



INDUSTRY BRIEF

Warehousing & Logistics

Control systems that move the right load to the right place, first time.

 MATRIX



What matters most

Throughput at peak

Orders must leave on time, especially at peak. Conveyors, cranes and sortation have to route every load the best way and recover quickly from faults.

Knowing where everything is

Every tote, pallet and carton needs tracking from receipt to despatch, with the control system and your warehouse management system kept in step at all times.

People and automation

Cranes, shuttles, automated vehicles and conveyors share space with people. Safety functions, guarding and safe maintenance access must meet machinery standards and your risk assessment.

Uptime and maintenance

Unplanned stoppages cost orders and overtime. Clear alarms, fault diagnostics and maintenance reporting help your team fix problems quickly and plan maintenance before it becomes urgent.

The standards that shape your project

Standard	What it covers
BS EN 619	Safety of conveyors and handling equipment for unit loads such as totes, cartons and pallets.
BS EN 528	Safety of rail-dependent storage and retrieval machines such as stacker cranes.
BS EN 15095	Safety of power-operated mobile racking and shelving, carousels and storage lifts.
BS EN ISO 3691-4	Safety of driverless industrial trucks, such as AGVs and AMRs, and the areas they work in.
BS EN ISO 13849-1	Design of safety-related parts of control systems, rated by performance level.
Supply of Machinery (Safety) Regulations 2008	GB law on machinery safety: essential requirements, conformity assessment, marking and declaration.

The standards listed are those most often relevant to control-system work in this sector. Which apply to your project, and how, is agreed with you at specification stage.

From specification to long-term support



Most warehouse automation goes into a building that is already trading. We prove routing and storage logic against a simulated system before site, phase cut-overs around your peaks and agree interfaces to your WMS early. You receive the design, code and safety documentation to run and extend the system yourselves.

Systems we engineer

- Conveyors, turntables and transfers
- Stacker cranes and automated storage
- Tote and pallet handling
- Palletising and order consolidation
- WMS, WCS and MES integration
- SCADA, recipes and maintenance reporting

PROJECT EXPERIENCE

Conveyor and crane warehousing

Matrix implemented the software, electrical and SCADA system for a material handling system: conveyors, cranes, turntables, tote and pallet handling, and storage. It routes material by the ideal path, stores in-demand product dynamically, consolidates items onto single pallets, and provides SCADA recipe handling, maintenance reporting and MES part tracking.

The evidence you receive at handover

✓ Functional design specification

✓ I/O list and cause-and-effect

✓ Alarm list and HMI interface

✓ FAT and SAT records

✓ As-built drawings and source code

✓ Method statements for common faults

Why customers choose us

Standards first

An ISO 9001 certified quality system, designing to the standards your sector demands, plus any you specify.

You own the system

Clear structure, open interfaces and complete documentation, so you can support it yourself or with any vendor.

Tested before site

Control code is version-controlled and tested against a simulated plant before factory and site acceptance.

Multi-vendor

Siemens, Rockwell, ABB, Schneider, Mitsubishi, Beckhoff, Emerson, Honeywell and GE platforms.

In it for the long term

For us a project is not finished until the control system is decommissioned. 24/7 support is available under a support agreement.

OUR PROMISE

Standards-led, fully documented control systems that you own and can support.

GET IN TOUCH

Talk to us about your project

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