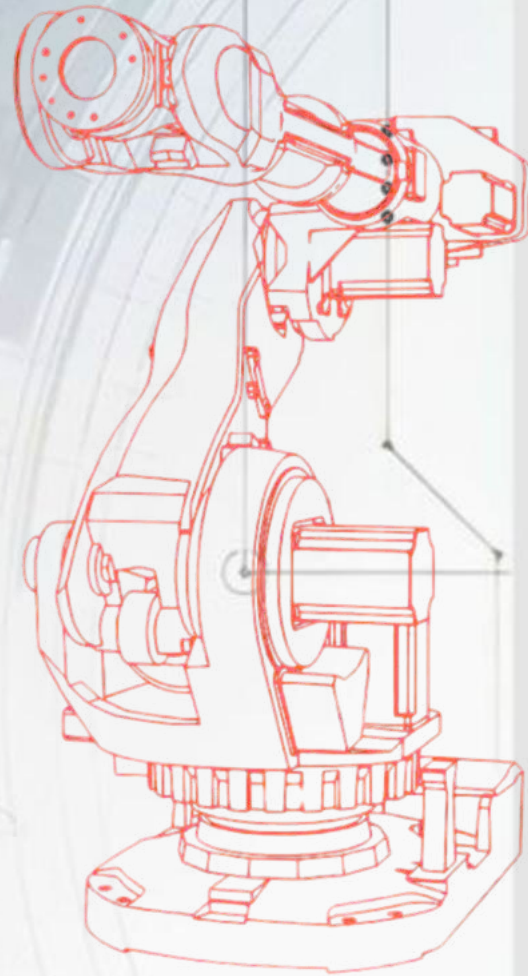




COMPANY PROFILE

RoboMecs Est.

Elevating Industrial Automation

About — us

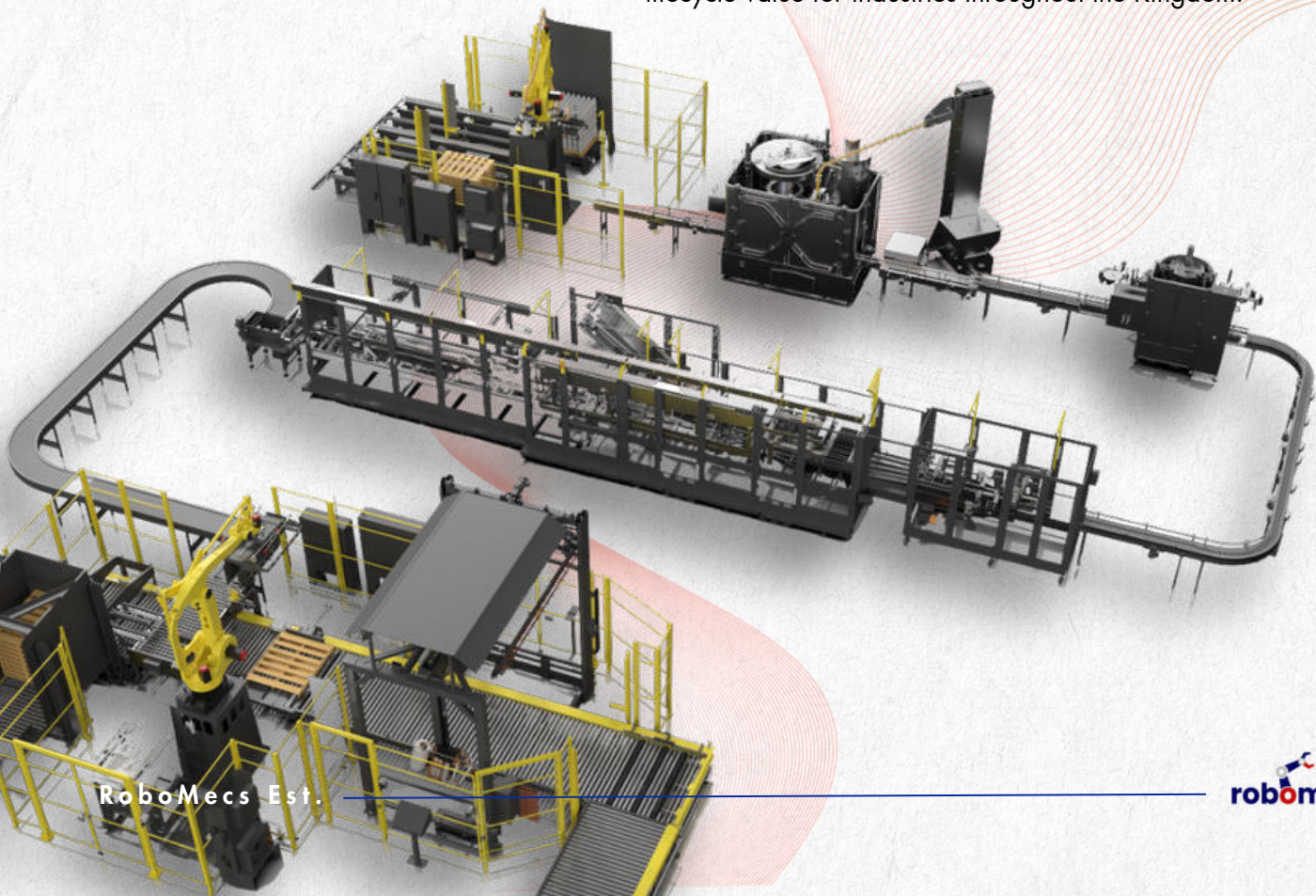
**AUTOMATING
TODAY,
ADVANCING
TOMORROW.**

RoboMecs Est. empowers Saudi industries with engineered automation and robotics solutions designed to increase uptime, boost throughput, and accelerate digital transformation.

RoboMecs Est. is a Saudi-based industrial automation and robotics integration company specializing in engineered turnkey solutions that elevate production reliability, performance, and digital readiness.

With a comprehensive portfolio covering packaging systems, end-of-line automation, material handling, control systems, fabrication, and industrial digitalization, we enable manufacturers across the Food & Beverage, FMCG, Pharmaceutical, Chemical, Logistics, and broader industrial sectors to achieve higher uptime and maximize throughput.

Backed by local engineering expertise and global standards, our mission is to deliver innovative, future-ready systems that enhance safety, efficiency, and lifecycle value for industries throughout the Kingdom.



Our Vision

To be Saudi Arabia's most trusted and innovative provider of robotics and industrial automation solutions, driving the Kingdom's transformation toward intelligent, efficient, and future-ready manufacturing.

Our Mission

To accelerate industrial transformation through intelligent robotics, scalable automation, and digital integration that unlocks smarter, safer, and more productive manufacturing environments.

END TO END INDUSTRIAL AUTOMATION SOLUTIONS

RoboMecs Est. delivers end-to-end automation platforms engineered to enhance production uptime, improve throughput, and accelerate the Kingdom's transition toward smart manufacturing. Our capabilities cover every stage of industrial automation—from packaging lines and robotic end-of-line systems to advanced control engineering, precision fabrication, lifecycle support, and AI-driven digital solutions. Each system is designed with local service reliability and future-ready scalability, ensuring manufacturers benefit from safer, faster, and smarter industrial performance.



PACKAGING &
END-OF-LINE
SYSTEMS



AUTOMATION &
CONTROL
SYSTEMS



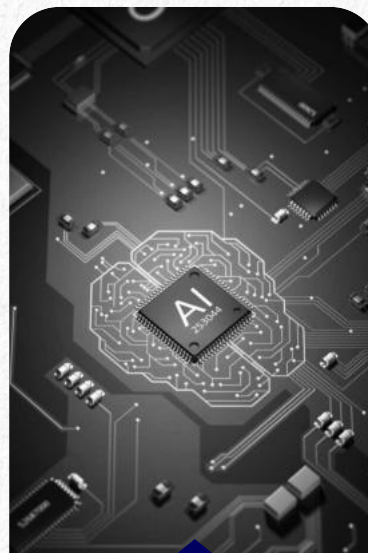
INTRALOGISTICS
SYSTEMS



ENGINEERING
DESIGN &
FABRICATION



INDUSTRIAL
SERVICES &
LIFECYCLE
SUPPORT



DIGITAL
SERVICES

PACKAGING & END-OF-LINE SYSTEMS

RoboMecs Est. delivers fully engineered packaging and end-of-line systems designed to maximize throughput, reduce manual handling, and ensure consistent product quality across high-speed production environments. Our turnkey solutions integrate robotic handling, advanced packaging machinery, smart conveying technologies, precision coding and labeling, as well as vision-based inspection systems. Each system is built to meet demanding industrial requirements, with hygiene-compliant designs, scalable automation, and seamless connectivity to plant control and digital platforms—enabling manufacturers to run safer, faster, and more reliable packaging operations.

ROBOTIC SYSTEMS

- Robotic palletizing (cartons, bags, sacks)
- Mixed-SKU palletizing
- Vision-guided depalletizing
- Carton decanting / de-boxing automation
- Collaborative palletizing/depalletizing
- Delta robotic picking for pouches & flow-packs
- SCARA top-loading for lightweight items
- Vision-guided picking for random orientation



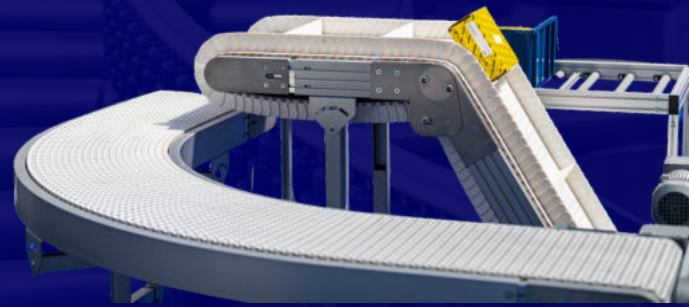
PACKAGING SYSTEMS

- Case erectors & formers
- Wrap-around case packers
- Tray formers & loaders
- Sleeve-pack modules
- Shrink-bundle packaging systems
- Case sealing systems (Tape / Hot-melt)



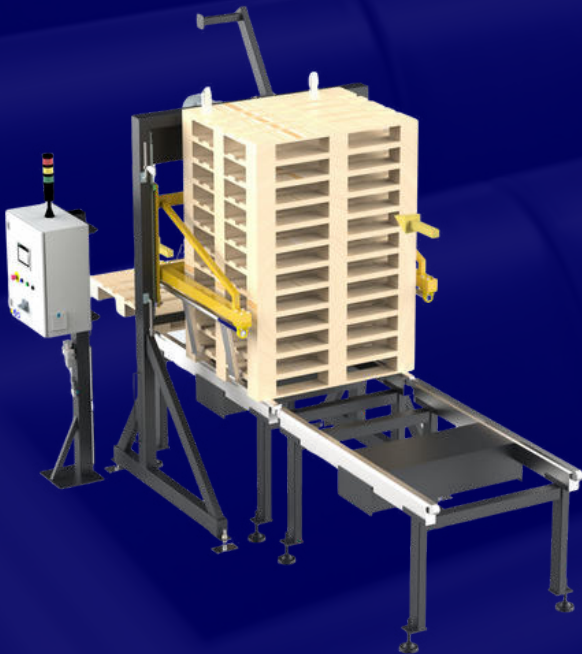
CONVEYOR SYSTEMS

- Belt conveyors (PVC, PU, incline/decline)
- Modular chain / mat-top conveyors
- Stainless-steel wash-down conveyors
- Gravity & MDR roller conveyors
- Pallet conveyors (chain / roller)
- Spiral conveyors
- Vertical elevators / lowerators
- Accumulation conveyors (zero-pressure / FIFO)



CUSTOMIZED HANDLING EQUIPMENT

- Pallet dispensers / destackers
- Pallet magazines & buffering units
- Tote stackers / destackers
- Turntables
- Lane dividers / lane merging units
- Flow-control modules (buffering, alignment, infeed/outfeed transition)



MARKING, CODING & LABELLING

- Continuous Inkjet (CIJ) printers
- Thermal Inkjet (TIJ) printers
- CO₂ & Fiber laser coders
- Automatic labelling systems (wrap-around, front/back, top/bottom)
- Print-and-apply labelling (cases, pallets, cartons, bottles)
- Serialization-ready printing & traceability



INSPECTION SYSTEMS



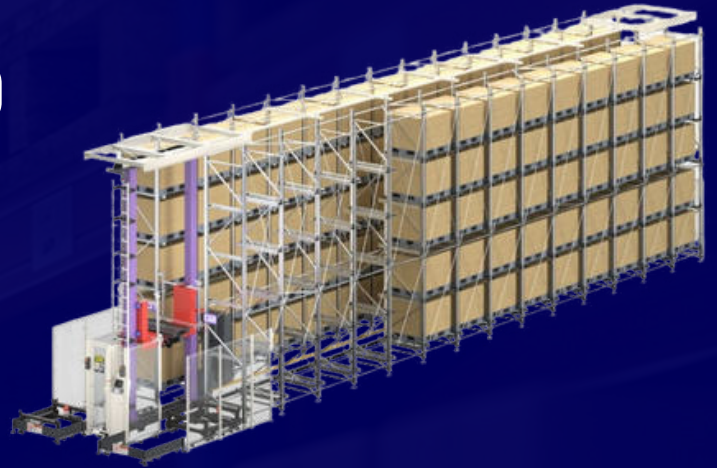
- X-Ray inspection systems
- Metal detection systems (gravity, pipeline, conveyor)
- Dynamic checkweighers
- Combination inspection units (X-ray + metal + weight)
- Vision inspection (label, cap, orientation, completeness)
- Vision-based code verification (OCR/OCV, barcode/QR)
- High-speed rejection systems

INTRALOGISTICS SYSTEMS

RoboMecs Est. delivers intelligent intralogistics solutions that optimize the internal flow of materials, products, and information within industrial facilities. Our systems integrate conveyors, automated storage, robotic handling, sorting, and smart transport technologies to increase efficiency, accuracy, and throughput across warehouses and production environments. Engineered for scalability and seamless integration with automation, control, and digital platforms, our intralogistics solutions reduce manual handling, improve space utilization, and enable faster, safer, and more reliable internal operations.

AUTOMATED STORAGE & RETRIEVAL SYSTEMS (AS/RS)

- Mini-load and shuttle AS/RS
- High-density tote/carton storage
- Pallet AS/RS for bulk warehouses
- Automated buffer storage
- WMS-integrated systems



AUTONOMOUS MOBILE ROBOTS (AMRS) & AGVS



- AMRs for tote and cart movement
- Tugger AMRs & AGVs for batch transport
- Pallet AMRs for warehouse pallet handling
- Sorting AMRs for e-commerce and parcel flows
- Fleet management & traffic control

WAREHOUSE CONVEYING & SORTATION

- High-speed sortation conveyors
- Cross-belt and shoe sorters
- Automated MDR-based zone conveyors
- Spiral vertical transport
- Diverts, merges, routing modules



INTRALOGISTICS SOFTWARE & CONTROL

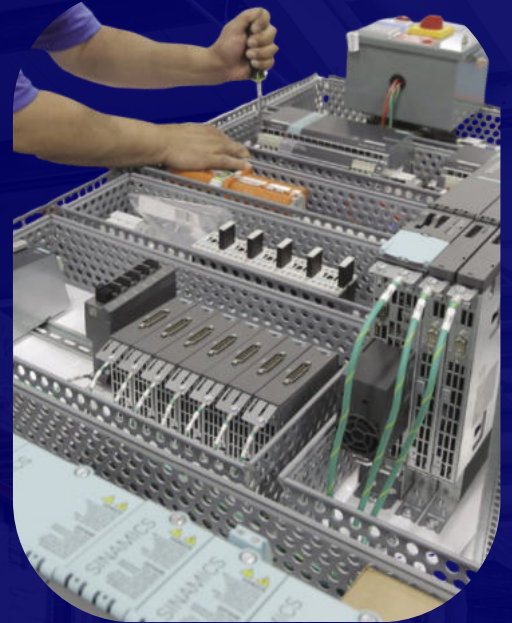
- WMS / WCS interfaces
- Inventory visibility & tracking
- Routing optimization
- Workflow automation logic

AUTOMATION & CONTROL SYSTEMS

RoboMecs Est. delivers complete industrial automation and control platforms engineered to optimize machine reliability, production safety, and real-time operational visibility. Our capabilities span PLC-based control architecture, safety-rated systems, SCADA and connectivity software, industrial drives, instrumentation, and power distribution. From hardware design to advanced control logic and secure network integration, we build scalable, standardized, and cyber-hardened systems that seamlessly interface with existing production assets, ERP/MES layers, and future digital technologies. Every solution undergoes rigorous testing, validation, and commissioning to ensure stable operation, simplified maintenance, and long-term lifecycle performance across demanding industrial environments.

CONTROL ARCHITECTURE & HARDWARE

- PLC-based automation systems (Siemens, Allen-Bradley, Omron)
- Safety PLC systems (fencing, scanners, interlocks, e-stops)
- Distributed & remote I/O architectures
- Industrial networks: Profinet, EtherNet/IP, Modbus TCP
- MCC panels & motor starter assemblies
- VFD and servo drive integration
- Field instrumentation (sensors, valves, actuators, 4–20 mA / HART loops)
- Power distribution & grounding systems



TESTING, VALIDATION & COMMISSIONING

- Functional Design Specification (FDS)
- Factory Acceptance Testing (FAT) with I/O simulation
- Site Acceptance Testing (SAT) & commissioning
- I/O verification, calibration & functional testing
- Startup, tuning & performance optimization
- Operator & maintenance staff training
- Complete project documentation package

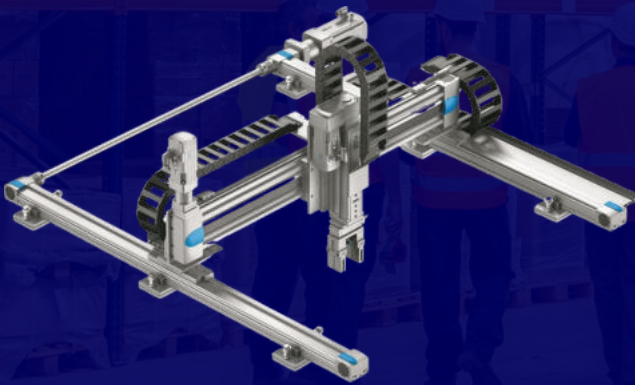


SCADA, SOFTWARE & CONNECTIVITY

- PLC programming with modular function block libraries
- HMI & SCADA development (WinCC, FactoryTalk, Ignition)
- Recipe, batching & setpoint management
- Alarm and event management
- Data logging & historian integration
- OPC-UA / MQTT industrial communications
- MES / ERP integration interfaces
- Industrial cybersecurity & network hardening



MOTION CONTROL & HIGH-PRECISION AUTOMATION



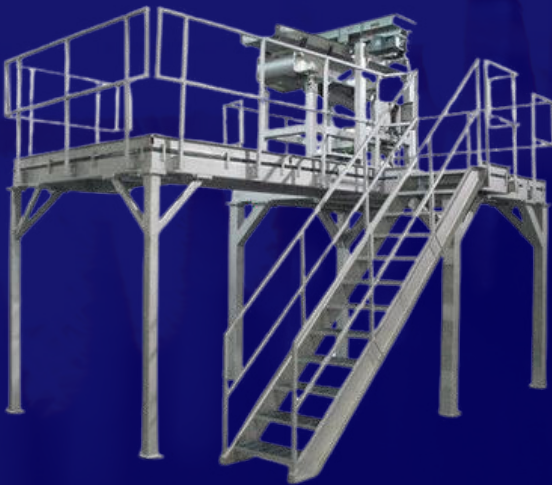
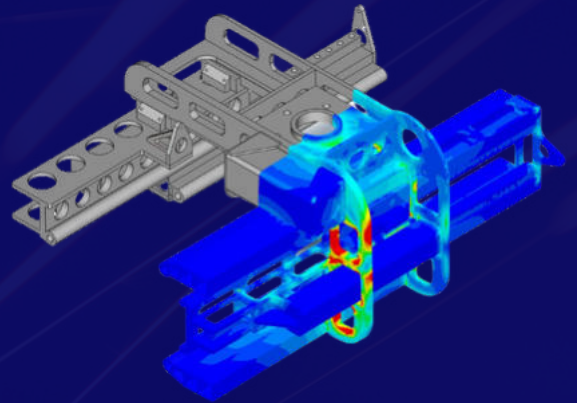
- Multi-axis servo motion systems
- High-speed pick-and-place motion profiles (non-robotic)
- Electronic camming & synchronization
- Conveyor tracking & line-shaft emulation
- Coordinated axis control (gantries, Cartesian systems)
- Real-time diagnostics & tuning

ENGINEERING DESIGN & FABRICATION

RoboMecs Est. provides precision engineering and fabrication services that transform project requirements into fully validated, manufacturable, and production-ready systems. Our engineering team combines advanced 3D modeling, robotic simulation, and structural analysis to optimize layouts, verify performance, and eliminate installation uncertainties before fabrication begins. With capabilities spanning tank manufacturing, stainless-steel platforms, structural assemblies, and complete mechanical–electrical integration, we deliver hygienic, durable, and standards-compliant equipment tailored to industrial applications. Every project is engineered for reliability, safety, ease of maintenance, and seamless compatibility with process utilities, automation hardware, and production environments.

3D DESIGN & SIMULATION

- 3D mechanical modeling of equipment, skids & layouts
- Robotic reach, cycle-time & collision simulation
- Conveyor & line flow modeling
- Digital line layout validation (interference & clearance checks)
- Virtual FAT (vFAT) before fabrication or installation



PLATFORMS & RAILS

- Stainless steel access platforms (general, tank-top, CIP/service)
- Catwalks & mezzanines
- Staircases & industrial ladders
- OSHA-compliant guardrails & handrails
- Structural frames for elevated equipment

INTEGRATION ENGINEERING

- Mechanical & electrical layout design
- Utility routing (air, power, water, data)
- Structural support & load assessments
- Mechanical/electrical assembly & alignment
- System integration & interfacing (robotics, conveyors, controls)
- FAT & SAT execution for integrated systems



PROCESS TANKS

- Mixing tanks (low-shear / high-shear)
- Blending tanks
- Jacketed tanks (heating/cooling)
- General process tanks (balance, holding, cone-bottom, vertical)
- CIP tanks
- Skid-mounted tank systems

INDUSTRIAL SERVICES & LIFECYCLE SUPPORT

RoboMecs Est. ensures long-term operational reliability through comprehensive industrial services that maintain, upgrade, and extend the lifecycle of automation, robotics, and material handling systems. Our service teams provide rapid-response technical support, preventive maintenance, system modernization, spare parts supply, and complete installation services for production facilities across Saudi Arabia. With specialized expertise in robotics calibration, control migrations, safety upgrades, and mechanical refurbishment, we help manufacturers reduce downtime, enhance system performance, and protect their investment across every phase of equipment operation. Each service is delivered by locally available field engineers backed by global engineering standards—ensuring fast support and sustained production efficiency.

TECHNICAL SUPPORT & MAINTENANCE

- Preventive and corrective maintenance for robotics, conveyors and automation systems
- Robot mastering, calibration and mechanical adjustments
- Conveyor inspection, belt/roller replacement and alignment
- Drive, gearbox and mechanical component servicing
- Electrical and control hardware maintenance (sensors, actuators, field devices)
- Rapid-response troubleshooting and remote/on-site technical support



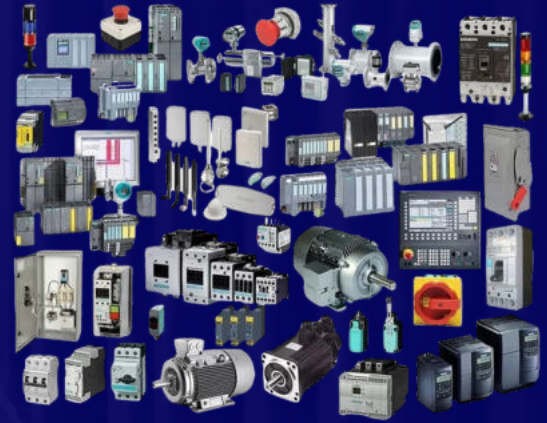
UPGRADES & MODERNIZATION

- PLC, HMI and SCADA system migrations to modern platforms
- Electrical control panel refurbishment and redesign
- VFD, servo drive and motion system upgrades
- Instrumentation and field-device modernization
- Safety system upgrades (scanners, interlocks, safety PLC)
- Mechanical enhancements to improve reliability and uptime



SPARE PARTS SUPPLY

- Electrical and control components (sensors, PLC modules, field devices)
- Motors, gearboxes, servo drives and motion components
- Conveyor spare parts (rollers, bearings, belts, chains)
- Pneumatic valves, cylinders and air-handling components
- Robotics spare parts (motors, reducers, harnesses, cables)
- Replacement parts for EOAT, grippers and mechanical tooling



INSTALLATION & DEPLOYMENT

- Mechanical installation of conveyors, robotics, platforms and equipment
- Electrical installation including power, control and field-device wiring
- Pneumatic piping and connection of air-handling components
- Equipment leveling, anchoring and alignment
- Integration of field devices with existing control infrastructure
- On-site installation supervision and handover support

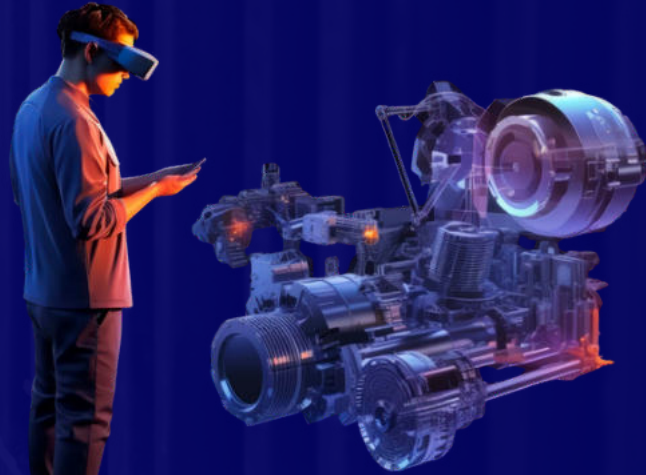


DIGITAL SERVICES

RoboMecs Est. empowers manufacturers to embrace the future of smart production through AI, IIoT, and data-driven digital solutions. Our platforms enable real-time equipment monitoring, predictive maintenance, and actionable insights across multiple production lines, reducing downtime and maximizing efficiency. From AI-driven robotics and inspection systems to machine connectivity, OEE analytics, and seamless MES/ERP integration, we deliver intelligent, scalable, and fully integrated digital solutions that enhance operational visibility, process accuracy, and long-term industrial performance.

ONSENSE AI PLATFORM

- AI-driven troubleshooting assistant for machine repair and diagnostics
- Digital conversion of manuals, electrical diagrams, and spare parts data
- Interactive component breakdowns and SOP libraries for faster repairs
- Real-time guidance for operators and technicians to reduce downtime
- Centralized knowledge base improving maintenance efficiency and consistency
- Accelerates fault diagnosis and repair through AI-assisted decision support

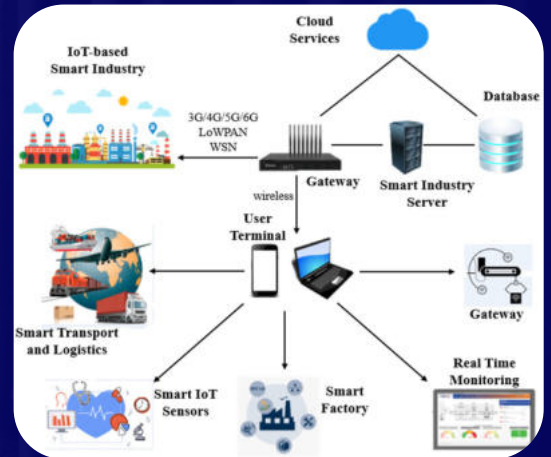


AI-BASED ROBOTICS & INSPECTION

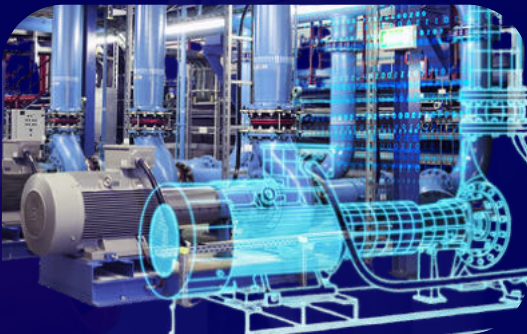
- AI robotic picking & sorting
- AI depalletizing for mixed/irregular loads
- Deep-learning defect inspection
- OCR/OCV text verification
- Label/cap/seal inspection
- High-speed completeness checks

IIOT SERVICES

- Machine & sensor connectivity
- Real-time dashboards & alarms
- OEE analytics
- Predictive maintenance insights
- Energy monitoring
- MES / ERP / cloud integration



DIGITAL TWINS



- Real-time digital twin models driven by IIoT data
- AI-based throughput and bottleneck prediction
- Predictive flow modeling for material handling and packaging lines
- Scenario simulation for layout expansion and redesign
- Capacity planning and demand forecasting
- Machine-learning models for production optimization

Our commitment To quality



CERTIFIED STANDARDS

Every product complies with international safety and quality certifications.



RELIABLE PERFORMANCE

We ensure durability and consistent protection in every item we supply.



CONTINUOUS IMPROVEMENT

Regular evaluation and innovation to meet evolving industry needs.



CUSTOMER SATISFACTION

Delivering trusted solutions that exceed client expectations every time.

Why choose Us?



END-TO-END SOLUTIONS

From design and fabrication to installation, automation, and lifecycle support, we provide fully integrated systems under one roof.



LOCAL EXPERTISE, GLOBAL STANDARDS

Jeddah-based field engineers deliver rapid on-site support while maintaining international engineering and safety standards.



FUTURE-READY TECHNOLOGY

Our systems are engineered for AI, IIoT, smart robotics, and scalable digital transformation, keeping your operations ahead of the curve.



RELIABILITY & PERFORMANCE

Preventive maintenance, modernization, and spare parts services ensure long-term uptime, efficiency, and operational excellence.



CONNECT WITH US

Connect with Us –
Drive Smarter, Safer,
Faster **Operations.**



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RoboMecs Profile



RoboMecs Projects