

INDUSTRIAL AUTOMATION



ICS Arabia offers highly customized solutions for the manufacturing industry, ranging from existing infrastructure upgrades to new smart factory design and construction. We help clients to achieve more efficient, accurate, and safer production through automation and advanced technology integration.

Over half of all tasks in manufacturing are routine and can be fully automated, leading to over 75% operational cost savings, close to zero accidents, and increased production quality. Technology allows different breadth and width for automation, whether partial automation of selected processes, advanced Enterprise Resource Planning (ERP) system implementation, or integration of specialized advanced software, or full utilization of IoT, Cloud, and AI technology for totally self-operating plants.

Our Solutions:



PRE-AUTOMATION

- ◆ Manufacturing Concepts & Operation Simulation
- ◆ Prototype and Product Development
- ◆ Proof-of-Principle Studies
- ◆ Total Cost of Ownership Analysis
- ◆ GMP Review and Validation Planning

AUTOMATION

- ◆ Mechanical and Electrical Design
- ◆ Software Design
- ◆ Automation Technology and Equipment
- ◆ Installation and Integration
- ◆ Inspection, Testing, and Qualification
- ◆ Additive Manufacturing/3D Printing Data Acquisition

POST-AUTOMATION

- ◆ Operational Support and Efficiency Improvement
- ◆ Predictive and Preventative Maintenance
- ◆ Training
- ◆ Spare Parts
- ◆ Modifications, Upgrades and Extension

ICS Arabia Offerings

Customized Approach

Understanding that one solution does not fit all, ICS Arabia experts analyze and evaluate different automation models from strategic and operational perspectives, and ensures the highest return on investment is reached.



Facility Design-Build

ICS Arabia provides turnkey solutions for manufacturing and industrial clients. Our teams get involved at the early preconstruction stage, and plan for our client's projects, from facility design and functional buildings' requirements through budgeting, scheduling and risk mitigation, to construction management and commissioning.

Machinery and Equipment

We provide manufacturers evaluations, contract management, procurement, installation and integration, testing and commissioning of all equipment and machinery as per specifications.

Software Development and Integration

We design and build customized software based on customer specifications by creating data acquisition systems for testing and measurement, automation, computer vision (imaging), and databases. We are experienced in PLC, SCADA, MES, and ERP systems.

Maintenance and Operations

We offer hard and soft facility maintenance services, ranging from predictive maintenance, equipment and machinery maintenance, repairs and replacement, spare parts management to IT infrastructure and software application management.

Automation Benefits



Fewer Delays

Eliminate delays caused by human error or accidents by automating repetitive and routine operations



Accident Prevention

Avoid misuse or mishandling of heavy equipment, and automate lifting/loading tasks



Save on Material

Automation allows up to 20% saving on packaging material and allows to reduce production wastage



Improve Quality

Automation allows standardization and manufacturing predictability, and eliminates human error



Increased Efficiency

Automation systems can operate 24/7, they are reliable and fast that may increase production outcome by 90%



Real-Time Data

Data is received from automated machines that allow to monitor production, forecasts and schedules