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ايبيوك  
EPOCH

# THE VALUES THAT DEFINE US

At Epoch, our core values drive excellence and inspire trust. Integrity, built on honesty and transparency, guides every decision, ensuring we do what's right, not what's easy. With innovation and progress at the forefront, we leverage cutting-edge technologies to deliver tailored automation solutions that redefine industry standards.

Our customer-focused approach prioritizes understanding your needs to craft solutions that overcome challenges and deliver exceptional value. Dependability defines us, ensuring precision, quality, and on-time delivery. More than a provider, we are your trusted partner, committed to lasting relationships and a smarter, more efficient future.



# WHAT EPOCH INTERNATIONAL STANDS FOR



INTEGRITY



INNOVATION



CLIENT-CENTRIC



RELIABILITY

# EPOCH Application Sectors



OIL AND GAS



METALS



FOOD AND BEVERAGES



CONSTRUCTION



CEMENT



PLASTIC



MANUFACTURING



CNC MACHINE



PHARMA



MARINE AUTOMATION



CRANE



PACKAGING



TUNNELING



CABLE INDUSTRY

# Leading the Way in Industrial Excellence

As a member of the Hedge Group, Epoch International excels in trading, manufacturing, and service solutions. Our trading division sources high-quality products and spare parts from leading European and U.S. manufacturers, including electrical equipment, hazardous area tools, instrumentation, safety gear, and industrial spares.

Partnering with premium global brands, we ensure access to top-tier products. For hard-to-find or urgent parts, we provide reliable and timely delivery, supporting critical maintenance and project needs with a commitment to quality and customer satisfaction.



SIEMENS



Schneider Electric



CONTROL TECHNIQUES



YASKAWA



Honeywell BECKHOFF

# PRODUCT CATEGORIES & SERVICES

A quick glance at the technologies and solutions that drive industrial efficiency. From precision hardware to advanced system integration, Epoch International offers comprehensive automation support tailored for modern industries.



# SERVICING & PROGRAMMING

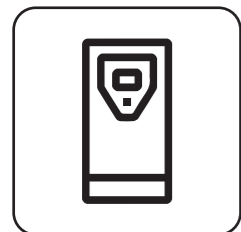
Our technical team provides full-cycle automation services including setup, integration, and maintenance. Whether it's a new installation or retrofitting existing systems, our programming services deliver precision control and operational continuity.

We specialize in PLC, HMI, VFD, and industrial communication programming, along with advanced support for motion systems, SCADA integration, and IIoT environments.

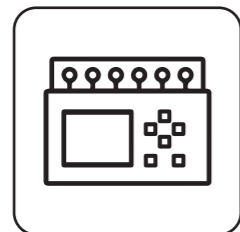


# PRODUCT CATEGORIES

Industrial-grade components sourced from trusted global manufacturers – engineered for performance, reliability, and seamless integration into diverse applications.



Variable Frequency Drives (VFDs)



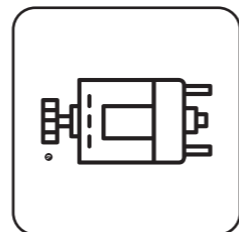
Programmable Logic Controllers (PLCs)



Human Machine Interfaces (HMIs)



Sensors and Encoders



Motion Control and Servo Motors



Circuit Protection Devices

We ensure quality-tested products with expert consultation to match application needs, maximizing both efficiency and safety.

# EXPLORE MORE WITH AUTOMIE

AutomationItems.com is your go-to platform to explore a wide range of products from major global brands and easily send quote requests for the items you need.

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

Simplifying Industrial Product Selection and Sourcing



# VARIABLE FREQUENCY DRIVES

Variable Frequency Drives (VFDs) are advanced devices used to control the speed and torque of electric motors by varying input power frequency and voltage. They play a critical role in enhancing energy efficiency, reducing operational costs, and improving process control across industries. By optimizing motor performance, VFDs minimize wear and tear, extend equipment lifespan, and prevent issues like overheating and overload. Additionally, they contribute to sustainability efforts by lowering energy consumption and supporting environmentally friendly industrial operations.

## APPLICATION



**PUMPS AND COMPRESSORS**  
Optimize flow and pressure.



**HVAC SYSTEMS**  
Control airflow and temperature.



**INDUSTRIAL FANS AND BLOWERS**  
Match airflow to demand.



**CONVEYORS AND MATERIAL HANDLING**  
Adjust speed for precise material movement.

And more...



## KEY BENEFITS

### ENERGY EFFICIENCY

Reduce energy consumption significantly

### PRECISE SPEED CONTROL

Achieve exact speed requirements for various processes

### IMPROVED MOTOR PERFORMANCE

Extend motor life and reduce maintenance costs

### SOFT STARTS & STOPS

Minimize mechanical stress on equipment

### TORQUE CONTROL

Maintain consistent torque across a wide speed range

### REGENERATIVE BRAKING

Recover energy during deceleration

### REGENERATIVE BRAKING

Recover energy during deceleration





# PROGRAMMABLE LOGIC CONTROLLERS (PLCs)

Programmable Logic Controllers (PLCs) are highly versatile and reliable devices used to automate, monitor, and control industrial processes with precision and efficiency. They are essential for optimizing operations, improving productivity, and ensuring seamless integration across a wide range of applications. With their ability to handle complex tasks, adapt to varying system requirements, and deliver robust performance, PLCs are a cornerstone of modern industrial automation, enabling businesses to achieve higher efficiency, reduce downtime, and maintain operational excellence.

## WHERE IT MAKES A DIFFERENCE

- MANUFACTURING**  
Automating production lines and ensuring process control.
- MATERIAL HANDLING**  
Conveyor system management and motor control.
- PACKAGING**  
Precision in machine movements for filling, labeling, and sealing.
- ENERGY AND UTILITIES**  
Power generation, distribution control, and monitoring.
- ROBOTICS**  
Controlling robotic movements in assembly lines.



## WHAT SETS IT APART







- ENHANCED PRODUCTIVITY**  
Automates repetitive tasks, reducing human intervention.
- COST-EFFICIENCY**  
Optimizes resource usage and minimizes downtime.
- FLEXIBILITY**  
Easy to program and adapt to changing operational needs.
- IMPROVED SAFETY**  
Reduces risks by handling complex tasks automatically.
- ENERGY SAVINGS**  
Intelligent control ensures efficient energy consumption.



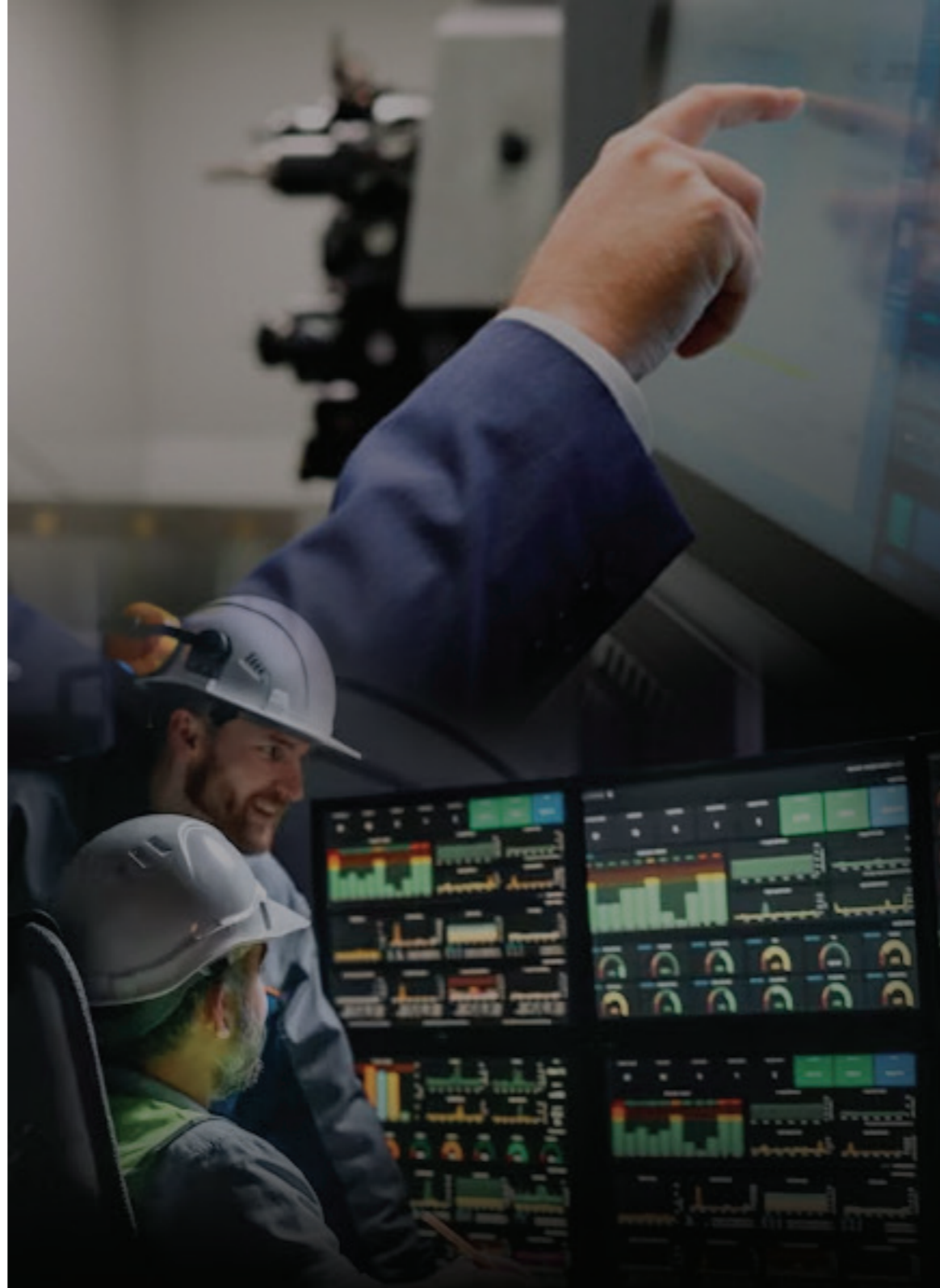
# HUMAN MACHINE INTERFACE (HMI)

Human Machine Interfaces (HMIs) serve as the bridge between users and machines, offering visual displays, touch control, and real-time data interaction. They're essential for improving productivity, reducing operational errors, and enhancing system responsiveness in various environments:

## WHERE HMIS MAKE AN IMPACT

-  MANUFACTURING PLANTS
-  VEHICLES
-  MEDICAL EQUIPMENT
-  SMART DEVICES
-  AIRCRAFT & DEFENSE SYSTEMS
-  POWER SYSTEMS

HMIs can be as simple as a touchscreen panel or as advanced as a multi-layered interface with gesture, voice, or AI integration – offering scalable solutions across both simple and complex use cases.



# WHAT MAKES IT WORK

### IMPROVED USER EXPERIENCE

Intuitive interfaces make complex systems easier to control and monitor.

### INCREASED EFFICIENCY

Streamlined processes and quick access to data enhance productivity.

### BETTER DECISION-MAKING

Real-time data visualization helps users make informed decisions.



### ENHANCED SAFETY

HMIs allow for quick alerts, system monitoring, and control, reducing risks in hazardous environments.



### CUSTOMIZATION

User-friendly interfaces can be tailored to specific needs or preferences.



### REMOTE ACCESS

Many HMIs support remote operation and monitoring, providing flexibility and convenience.



### REDUCED TRAINING TIME

Intuitive interfaces reduce the learning curve for new users.



# SENSORS AND ENCODERS

HMI's enable seamless interaction between users and machines across industries. Applications include industrial automation, automotive dashboards, medical devices, smart home systems, gaming, transportation, and more. They simplify processes, enhance user experience, and improve efficiency.

## APPLICATION



### MANUFACTURING

Ensures accurate positioning of robotic arms, conveyors, and assembly lines.



### MATERIAL HANDLING

Monitors speed and position of AGVs (Automated Guided Vehicles) in warehouses.



### AUTOMOTIVE

Tracks movement in robotic welding, painting, and assembly lines.



### PACKAGING

Provides position feedback for filling, sealing, and labeling machines.



### PROCESS CONTROL

Measures pressure, flow, and temperature in chemical, pharmaceutical, and food industries.



## KEY BENEFITS

### ENHANCED ACCURACY

Enables precise control of automated processes, improving efficiency.



### IMPROVED SAFETY

Monitors critical parameters to avoid hazardous conditions and system failure.



### REDUCED DOWNTIME

Continuous monitoring and diagnostics prevent unexpected equipment breakdowns.



### OPTIMIZED PERFORMANCE

Measures pressure, flow, and temperature in chemical, pharmaceutical, and food industries.



# MOTION CONTROL AND SERVO MOTORS

Motion control systems regulate the movement of machinery and equipment in automated processes. These systems control the speed, position, and acceleration of actuators (such as motors or servos) through feedback loops, ensuring high precision and accuracy.

## WHERE IT'S NEEDED

ROBOTICS

CNC MACHINES

CONVEYOR SYSTEMS

3D PRINTING

PACKAGING



## WHERE IT EXCELS

### ENHANCED ACCURACY

Provides precise and repeatable movements for complex tasks.

### INCREASED PRODUCTIVITY

Efficient motion control leads to faster cycle times and reduced waste.

### IMPROVED SAFETY

Detects abnormal motion or faults, preventing machine damage and ensuring operator safety.

### COST EFFICIENCY

Reduces maintenance costs by ensuring optimal performance of equipment.











# CIRCUIT PROTECTION

Circuit protection refers to the use of devices like fuses, circuit breakers, and surge protectors to prevent electrical circuits from damage caused by overloads, short circuits, or power surges. It ensures the safety, reliability, and longevity of electrical systems and equipment by controlling and limiting the flow of current.

## APPLICATION

-  **ELECTRICAL SYSTEMS**  
Protects wiring from overloads and faults.
-  **AUTOMOTIVE**  
Safeguards car electronics and wiring
-  **RENEWABLE ENERGY**  
Protects solar systems and inverters.
-  **INDUSTRIAL MACHINERY**  
Prevents damage to motors and equipment.
-  **CONSUMER ELECTRONICS**  
Ensures device safety.
-  **TELECOMMUNICATIONS**  
Protects communication equipment.



## KEY BENEFITS

- SAFETY**  
Prevents electrical fires, shocks, and equipment damage.
- RELIABILITY**  
Ensures consistent operation of electrical systems.
- COST SAVINGS**  
Reduces repair costs and downtime by protecting equipment.
- PREVENTS OVERLOAD**  
Protects circuits from overloads and short circuits.
- LONGEVITY**  
Increases the lifespan of electrical devices and systems.



# SERVICING AND PROGRAMMING

Servicing includes maintenance, troubleshooting, and repairs to keep systems running smoothly. Programming involves configuring software to control machinery and automate processes, improving performance and efficiency. Together, they ensure reliability and extend equipment lifespan.



INTEGRITY



INNOVATION



CLIENT-CENTRIC



RELIABILITY

## PLC PROGRAMMING

Delivering intelligent and efficient PLC solutions for seamless automation.

## MOTION CONTROL

Optimizing motion systems for accuracy, reliability, and performance.

## VFD & DRIVE PROGRAMMING

Enhancing motor control with customized VFD and drive configurations.

## EMBEDDED & MICROCONTROLLER PROGRAMMING

Developing specialized firmware for industrial devices and automation.

## HMI PROGRAMMING

Designing user-friendly interfaces for smooth human-machine interaction.



## INDUSTRIAL IOT & EDGE COMPUTING

Integrating smart connectivity for data-driven industrial automation.

## SCADA SYSTEMS

Developing advanced SCADA systems for real-time monitoring and control.

## ROBOTICS PROGRAMMING

Implementing cutting-edge robotic automation for precision and efficiency.

## SAFETY SYSTEM PROGRAMMING

Implementing secure and compliant automation for workplace safety.

## INDUSTRIAL COMMUNICATION & NETWORKING

Ensuring seamless data flow with robust industrial networking solutions.



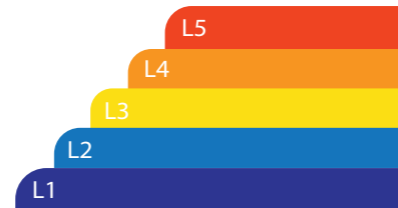
# COMPREHENSIVE SERVICES TAILORED FOR SUCCESS

Empowering your success with comprehensive, tailor-made services designed to meet your unique needs.

## Machine Installation, Commissioning and Testing

Epoch International is a one stop solution to carry out your industrial machinery installation, commissioning and testing.

- L1 - Inspection and Sizing
- L2 - Supply
- L3 - Installation
- L4 - Commissioning
- L5 - Testing



## Drives Repair



Variable Frequency Drives



Variable Speed Drive



Soft Starters



AC/DC Inverters

## PLC & HMI Repair

- Fixed PLC
- Compact PLC
- Modular PLC
- Integrated PLC
- Small, Medium and Large PLC

## Biomedical Equipment Repair

- Single Layer PCB
- Ultra Sound Systems
- Electrocardiographs
- Electrosurgical Units
- Defibrillators
- All kinds of scanners including MRI scanners
- All kinds of Biomedical & Dental Electronic Equipment


## PCB Repair

- Single Layer PCB
- Double Layer PCB
- Multi-Layer PCB
- High Frequency PCB
- High Density Interconnect (HDI) PCB


## I/O Cards, Controllers and Industrial Board Repair

- Programmable Logic Controllers (PLCs)
- Intelligent Electronic Devices (IEDs)
- Supervisory Control and Data Acquisition (SCADA)
- Programmable Automation Controllers (PACs)
- Human-Machine Interface (HMI)
- Industrial Automation and Control Systems (IACS)
- Remote Terminal Units (RTUs)


## CNC Machine Repair




Controller Repair




PCB Repair



HMI Repair



Remote Repair



Sensors And Feedback Systems Repair

## Flame Scanner, Gas Detector and Ignitor Repair

- Electrochemical/Infrared/Photoionization Gas Sensors
- Ultraviolet/Infrared (UV/IR)
- Multi-spectrum infrared (MSIR)
- Visual flame imaging
- And all kinds of Sensors and Detectors

## Power Supply Repair



Linear



Switched



Battery-based

## Servo Drives/ Motors / Encoders Repair

- AC Servo Drives
- DC Servo Drives
- Encoders



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