



MOTION CONTROL ENGINEERING SERVICES

Process automation solutions



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What We Do

Motion Control Engineering Services is an engineering company specialized in Instrumentation and Control, Process Automation, Industrial Repairs, Project design and implementation, and Industrial supplies in a wide variety of industries. Through continuous professional development and research and innovation, we combine our multi-disciplinary engineering expertise with professionalism to carry out high level project execution on Technical services. We go above and beyond on every project to provide customized solutions that are client-centric and deliver on our promises with integrity.

Quality Assurance

We take pride in our best service delivery and excellence in a diverse range of markets. Our qualified teams are driven by the breadth and in-depth knowledge and extensive experience in the industry to provide excellent services that meet regulatory requirements and quality standards.

We consistently source products that will serve to increase productivity with the latest technology without compromising on quality, while being timely and reliable.

Safety Assurance

We take part in supporting all aspects of safety case development and risk assessment including coordination, planning, preparation, and technical support. We ensure that our safety-first policy go hand in hand with our technical expertise when working in confined spaces, work at height, hazardous and toxic areas, and high and low voltages.

ABOUT US



Corporate Strategy

Motion Control Engineering Services is a customer centric company with a clear Vision and Mission statement, and strict corporate values.



Vision

To become a leading Process and Automation Engineering company in Eastern Africa regarding work procedures, technology and competences of its human resources.



Mission

To provide quality services in engineering and technical solutions that meet our clients' needs in an innovative, cost effective, and professional manner; by utilizing our common values, skills, and business objectives to satisfy our clients.



ABOUT US



Core Values

We advocate for a work environment that challenges one to make decisions that contribute to client satisfaction, firm performance, and individual growth.

Empowerment
& Continuous
Growth.

Trust & Mutual
Respect.

We believe that everyone embraces the value and principles of the firm in doing what is best for the client and the business; while treating everyone with respect and dignity.

Teamwork.

We champion for collective responsibility by recognizing the exceptionalism of team effort over individual effort.

Core Values

Risk Taking.

Urgency &
Commitment.

We recognize time as a competitive advantage; hence we commit to deliver what we promise our clients timely.

We acknowledge that complexities and challenges are inevitable, yet we are ready to take on informed and calculated risks in service delivery.

Client
Satisfactory.

We take pride in knowing that our services meet the needs of our clients fully.

OUR TEAM

Our Team

Our team consists of experts from different crafts in the engineering field, which allows us to combine innovative engineering skills and accountable project management to get every job done right.

Our solutions are based on:

- Globally recognized standards.
- Our unique know-how methods.
- Hands-on skills gained from working with different industries and applications.
- Client requirements

Our solutions include:

- Technical consultation.
- Customized services.
- Post-service follow-up procedures.
- Customer support.



Our technical expertise includes areas of:

- Instrumentation and Process Control.
- SCADA design, upgrade, implementation, and licensing.
- Process improvement and Machine retrofitting.
- PLC, HMI, & VFD programming, hardware and software configuration.
- Single to multi axes servo drive programming and configuration.
- Pneumatic and hydraulic systems.
- Pumps, valves, actuators, transducers, sensors, and other electromechanical components.

SCOPE OF OUR PRODUCTS & SERVICES

Instrumentation and Process Control

We provide comprehensive services around design and planning within this field. We understand process control variables and the instruments in use within a production or manufacturing area for the better utilization of technology and hardware components. Our team is equipped with the technical knowledge and skills of a wide range of instruments used in wide range of applications such as:

- Level and pressure
- Flow measurements
- Temperature and Recorders.
- Liquid analysis – conductivity, pH, Dissolved O2, and Optical measurements.



SCADA Systems.

We provide you with accurate and real-time monitoring of automated processes in your industry through the design, implementation, and licensing of SCADA systems which provides you with the ease and safety of monitoring and controlling your industrial assets away from the potential risks and hazards in the field.

Our SCADA system design factors in all the field devices and measuring instruments necessary for parameter monitoring, then implement it in a way that lets you communicate with these devices and make suitable changes when needed, and eventually provide you with the necessary software licenses for operation.



SCOPE OF OUR PRODUCTS & SERVICES

Process Improvement.

We acknowledge the possibility of high costs of purchasing a new machine that uses the latest technology when the current manual machine is still functional.

Our company provides you with an alternative solution to upgrade your existing machines to the desired operation at a friendlier cost through processes like machine retrofitting.

Our process improvement procedure entails:

- Identifying the objective of the improvement, such as minimizing waste or increasing production.
- Analyzing the existing work flow by understanding the production process.
- Providing modernized solutions to the production process, by using controllers, speed drives, and HMIs.
- Eliminate any inefficiencies in the process.
- Provide training for the operators on how to use the upgraded machinery.
- Maintenance of the upgraded machinery.



SCOPE OF OUR PRODUCTS & SERVICES

Process Automation.

At Motion Control Engineering we provide support for a wide range of hardware and software used in various automation applications. Our specialization involves:

- The use of PLCs, HMIs, and VFDs to synchronize the production process by programming to suit the desired outcome through hardware and software configuration.
- Installation of systems including hazardous area control systems, SCADA systems, DCS and IPC systems, fire and gas monitoring systems and safety modules.
- Communication networks installation and configuration which entails Profibus, Profinet, Serial Interface, Modbus TCP/IP, Hart, ASI, Device net, CAN, CClink.



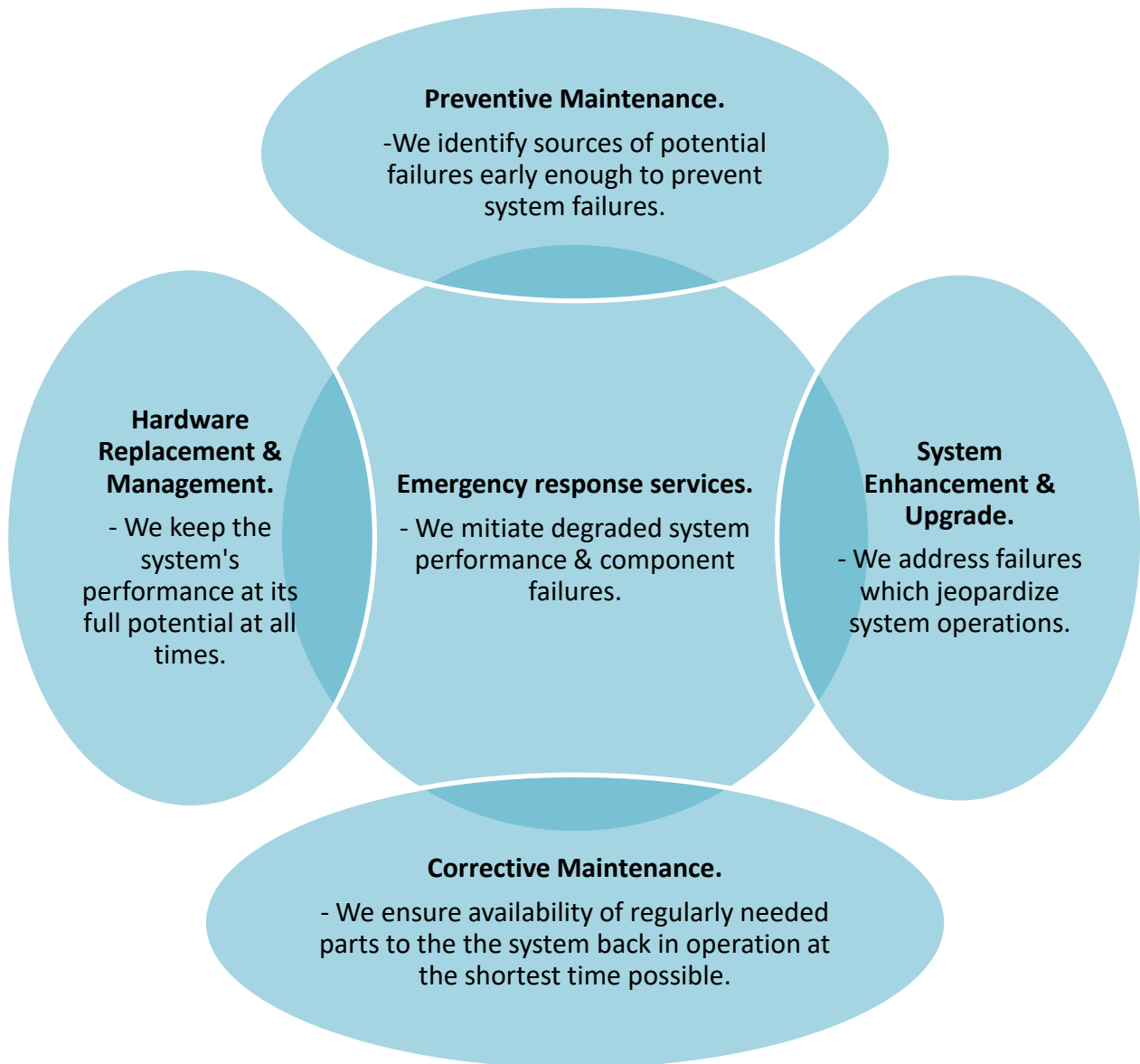
Installation, Commissioning, and Maintenance.

Our dedicated teams in civil works, mechanical, electrical, and automation fields, ensure that your new production lines and machines are installed, tested, and commissioned to meet the operational requirements as per the OEM standards.

We also ensure that our clients' machine breakdowns are promptly attended to by our very able field service team restoring your operations to reduce your downtime within the shortest time possible.



SCOPE OF OUR PRODUCTS & SERVICES



SCOPE OF OUR PRODUCTS & SERVICES

Pneumatic & Electropneumatic Systems.

We offer you the best services when it comes to installation and maintenance of your air driven systems including valves, actuators, pneumatic pumps, and other mechanical components.

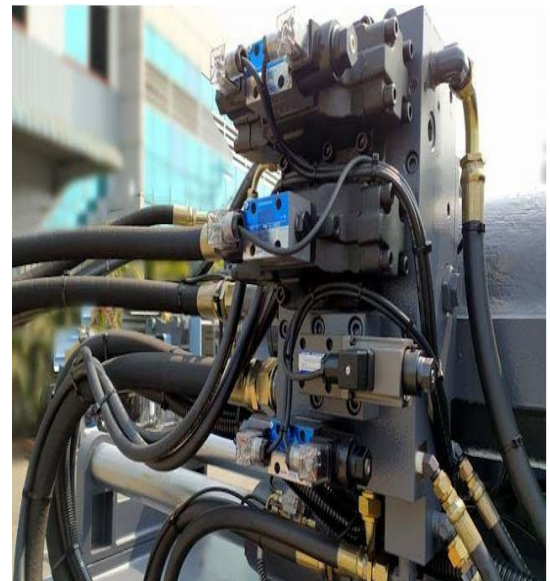
We integrate any of these systems with programmable logic controllers to allow the implementation of more advanced control strategies using the approach of electropneumatic or electrohydraulic systems.



Hydraulic & Electrohydraulic Systems.

For your bulk hoist applications, blow molding, injection molding, and other heavy lifting systems, we are well-versed with new and old installations, automating the existing systems, and maintenance for efficient performance.

Our mechanical team together with the electrical team combine their efforts to deliver as per the client's specifications.



SCOPE OF OUR PRODUCTS & SERVICES

Industrial Repairs

Our company is fitted with a well-equipped state of the art diagnosis systems, enabling us to work on obsolete and modern SMD PCB boards to the component level test.

The industrial repairs we deal with include:

- Programmable logic controllers (PLCs)
- Human machine interface (HMI) and their backlights.
- Variable speed drives
- Industrial computers (IPCs)
- Instruments – lab equipment, field devices
- Other electronic control boards.



Industrial Motion Control

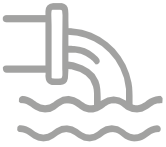
Machine motion control has never been easy for the industrial applications. Our team is well trained to handle any type of drives and industrial motors such as induction motors, DC motors, servo motors, stepper motors, non-rotary linear motors and actuators. Our skilled team have the vast knowledge on the applications of servo systems, both single axis and multi-axes for:

- Computer Numerical Control (CNC)
- Robotic systems
- Converting
- Handling
- Forming
- Packaging
- Pressure



SCOPE OF OUR PRODUCTS & SERVICES

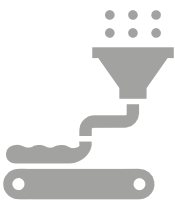
Applications



Water & wastewater

Our experienced team uses standard industrial equipment to provide our clients with a range of solutions for water and wastewater applications such as:

- Measurements, regulation and control within water distribution network, including zoning
- Process regulation and control including pump control and speed regulation.
- Remote monitoring and control of reservoirs
- Automation of wells and other water sources, and pump stations.
- Reverse Osmosis and water treatment automation.
- SCADA system design and implementation



Food & Beverage Industry

- Meat and fish products.
- Edible oils
- Dairy and dairy derivatives.
- Alcoholic & non-alcoholic beverages.
- Confectionery
- Agro-processing; salt, sugar, tea & coffee.
- Grain processors.



SCOPE OF OUR PRODUCTS & SERVICES



Building automation

Our services apply to the building automation sector through the use of standard industrial equipment for the control, integration, and central monitoring of new or existing systems. These systems include:

- Boiler controller
- Chillers and cold-room controller
- Security alarm control unit
- Fire & gas alarm control system
- Access control system
- Other subsystems



Other Industries

We also provide automation solutions in other industries such as:

- Power generation and distribution plants.
- Energy, Oil & Gas, and Petroleum sector.
- Chemical & allied industry
- Metal & allied industry
- Automotive sector
- Plastic & rubber industry
- Pharmaceuticals
- Building, mining, and construction industry
- Automobile industry
- Paper, textile & leather industry.



OUR BRANDS



SIEMENS
Ingenuity for life

Pro-face
by Schneider Electric

KEB

 **MITSUBISHI
ELECTRIC**
FACTORY AUTOMATION

**SEW
EURODRIVE**

**Rockwell
Automation**
 **Allen-Bradley**

Lenze

YASKAWA

YOKOGAWA 

Schneider
Electric

 **DELTA**

OMRON

kuax

BECKHOFF

ADVANTECH

Enabling an Intelligent Planet

OUR CLIENTS





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