

Achieving Agility in Manufacturing



Who We Are

Giza Systems is the number one systems integrator in Egypt and the Middle East providing a wide range of industry specific technology solutions in the Manufacturing, Telecom, Utilities, Oil & Gas, Real Estate and Hospitality industries.

We have been shaping the IT industry and corporate agendas since 1974. Our consultancy practice provides industry focused services that enhance value for our clients by streamlining operational and business processes.

Operating in the Middle East through our offices and group of companies, we are focused on contributing to the local and regional development with our technology solutions, commitment and outstanding customer service.

Our team of 600 professionals enables us to extend our geographic footprint delivering diverse projects and connecting us with clients in the Middle East, Africa, Europe, Latin America and Russia.

What We Do

We deliver a comprehensive scope and range of end-to-end industry specific solutions that meet customer demand for streamlining operational and business efficiencies.

Our technical capabilities, extensive experience and knowledge of the market, as well as our partnership with global leaders enable us to develop integrated solutions that can work with and build on the evolving technologies, as well as meet the dynamicity of our customers' needs.

In our pursuit to constantly enhance existing resources and create new capabilities, we drive forward the growth of our company, our customers, our people, and our communities.

Capabilities

With a steady growth in our client base all over the Middle East, we have established local and regional offices to respond to the demands of our clients, as well as leverage the company's success and proven track record in the different sectors.

Target Sectors

Working with over 1,500 satisfied customers, Giza Systems is uniquely positioned to fulfill the needs of the local and regional markets due to our diversified integration and automation solutions that fulfill the various needs of the following sectors:

- Manufacturing
- Telecommunications
- Power
- Water
- Oil and Gas
- Real Estate and Hospitality
- Transportation

Offices

- Headquarters: 5th Settlement, New Cairo, Egypt
- Local branches: Alexandria, Assiut, Ismailia
- KSA branches: Riyadh, Al-Khobar and Jeddah
- UAE branch: Dubai
- Qatar branch: Doha

Quality

Giza Systems strives to integrate quality in all its processes to ensure adherence to the best standards and practices. Giza Systems has received the ISO 9001:2008, ISO 14001:2004, and OHSAS 18001:2007.



Manufacturing

With the nature of global economy emphasizing the services sector, the manufacturing industry is facing a state of transition. Emerging markets, shifts in manufacturing processes, focus on supply chains and leaner techniques are just some of the aspects triggering this transition in the industry.

Key decision makers realize that manufacturing holds the key to long-term prosperity and well-being of an economy, as it translates into employment, investments, exports, and physical infrastructure.

To ensure a resurgence and revitalization to the industry, manufacturers must adapt the way they do business to deal with the increased competitiveness of the industry, as well as the various challenges.

By transitioning to integrated technology driven solutions, as well as building capabilities that add value to the process - while creating and managing integrated systems and networks - the manufacturing industry will be able to leverage innovation developments to advance its grounding and competitiveness.

With a fast progressing world, industrial regulations are becoming more sophisticated. Manufacturers need cutting-edge solutions that are sure to place plant processes in sync, as well as safeguard workers and cut costs.

From solutions dealing with field instruments, process control, power distribution, energy management, environmental monitoring, and communication to enterprise management, customer care, and business intelligence, Giza Systems offers a wide range of equipment and technology solutions that help industrial plants ensure consistent, reliable, and cost effective processes.

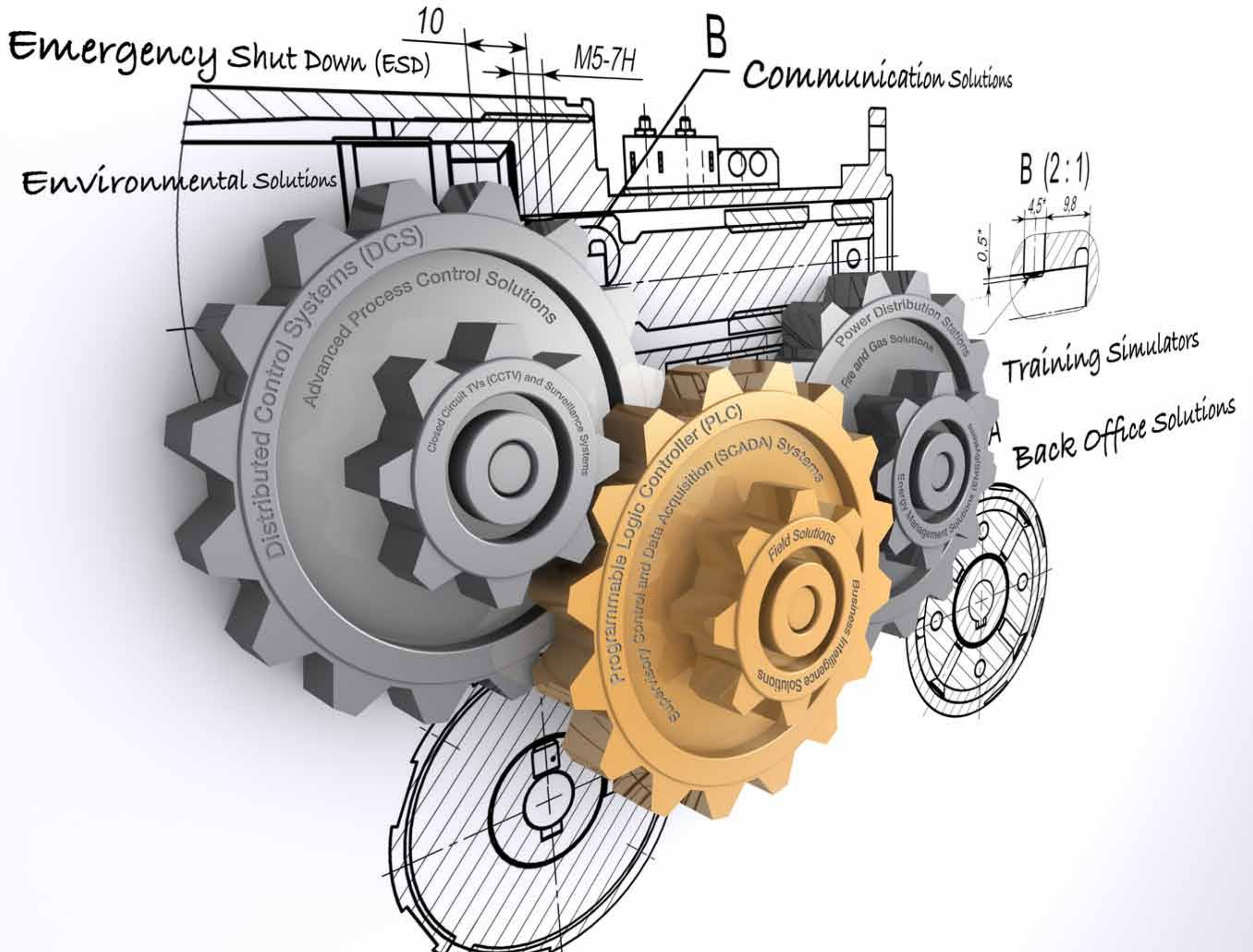
A pioneer in optimizing technology, Giza Systems presents its portfolio of advanced technological solutions specifically geared towards the manufacturing sector. With these solutions fully integrated into the manufacturer's business, our clients will be able to efficiently control and manage their operations.

A close-up, low-angle shot of a welder in a dark industrial setting. The welder is wearing a dark jacket and a protective mask. A bright, intense light from the welding process is visible, with a shower of sparks flying outwards. The background is dimly lit, showing the structure of a factory or workshop.

Our Manufacturing Industry Practice

Giza Systems offers a portfolio of advanced technological solutions that serves a wide spectrum of industries. Covering process manufacturing for a variety of industries including chemicals, food and beverage, fertilizers, and metals, our solutions are tailor-made to suit our clients' most specific needs.

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Manufacturing Offerings

Distributed Control Systems (DCS)

Distributed Control Systems (DCS) are equipped with state of the art technologies and user friendly interfaces that help plant operators manage industrial processes through the control of all process variables, while connected to advanced monitoring platforms.

Our extensive experience in DCS engineering has enabled us to specialize in developing and applying control technology to various plant areas. These areas include: chemical reactors, boilers, balance of plant (BOP), distillation columns, and tank farms to different areas in the plant.

Giza Systems is currently employing the latest cutting-edge DCS technology. Our team's in-depth knowledge of plant processes covers a complete service spectrum including project management, procurement, engineering, panel building, FAT, training, commissioning, start-up, and fine-tuning to optimize factory/plant operations.

Advanced Process Control Solutions

These solutions are expert systems configured to collect field data according to the process, and are preset to automatically interfere to solve any issues on behalf of the operator. These solutions help improve profitability by increasing throughput, reducing costs, enhancing yields, and improving product quality.

Programmable Logic Controller (PLC)

PLC technology is generally employed for some applications, which are necessary in many areas of the manufacturing plant. We also offer a wide range of services for already installed systems in plants, as well as after-sales services and support for already existing installations.

Supervisory Control and Data Acquisition (SCADA) Systems

Real-time industrial process control system used to centrally monitor and control remote or local industrial equipment. It is the system of hardware and software through which the operation team of any plant can acquire and control all the process data about the operations of the remote plants, networks, pipelines and other remote facilities. Process information acquired through SCADA systems can be integrated with different business support systems such as ERP, Asset Management, GIS, and Business Intelligence among others.

Communication Solutions

These solutions include Microwave, Radio solutions, fiber optics, as well as WiMax and GPRS. They are employed as either wired or wireless media in order to provide and relay control and monitoring information to control centers. In addition to the tremendous relevance of radio for the operation and maintenance of crews, these solutions become essential for the manufacturing industry.

When confronted with rough terrain, such as mountain-like areas, wireless communication solutions are the main resort due to the difficulty level of cabling.

Our competitive advantage in fulfilling the dual functions of IT-based and engineering services geared towards the Utilities and Telecom industries enable manufacturers to benefit from our competence and our experience in vertical integration. We enable manufacturers to meet their needs by providing them with the most advanced, cutting-edge solutions.

Field Solutions

Field solutions are essential for measuring the different parameters on-site in order to ensure accurate monitoring and control. Reporting to the central control room, these solutions include the installation of field instruments, transmitters, and sensors, as well as liquid and gas analyzers, control valves and actuators. The aim is to monitor and measure all ongoing plant process variables so that the information can be transmitted to the control center.

Our instrumentation teams are experts in programming, installing and testing instruments, as well as integrating them with new and existing automation systems installed to control process parameters. To offer the best and most suitable solutions to meet the needs of our clients, Giza Systems has partnered with a broad range of leading manufacturers covering a wide range of field solutions.



Environmental Solutions

Environmental analysis is the use of analytical chemistry and other techniques to study the environment. The purpose of this is to monitor and study levels of pollutant gases such as SO₂, CO and NO_x in the atmosphere, rivers and other specific settings.

To measure the impact of the power plant emissions on the surrounding environment, a number of measuring analyzers are arranged onto a panel and placed in a protected location in the power plant. This analysis is performed both before and after the operation of the power plant. It is usually carried out within a time frame of six months.

We rely on high end analyzers in handling all the required tasks for such projects, including systems integration, maintenance, and engineering. Sophisticated pollution monitoring systems are delivered to the customers to maintain a cleaner, safer, and healthier environment.

Fire and Gas Solutions

Giza Systems provides intelligent fire and gas alarm systems, networks and components to serve in both safe and hazardous areas. These solutions carefully monitor the emission of gas and oil/gas leaks. They are equipped with gas and smoke detectors, as well as flame sensors – among others – to control the environment for optimum safety. They are granted high safety certifications, and are implemented by certified engineers.

Emergency Shut-Down (ESD) Systems

In the event of a critical alarm (fire, high pressure, leak, etc.), Emergency Shutdown (ESD) Systems process a specific routine to control the situation, which is identified beforehand based on the client's needs.

Power Distribution Stations

Our power distribution stations offerings include Distribution Management Systems, which cover high, medium, and low voltage networks including MCC's, substation automation, and switch gears.

Energy Management Solutions (EMS)

SCADA is utilized to monitor and control all substations, as well as entire high voltage networks. Regional Control Centers or the National Control Center are built and equipped with EMS to manage national electricity grids. The use and applicability of SCADA on a variety of scales covers the management of energy on factory, platform, and grid levels.

Giza Systems has the capabilities and in-depth knowledge to fulfill EMS needs for all the different levels based on our core understanding of the significance of operational efficiency and integrity, as well as the necessary reliability measures, for the implementation of such projects.





IP Camera Surveillance Systems

Giza Systems provides IP Camera Systems with a diverse range of industrial specifications to include the prevention against fire damage, liquids erosion, and exploitation or tampering. In addition, our site security systems also include fencing intrusion detection security systems and advanced access control up to the sector and cabinet level to serve different industries, which can be employed in a variety of environmental conditions.

Business Intelligence Solutions

Knowledge management efforts focus on organizational objectives such as improved performance, customer satisfaction, quality of service, cash flow and other performance metrics. Business Intelligence technologies provide historical, current, and predictive views of business operations. Common functions of business intelligence technologies involve reporting, online analytical processing, analytics, data mining, business performance management, and predictive analytics. The purpose of business intelligence solutions is to support better business decision-making through the transformation of raw data into meaningful and useful information. Such information is imperative to enable organizations attain more effective, strategic, tactical, and operational insights, as well as make informed decisions.

Training Simulators

These are tailor-made models that simulate the plant and its relevant possible situations, measuring and analyzing the reaction of the plant to operator actions and orders.

Back Office Solutions

These solutions include billing solutions, ERP, GIS, historian systems, business intelligence solutions among other applications. We also provide required processing and storage platforms in addition to information networks infrastructure. Giza Systems has the capabilities and in-depth knowledge to fulfill clients' unique needs based on our core understanding of the significance of operational efficiency and integrity, as well as the necessary reliability measures, for the implementation of such projects.

