SEGMIC ENGINEERING

Solution Empowered by Innovations

Solutions for Fast and Accurate Warehouse Automation

Warehouse Automation with PLC based Control

As a specialist in PLC-based control, Segmic delivers advanced automation for warehouses and distribution centres. Our integrated approach combines motion control, flexible controllers and warehouse software into scalable solutions that move goods faster, more accurately and more safely.

Our solutions are designed for throughput and long-term performance, for new facilities and retrofits of existing lines. With expertise in platforms such as Siemens, Allen-Bradley, SICK, OnRobot and many more, we deliver conveyors, sortation, robotic picking, AGV integration and environmental control tailored to each operation.

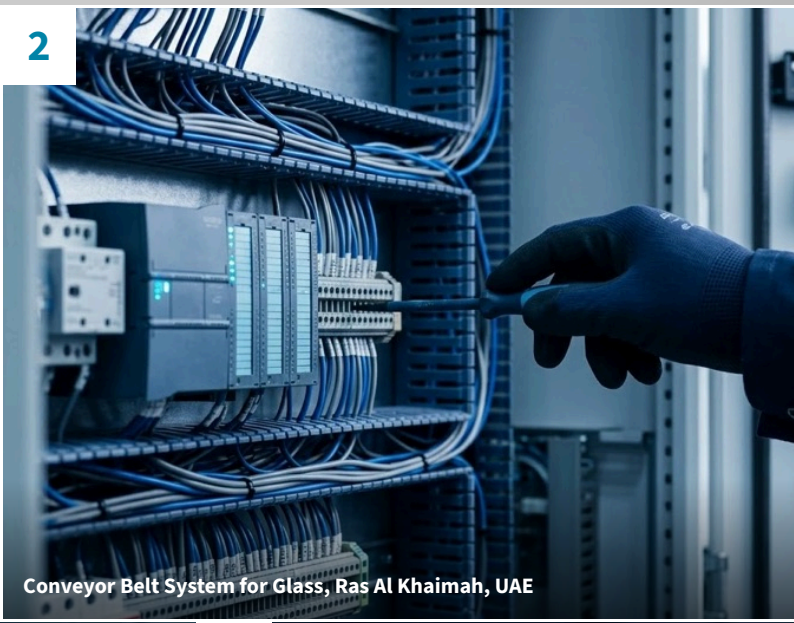
From e-commerce fulfilment and cold-chain stores to manufacturing logistics, ports and airport baggage handling, our systems reduce labour and errors and keep stock under the right conditions.

We ensure seamless integration with WMS, ERP and third-party equipment, supporting protocols like PROFINET, EtherCAT, EtherNet/IP, Modbus, OPC UA, MQTT and more. Additionally, we enable edge and cloud connectivity for real-time inventory and performance dashboards.

Application areas for the Segmic control solution

1. Distribution Centres
2. E-commerce Fulfilment
3. Cold-Chain Storage
4. Manufacturing Logistics
5. Spare-Parts Stores
6. Ports & Terminals
7. Airport Baggage
8. Pharmaceutical Storage
9. Retail Logistics

1 Automated Pipe Transport System, Al Jubail, Saudi Arabia



2 Conveyor Belt System for Glass, Ras Al Khaimah, UAE

3 Distribution Centres

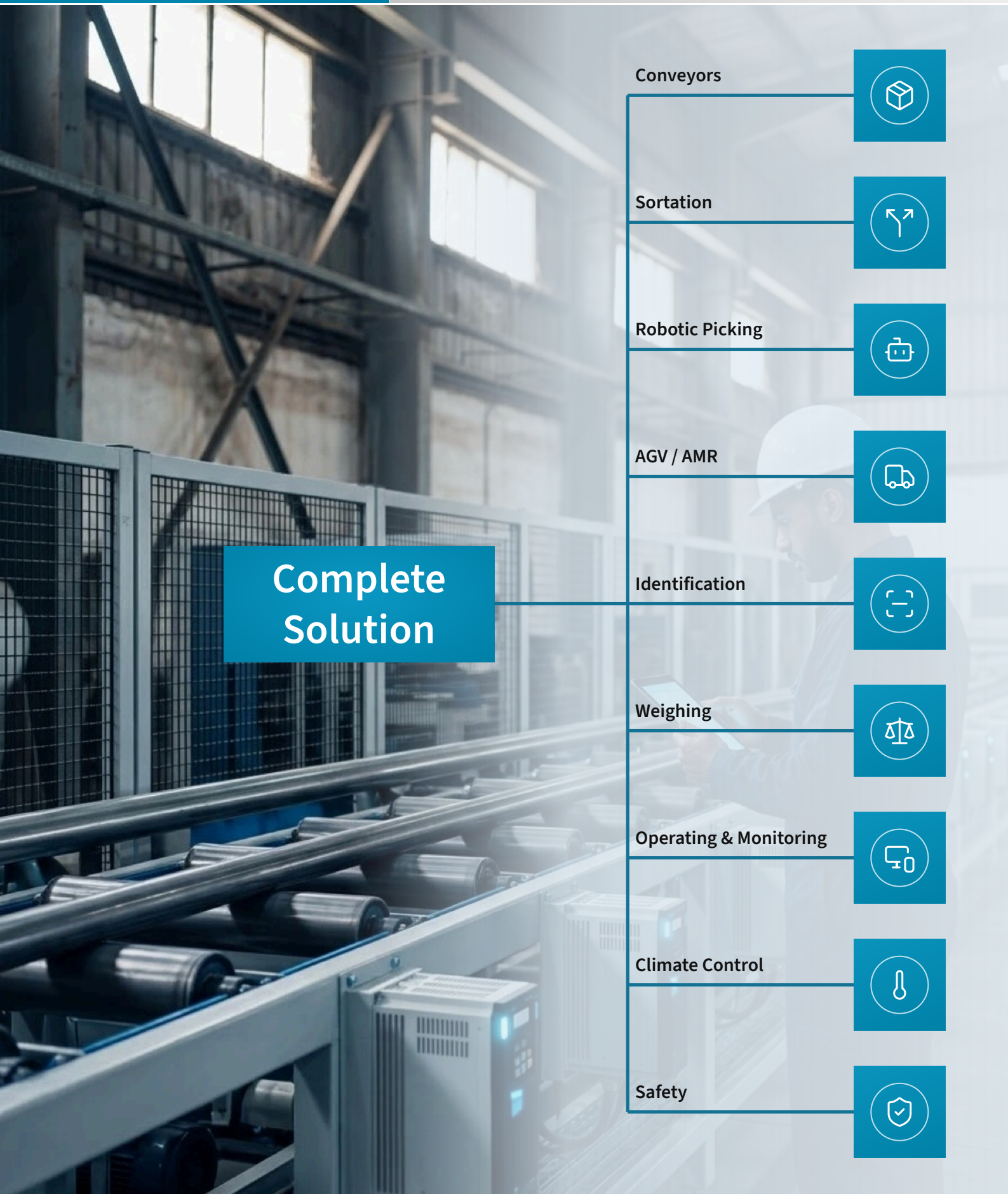
4 E-commerce Fulfilment

5 Cold-Chain Storage

From individual technical systems to a fast, accurate complete solution

All technical systems integrated in one control system:

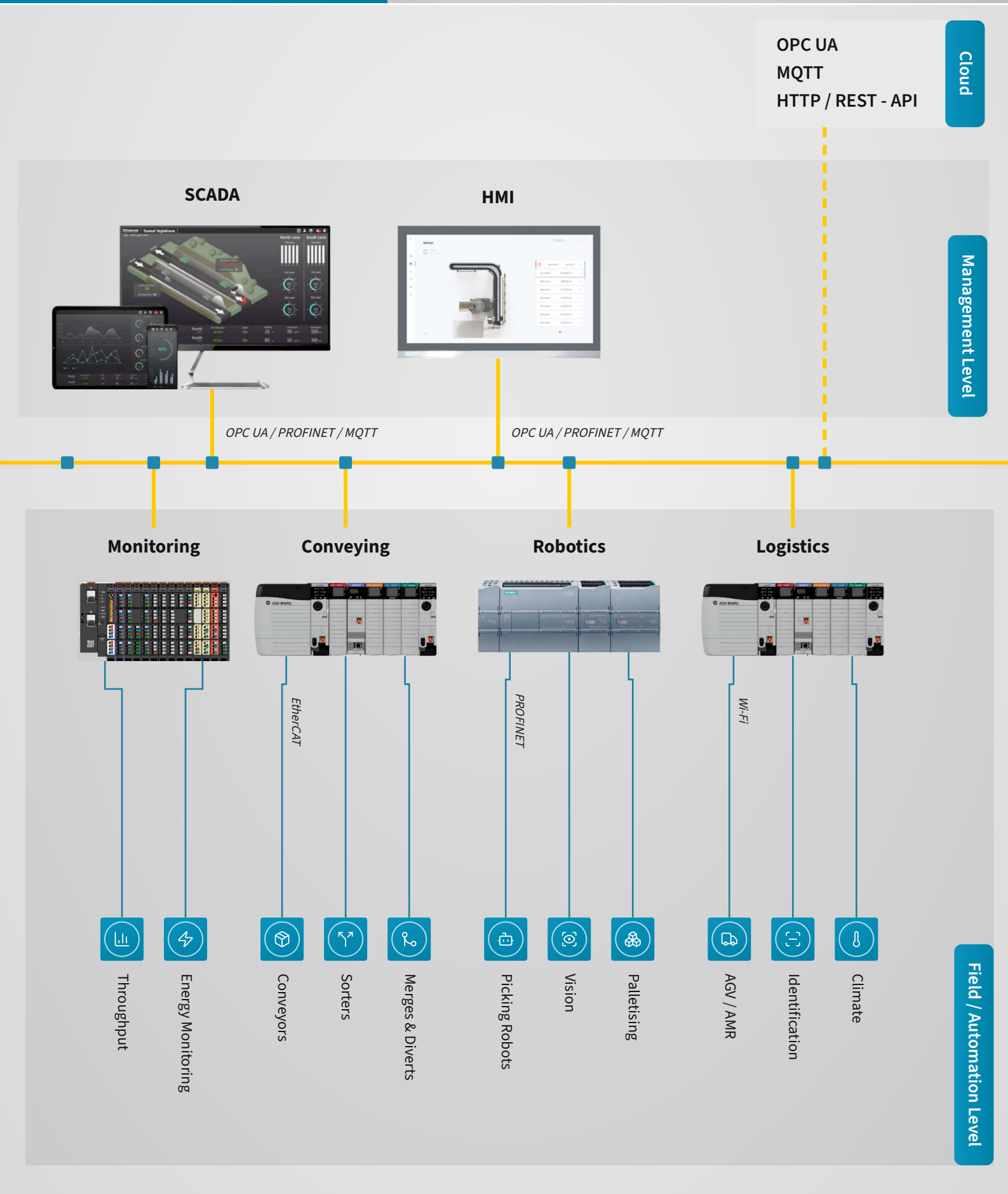
- Conveyors, merges and sortation
- Robotic picking and packing
- PLC-controlled AGV and AMR fleets
- Barcode, RFID and vision identification
- Climate control for storage zones
- WMS and ERP integration



All components for smart warehouse automation

At Segmic Engineering, we automate warehouses in a comprehensive, scalable, and future-ready manner. Motion controllers, decentralized I/Os and robot cells connect through high-speed fieldbuses to a central warehouse control system.

This approach keeps every zone synchronised with the WMS, significantly reduces cabling and commissioning time, and lets the layout grow with the business.



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