

Automotive

Robot and line control that keeps production safe, traceable and at rate.



Automotive plants run to takt time, with little slack between a fault on the line and a missed delivery. Their control systems must let robots, conveyors and people work safely side by side, deliver consistent quality with full traceability, and absorb new models and changes without stopping the line.

YOUR PRIORITIES

What matters most

Uptime at line rate

Reliable lines and fast fault recovery.

Robot and operator safety

Robot cells that are safe by design.

Quality and traceability

Every part traced to the process that made it.

Launches without disruption

New models in, without stopping the line.

STANDARDS

Standards we work to

IATF 16949

Quality management for automotive production and service parts organisations, built on ISO 9001.

ISO 10218-1 and -2 (2025)

Safety of industrial robots, and of robot applications and cells, including collaborative applications.

BS EN ISO 13849-1

Safety-related parts of machine control systems, rated by performance level (PL).

BS EN 60204-1

Electrical equipment of machines: wiring, control circuits, emergency stops and documentation.

VDA 6.3

The German automotive industry's process audit, used by many manufacturers to assess suppliers' production processes.

OEM controls standards

Vehicle manufacturers' own specifications for PLCs, robots, HMIs, safety and code structure.

HOW WE DELIVER



Systems we engineer

- Robot cells and robot integration
- Assembly and conveyor line control
- Machine and robot safety systems
- Part tracking and traceability
- Line HMIs, alarms and production reporting
- Maintenance reporting and diagnostics

PROJECT EXPERIENCE

Automotive robot control

Matrix delivered robot control and integration for an automotive production process. Every project we deliver follows the same approach: requirements and standards agreed up front, logic tested against a simulation before site, and full documentation at handover.

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

Talk to us about your project

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