power usage and optimize energy consumption, contributing to cost reduction and environmental responsibility in the production of automobiles.

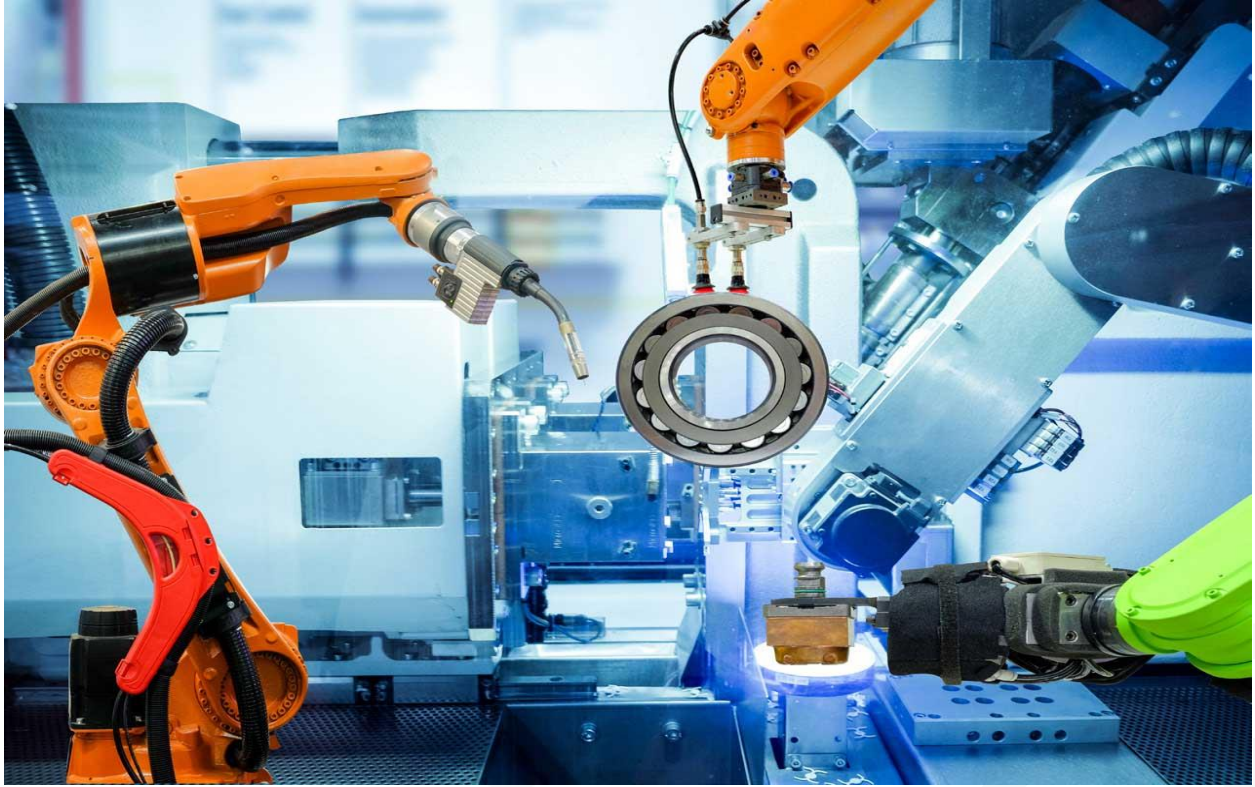
Why Choose Falcon Automation Technology?

- **Automotive Expertise:** Benefit from our team's extensive experience in delivering PLC automation solutions tailored for the automotive industry.
- **Innovative Robotics:** Embrace precision-controlled robotics that enhance the overall reliability of your manufacturing processes.
- **Quality-Centric Approach:** Our commitment to quality assurance ensures that every vehicle produced meets the highest standards of reliability, safety, and performance.
- **Efficiency Gains:** Our solutions are designed to increase the efficiency of automobile manufacturing processes, resulting in reduced production time and increased output.
- **Client Success Stories:** Explore testimonials from satisfied clients who have witnessed the transformative impact of our PLC automation services.

Elevate Your Automobile Manufacturing with Precision Automation

Discover the power of precision automation with Falcon Automation Technology. Whether you're looking to enhance control, integrate robotics, or ensure quality in your automotive production, our tailored PLC automation services are your pathway to innovation. Contact us today for inquiries, consultations, and a partnership that drives success in the ever-evolving landscape of automobile manufacturing.

SPM AUTOMATION



Our PLC Automation Services for Special Purpose Machines (SPM)

At **Falcon Automation Technology**, we specialize in providing advanced PLC automation solutions tailored to the unique requirements of Special Purpose Machines (SPM). Our expertise lies in delivering precision, efficiency, and reliability to the heart of your specialized manufacturing processes.

Customized PLC Programming for SPM

We understand that each Special Purpose Machine is unique, and our PLC programming solutions are crafted to match the distinct requirements of your SPM. Our team of experts develops customized programs that ensure optimal control and performance for your specific applications.

Seamless Integration of Robotics

Enhance the capabilities of your Special Purpose Machines with our PLC-controlled robotics solutions. We seamlessly integrate robotics to augment your SPM processes, providing increased speed, accuracy, and adaptability in manufacturing.

Real-time Monitoring and Adaptive Control

Our PLC-controlled SCADA systems empower you with real-time monitoring and adaptive control functionalities. Monitor the vital parameters of your SPM processes in real time, allowing for quick decision-making, predictive maintenance, and efficient resource allocation.

Quality Assurance through Automated Inspection

Quality is paramount, and our PLC automation services are geared towards maintaining the highest standards. Integrated PLC systems drive automated inspections, reducing defects and ensuring the consistent high quality of your products manufactured using Special Purpose Machines.

Energy-Efficient Strategies

Optimize energy consumption in your manufacturing processes with our PLC automation strategies. Our solutions are designed to regulate power usage, contributing to cost reduction and environmental sustainability in the operation of Special Purpose Machines.

Why Choose **Falcon Automation Technology** for SPM Automation?

- **Specialized Expertise:** Leverage our team's extensive experience in delivering PLC automation solutions tailored for Special Purpose Machines.
- **Innovative Robotics Integration:** Explore the possibilities of precision-controlled robotics that enhance the overall capabilities and efficiency of your SPM.
- **Quality-Centric Approach:** Our commitment to quality assurance ensures that every product manufactured using Special Purpose Machines meets the highest standards.
- **Efficiency Gains:** Our solutions are designed to increase the efficiency of SPM processes, resulting in reduced production time and increased output.

Elevate Your Special Purpose Machines with Precision Automation

Discover the power of precision automation with **Falcon Automation Technology**. Whether you're looking to optimize control, integrate robotics, or ensure quality in your specialized manufacturing processes, our tailored PLC automation services are your key to innovation. Contact us today for inquiries, consultations, and a partnership that drives success in the world of Special Purpose Machines.

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