

Chemicals

Safe, repeatable control for batch and continuous chemical plant.



Chemical plants handle hazardous substances in batch and continuous processes, often on sites that have grown over decades. Their control and safety systems must hold reactions within safe limits, keep product quality consistent, act correctly when things go wrong, and give you and the regulator clear evidence that major-accident risks are under control.

YOUR PRIORITIES

What matters most

Major-accident prevention

Protection layers you can show are working.

Safety instrumented systems

Trips and interlocks that meet their target SIL.

Consistent, traceable batches

Repeatable recipes and complete batch records.

Change without disruption

Changes tested and documented before they go live.

STANDARDS

Standards we work to

IEC 61511

Safety instrumented systems for the process industry, across the whole safety lifecycle.

COMAH Regulations 2015

Duties on operators of sites holding dangerous substances to prevent and limit major accidents.

DSEAR 2002 and IEC 60079 series

Explosive atmosphere risk assessment and zoning, and the protection concepts for equipment in hazardous areas.

ISA-88 (IEC 61512)

Batch control: common models and terms for recipes, procedures and plant equipment.

EEMUA 191 and IEC 62682

Good practice and requirements for designing and managing industrial alarm systems.

IEC 62443

Cyber security for industrial automation and control systems, for owners, integrators and suppliers.

HOW WE DELIVER



Systems we engineer

- Reactor and batch process control
- Raw material handling and dosing
- Distillation, separation and drying
- Tank farms, storage and transfer
- Safety instrumented and interlock systems
- Batch reporting and control room HMIs

Why Matrix

- **Standards first.**
- **You own the system.**
- **Tested before site.**
- **Multi-vendor.**
- **In it for the long term.**

ISO 9001 certified • Cyber Essentials • CHAS • Constructionline • SafeContractor

Talk to us about your project

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