



Engineering

# GULF BITON ENGINEERING COMPANY



Industrial Solution &  
Constructions Support

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# About Us

Welcome to **GULF BITON ENGINEERING COMPANY**

**GULF BITON ENGINEERING COMPANY** is a leading provider of innovative engineering solutions based in the Kingdom of Saudi Arabia.

We specialize in design services, project management, general contracting, fabrication, BIM for construction, IT solutions, and manpower supply. Our expertise spans various engineering fields, including civil, electrical, mechanical, HVAC, ducting, and fire fighting.

We offer high-grade products that meet ISO and IP standards, including control panels, metering skids, control valves, and modular equipment. Our services also include sustainable landscape design, printing and advertising solutions, and comprehensive manpower supply for technical and non-technical roles.

With a commitment to quality, precision, and customer satisfaction, **GULF BITON ENGINEERING COMPANY** is your trusted partner for engineering excellence.



Visit us at [www.gbiton.com](http://www.gbiton.com) to learn more!

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# Associate Partner & brand



Autometers Energitec Limited

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[www.rotoenergy.com](http://www.rotoenergy.com)



[www.aeconstech.com](http://www.aeconstech.com)

## Represent Brands

FESTO

ABB

ROSEMOUNT

EMERSON  
Process Management

GEMÜ

EATON

SICK

Sensor Intelligence.

SIEMENS

Schneider  
Electric



Endress+Hauser

## Our Clients



مرفق  
waraq



نابكو الوطنية  
napco national  
Consumer Products



ميدال للكابلات  
Midal Cables



FPI  
FUTURE PIPE INDUSTRIES

EASTERNPAK  
Corrugated Packaging



شركة مصنع البتال للصناعات الكيماوية  
AL BATTAL FACTORY FOR CHEMICAL INDUSTRIES COMPANY

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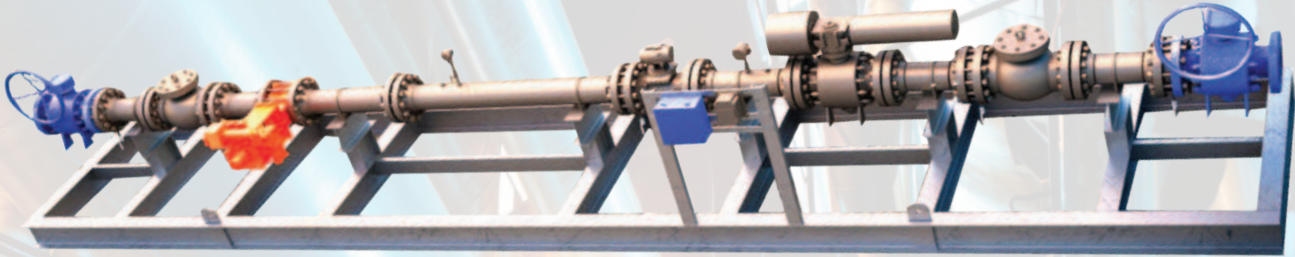
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# Metering Skid



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A Metering skid is an essential hybrid mechanical-electronic system designed to precisely measure and control liquid transfers, especially in industries handling hydrocarbons such as fuels and liquefied gases.



## Key Advantages of Metering Skids in Custody Transfer Operations

Metering skids offer significant advantages for liquid transfer applications where accuracy, safety, and control are critical.

### The benefits include:

**Enhanced Process Control** : Operators can monitor key parameters, modify operations in real time, and respond to system interlocks, improving safety and efficiency.

**High Measurement Accuracy** : Accurate and repeatable measurements reduce errors, leading to significant cost savings by recording the exact volume or mass of transferred liquids & Gas.

**Integration and Automation** : The batch controller allows seamless integration with SCADA or TAS systems for remote monitoring and control, as well as data reporting for fiscal requirements.

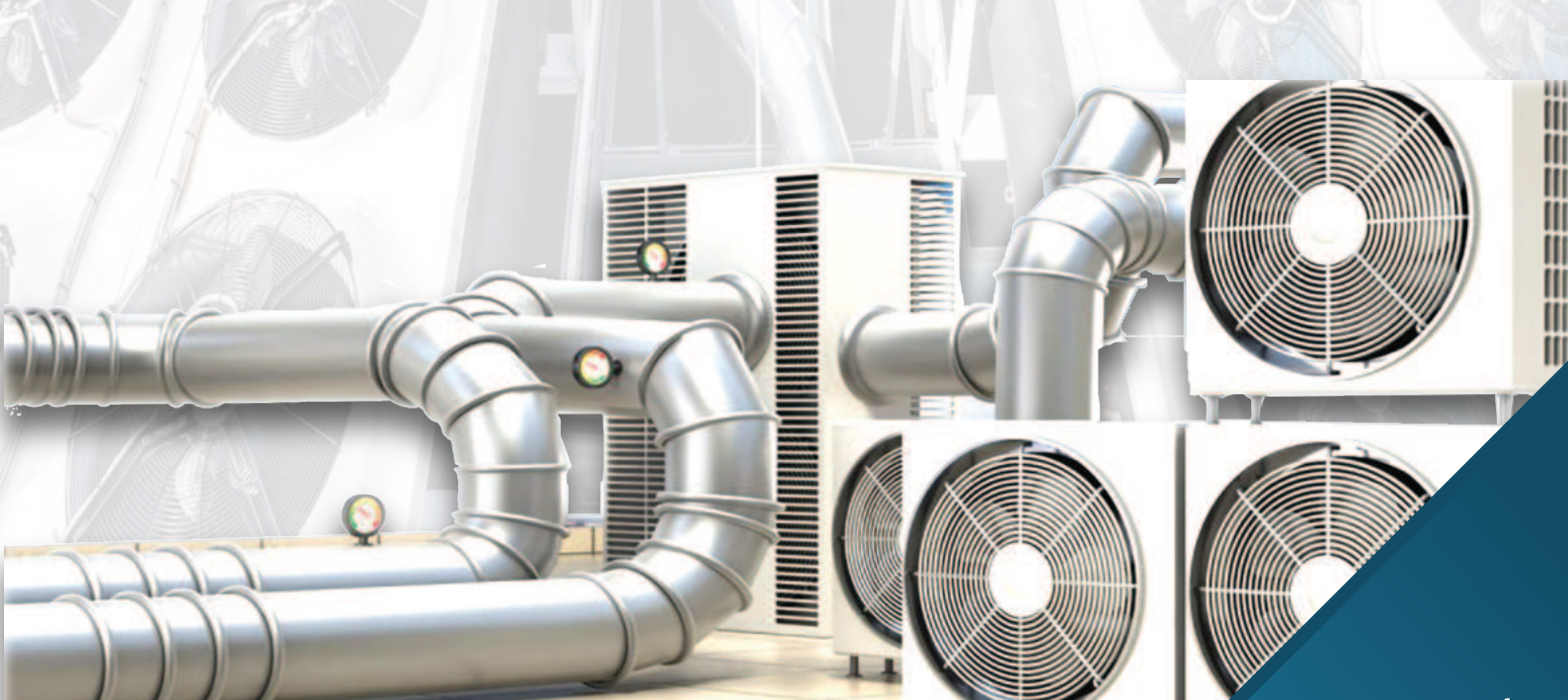
**Versatile Inputs and Outputs** : The system supports a wide range of digital and analog inputs/outputs, allowing for flexible configurations and customization.



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# HVAC

*HVAC stands for heating, ventilation, and air conditioning. Your home's systems use advanced technologies to regulate temperature, humidity, and indoor air quality in residential, commercial, and industrial buildings. The HVAC basics encompass the furnace, the air conditioner, and the ductwork that connects them throughout your home.*





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# Control Valve

*A control valve is a power-operated device used to regulate or manipulate the flow of fluids, such as gas, oil, water, and steam.*



# Control Valve



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<b>BALL VALVE</b>	ELECTRIC ACTUATOR / PNEUNATIC ACTUATOR / MANUAL
<b>BODY</b> : 1PC/2PC/3PC, SS304(CF8), SS316(CF8M), SS316L, CLASS150 ~ 900, ANSI, API, ISO	
<b>THREADED TYPE</b>	1/2" ~ 18"
<b>FLANGED TYPE</b>	1/2" ~ 20"
<b>BUTTERFLY VALVE</b>	ELECTRIC ACTUATOR / PNEUNATIC ACTUATOR / WARM GEAR OR MANUAL
<b>DISC</b> : SS316 (CF8M) / 304(CF8), PN 0.6Mpa ~ PN 1.6Mpa, CLASS 150, ANSI, API, DIN , FACE TO FACE, ISO5752	
<b>SEAT</b> : NBR / EPDM / PTFE ( Temperature 130°C ~ 225°C )	
<b>BODY</b> : SS316 / CAST IRON ( with epoxy Powder Coated )	
<b>WAFER TYPE</b>	2" ~ 12"
<b>LUG TYPE</b>	2" ~ 48"

*Electrical control panel and metal sheet mounted inside the enclosure that provides durable, corrosion-resistant enclosures with appropriate IP ( Ingress Protection ) rating IP65 for dust/water resistance, structural support for DIN rail mounting and wiring ducts. DIN metal rails feature standardized ( like UL, IEC ) dimensions and provide a mounting structure for electrical devices. Assembly neat, organized Wiring & good heat management (ventilation/cooling) ducts provide for the while also assisting in the control of electrical noise between devices inside the box.*

*Performance Metrics: High Short Circuit Withstand Capacity(SCWC) & stable voltage/current handling.*

## Electrical Control Panel

*Eight types of electrical components exist within an used electrical panel enclosure which define and organize the several different functions carried out by the panel. These components include:*

- 1) *Main circuit breaker*
- 2) *Surge arresters.*
- 3) *Transformers*
- 4) *Terminal blocks*
- 5) *Programmable Logic Controller (PLC).*
- 6) *Relays and contactors.*
- 7) *Network switches.*
- 8) *Human Machine Interface (HMI).*





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# Electrical Control Panel

## All You Need to Know

*In its simplest terms, an electrical control panel is a combination of electrical devices which use electrical power to control the various mechanical functions of industrial equipment or machinery. An electrical control panel includes two main categories: panel structure and electrical components.*



## Enclosures

*The Enclosure is a metal box which varies in size and is typically made of stainless steel with high tensile & anti-corrosion. The number of doors (usually one or two) needed on the enclosure determines its size in most industrial applications.*

*The enclosure will come with a UL safety rating (SDBA is typical) an IP rating, and/or a NEMA classification. These listings help users determine properties such as:*

*Indoor/outdoor use*

*Waterproof/water resistance*

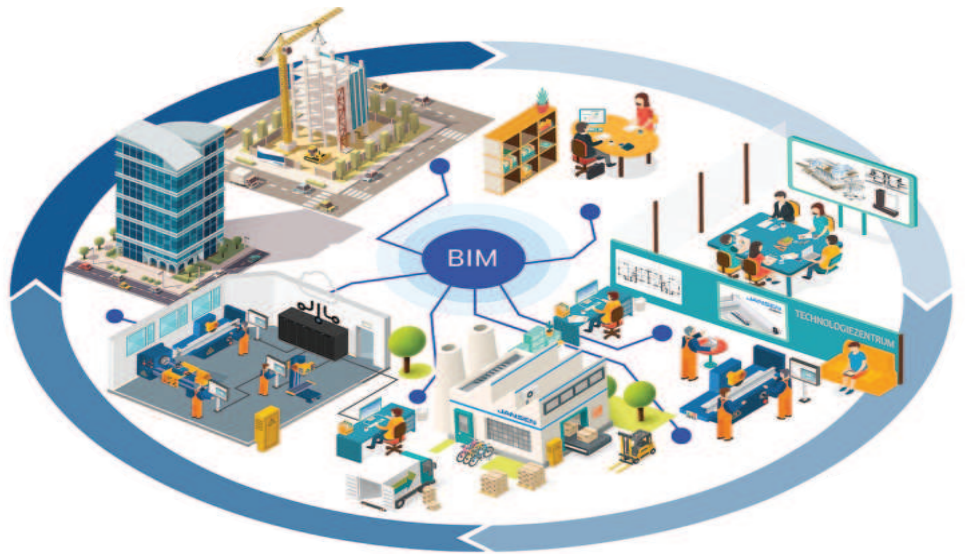
*Dust/solid contaminants proofing*

*Hazardous conditions rating*

*Explosion-proof rating*



*The BIM process allows engineers to make more informed design decisions at every step of a project's lifecycle. It is foundational to digitally transforming firms to meet industry demands. BIM gives engineers the ability to optimize workflows, improve operational efficiency, and reduce project risk to successfully deliver projects on time.*



## **MEP engineering solutions for an evolving industry**

*MEP engineers are under more pressure than ever to design and deliver building systems that balance performance, cost, and constructability. With BIM, design teams more effectively, design more sustainably, and raise the bar for industry excellence to keep their teams and firms one step ahead.*





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# BIM

*Building information management (BIM) is used to showcase prototypes and digital designs of buildings, locations and their functional characteristics. To provide a comprehensive view of a building's life cycle, BIM employs advanced technologies such as 3D to 5D modelling, data analytics and collaboration tools. It is through this process that potential design flaws can be visualised before they consume engineering and construction resources.*

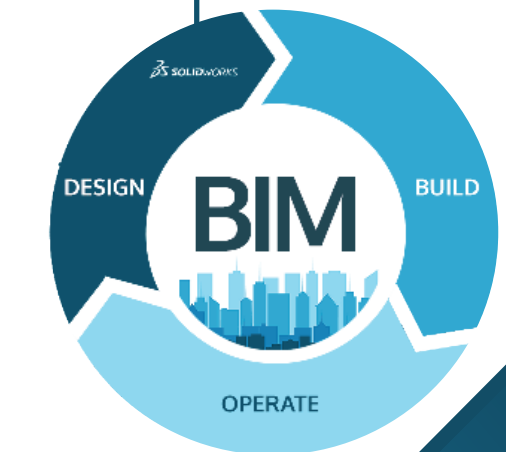
## BIM needs for every sector

### Architecture

*Explore ideas using modeling tools that help you examine your designs in the highest level of detail possible. From daylight to airflow analysis, our building information modeling (BIM) suite opens the door to more innovative and effective design outcomes.*

### Structural engineering

*Structural design and engineering professionals use BIM to design, detail, document, and fabricate structural systems. BIM enables collaboration across the project team –helping to optimize designs, improve accuracy, and connect design to fabrication to deliver projects faster and more efficiently.*





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# Fabrication

Managing your industrial fabrication project from concept to implementation.

**GULF BITON ENGINEERING COMPANY** experienced fabrication team provides industrial operators with turnkey modular equipment.

**GULF BITON ENGINEERING COMPANY** is a single source for engineering, procurement, fabricating, and automation and control services. From concept and testing to startup and commissioning, we bring deep experience, leading manufacturing technology, UL and ASME certification, and a commitment to project success to your industrial operations.



Achieve control over cost + schedule with modular solutions by **GULF BITON ENGINEERING COMPANY** Designed by experienced engineers and grounded in technology, our process modules are constructed and tested at Saudi Arabia & as well as India. We can be shipped anywhere for installation and startup by our craft technicians. From custom to standard engineered designs, we deliver value added modular solutions for processing and treatment equipment, production equipment, pressure vessels, renewable energy systems, and carbon capture systems.



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# IT Solution & Camera

Explore our top-rated service desk software, featuring customizable tools and a user-friendly interface designed to meet your IT needs. Effortlessly track IT requests, manage change requests, monitor assets and incidents, handle release management, camera security and generate personalized service desk reports with graphical representations. Powered with ITSM best practices, our robust solutions empower your team to enhance operational efficiency and improve client satisfaction.



## IT Solution

Choose the flexibility that fits your business with both self-hosted and cloud deployment options. Our self-hosted service desk software gives you complete control, security, and customization on your own infrastructure, while the cloud-based version ensures quick setup, automatic updates, and accessibility from anywhere. Whether you need full data sovereignty or the agility of the cloud, we've got you covered.



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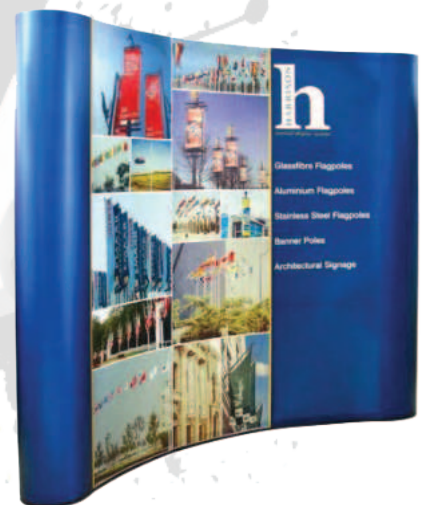
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# Printing & Advertising



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*GULF BITON ENGINEERING COMPANY also provides you advertising and printing services which can help you in promoting your company and industries like INVOICE, FLEX, BANNER, STAMP, ROLLUP, PROJECT BANNERS, ADVERTISING HOLDINGS etc.*





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# Landscape

## Commercial Landscapes:



**Purpose:** Designed to complement businesses and organizations, enhancing their aesthetic appeal and functionality.

**Features:** Include parking lots, signage, hardscaping (pathways, patios), green spaces, and water features.

**Focus:** Prioritizes branding, customer experience, and creating a professional and welcoming environment.

**Design:** Tailored to align with the architectural style and business needs of the organization.

In summary, public landscapes focus on community and recreation, while commercial landscapes are designed to support business operations and enhance the customer experience.



# Landscape



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*Public landscapes and commercial landscapes differ in their purpose, design, and target audience:*



## Public Landscapes:

**Purpose:** Designed for the enjoyment and benefit of the general public.

**Features:** Include parks, playgrounds, botanical gardens, walking trails, and open recreational spaces.

**Focus:** Emphasizes community engagement, environmental sustainability, and accessibility for all.

**Design:** Often incorporates natural elements, open spaces, and areas for relaxation, leisure, and social interaction.



# Manpower Supply



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The Manpower supply service provides a wide range of professionals, including:

## Engineers

Technicians  
Helpers

Supervisors  
Drivers

Foremen  
Painters

Skilled laborers  
Cleaners

These professionals are available across various disciplines, such as:

## Civil

Electrical  
Mechanical  
Environmental

Electronics & Communications  
Automobile  
Safety

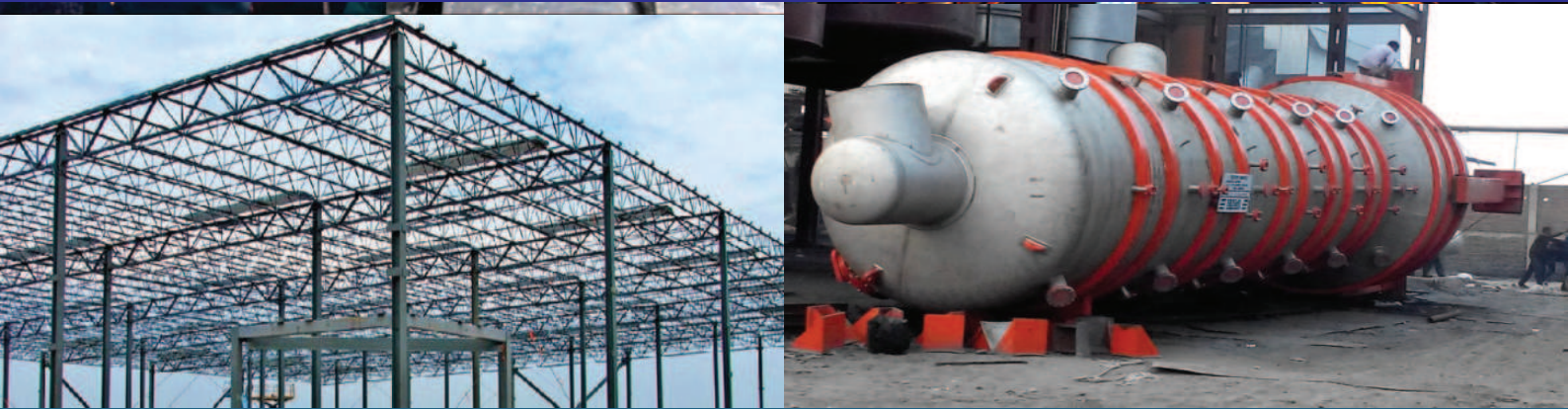
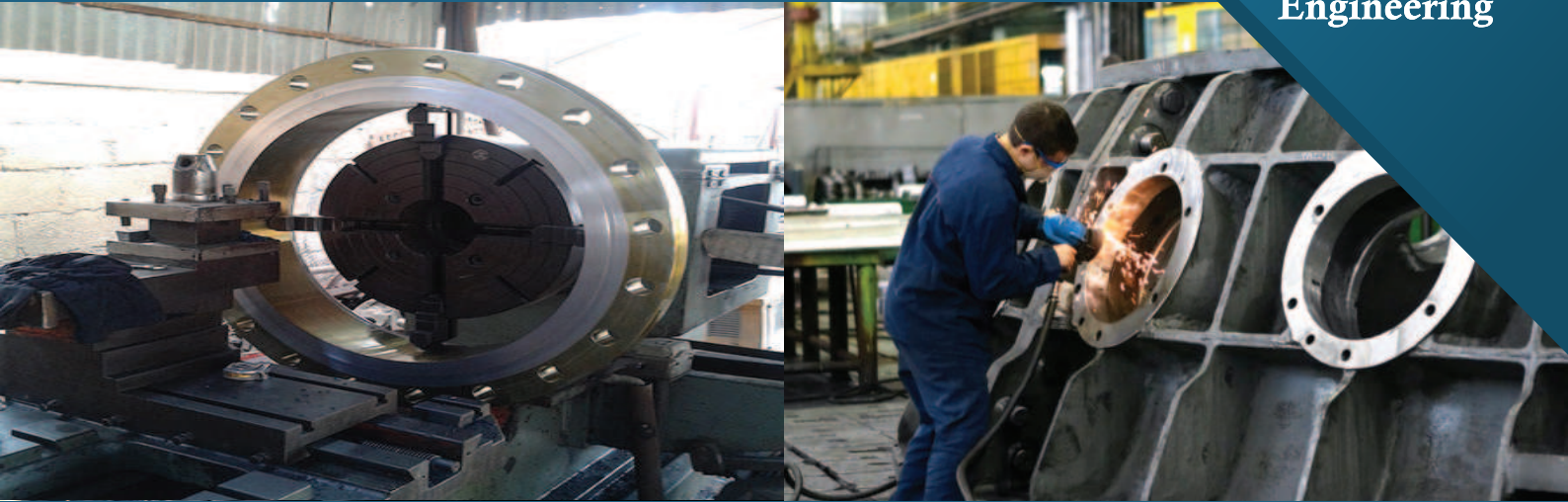
Instrumentation  
Electro-Mechanical  
Logistics



# Fabrication Works



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