SEGMIC ENGINEERING

Solution Empowered by Innovations

Solutions for Efficient Process Automation

Process Automation with PLC based Control

As a specialist in PLC-based control, Segmic delivers advanced automation for continuous and batch processes. Our integrated approach combines powerful software, flexible controllers and modular I/O systems into scalable solutions for cement, steel, glass, food & beverage, chemicals and water treatment.

Our solutions are designed for precision and long-term performance, for new lines and retrofits alike. With expertise in platforms such as Siemens, Allen-Bradley, Emerson and many more, we deliver process control, recipe and batch management, material handling and energy optimisation tailored to each plant.

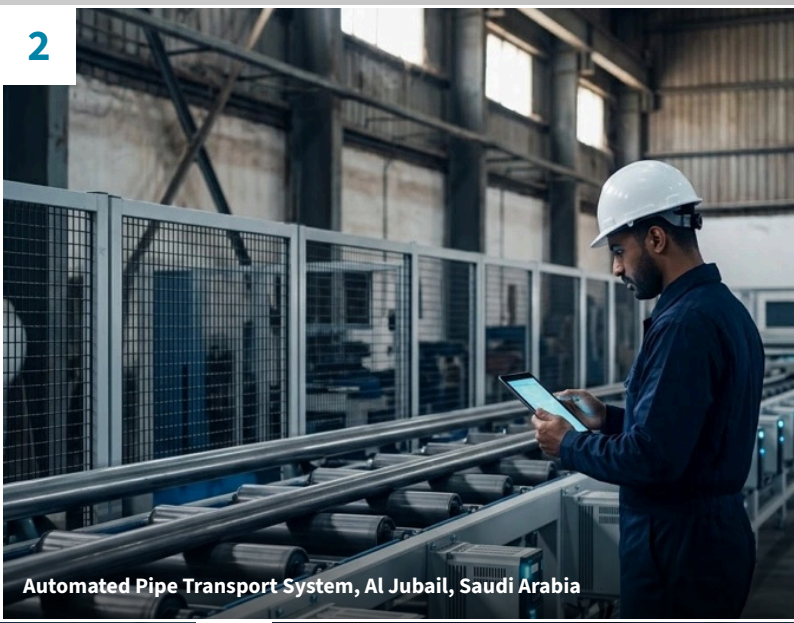
From kilns, mills and packing lines to mixing, filling, cold storage and reverse-osmosis plants, our systems raise throughput and quality while reducing waste and energy use. Real-time data and reporting give operators and managers the same trusted picture of the plant.

We ensure seamless integration with existing equipment and plant systems, supporting protocols like PROFINET, PROFIBUS, EtherNet/IP, Modbus, HART, OPC UA and more. Additionally, we enable edge and cloud connectivity for MES, ERP and analytics.

Application areas for the Segmic control solution

1. Cement Plants
2. Steel & Metals
3. Glass Manufacturing
4. Food & Beverage
5. Chemicals
6. Water Treatment
7. Packaging Lines
8. Paper & Tissue
9. Pharmaceuticals

Cement Bag Filling Machine, Abu Dhabi, UAE



Automated Pipe Transport System, Al Jubail, Saudi Arabia

Conveyor Belt System for Glass, Ras Al Khaimah, UAE

Condition Monitoring System, Fujairah, UAE

MDF Cutting Machine Drive Recalibration, Dubai, UAE

From individual technical systems to an efficient, connected complete solution

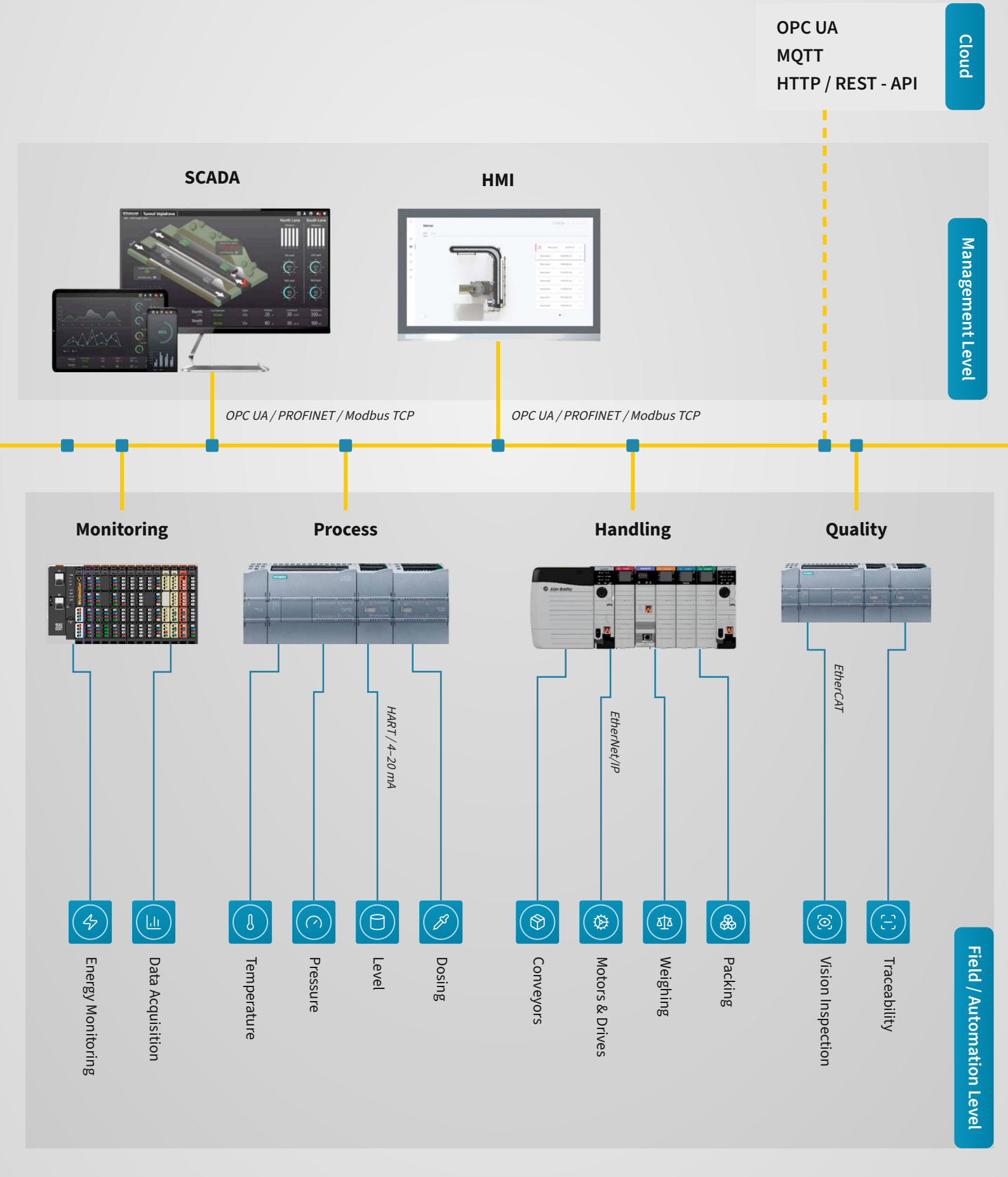
All technical systems integrated in one control system:

- Real-time process monitoring and control
- Batch processing and recipe management
- Material handling, dosing and filling
- Energy management and optimisation
- Quality data and traceability
- Reporting and plant data integration

All components for smart process automation

At Segmic Engineering, we automate even the most complex process plants in a comprehensive, scalable, and future-ready manner. Our platforms integrate decentralized I/Os, drives and third-party packages through advanced communication interfaces and fieldbuses.

This approach keeps the architecture clean and expandable and significantly reduces cabling and commissioning time — while making every tag available to SCADA, MES and analytics.



Website

Segmic
Engineering FZE

Office 1114, SIT
Tower, P.O. Box
342014