

AUTOMATION SOLUTIONS

Automation Solutions That Turn Ideas into **Industrial Reality**

Intelligent, integrated automation systems that raise performance, accuracy and productivity across your operations — from raw material infeed to final dispatch.

WHAT WE DO

One partner, end to end

MERLIN designs, builds and integrates automation for manufacturing and intralogistics. We combine robotics, conveyors, AGVs/AMRs, ASRS, AI and machine vision with intelligent controls — engineered around your process, integrated with your MES/ERP, and built to scale as demand grows.



AI & Machine Vision



Real-time Data



Modular & Scalable



MES / ERP Integration

OUR CAPABILITIES



01

Robotic Automation

AI- and vision-powered robotic cells, custom-engineered for adaptive, safe and scalable operation.



02

Material Handling Automation

Conveyors, AGVs, AMRs and RGVs for connected material flow from infeed to dispatch.



03

End-of-Line Automation

Packaging, inspection, palletizing and dispatch integrated into one high-OEE system.



04

Warehouse Automation

ASRS, sortation, robotic picking and WMS integration for data-driven intralogistics.



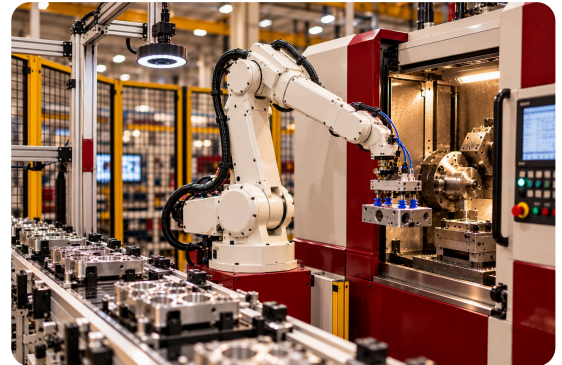
05

Line Automation

Complete, expandable production lines combining robotics, AI, vision and smart controls.

01 ROBOTIC AUTOMATION Precision robotics, powered by AI & vision

MERLIN's robotic solutions use AI and machine vision to raise productivity, precision and decision-making across industries. Every cell is custom-engineered and integrated for adaptive, safe and scalable operation — from a single cobot station to multi-robot lines.



Pick & Place



Machine Tending



Robotic Palletizing



Robotic
Depalletizing



Vision Based
Inspection



Dispensing, Gluing &
Sealing



Robotic Packaging



Welding
Applications



Sorting &
Classification



Cobot Applications

02 MATERIAL HANDLING AUTOMATION Seamless movement across your operation



Intelligent material handling that reduces manual handling and improves throughput, safety and consistency. Conveyors, robotics and smart controls create connected material flow, while AI, vision and real-time data optimise routing, buffering and line performance — from infeed to dispatch.



Conveyor Systems



Automated Guided
Vehicles (AGV)



Autonomous Mobile Robots
(AMR)



Rail Guided Vehicles (RGV)



Operator Assisted Handling
Systems



Accumulation Systems



Pallet Handling Systems

03 END-OF-LINE AUTOMATION

Speed, accuracy & consistency at the final stage

Integrated end-of-line and packaging automation that connects packaging, inspection, palletizing and dispatch. Covering primary, secondary and tertiary packaging across product sizes, formats and weights — reducing manual intervention, improving safety and raising OEE with modular designs that grow with demand.



Packaging Automation

Primary, secondary & tertiary packaging — faster rates, consistent quality, quick changeovers.



Robotic Pick, Place & Case Handling

High repeatability, stable output, less manual handling.



Conveying & Unitization

Accumulation and conveying that link every end-of-line process.



Warehouse & Dispatch Integration

Seamless handover to logistics, fewer dispatch errors.



Vision Inspection & Verification

Inline checks for accuracy and compliance with real-time rejection.



Robotic Palletizing & Depalletizing

More pallets per hour, consistent pallet quality, safer work.



Validation & Traceability

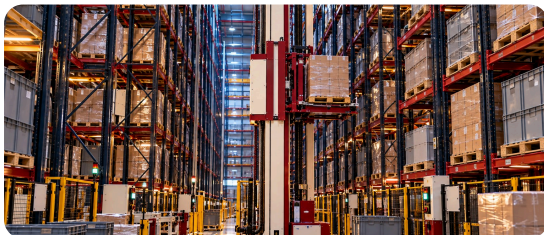
Automated data capture before dispatch — compliance-ready records.

WHY MERLIN FOR END-OF-LINE

- Modular, scalable architecture
- AI, vision & data-driven intelligence
- Optimised throughput, minimal downtime
- Seamless upstream line integration
- Built for high-mix, high-volume
- Durable build, lower lifecycle cost

04 WAREHOUSE AUTOMATION

Data-driven, high-throughput intralogistics



Warehouse automation that optimises storage, material movement and order fulfilment — integrated with your production lines. Conveyors, ASRS, AGVs/AMRs, robotics and smart controls turn the warehouse into a data-driven, high-throughput hub with lower operating cost.



ASRS

High-density pallet, bin & tote storage with faster retrieval.



Conveyor & Sortation

Smooth flow and fast order routing across zones.



Robotic Picking

Accurate handling of cartons, totes & cases.



WMS Integration

ERP / MES link for real-time inventory visibility.



Inbound & Outbound

Shorter dock-to-stock, faster truck turnaround.



AGV / AMR Movement

Flexible, safe, scalable autonomous transport.



Picking, Kitting & Sequencing

Faster fulfilment, synced with production.



Dispatch & Logistics

Error-free dispatch and optimised load planning.



Throughput



Space Utilisation



Fewer Picking Errors



Less Labour
Dependency



Faster Fulfilment



Lower TCO

05 LINE AUTOMATION Complete production lines, built to scale

MERLIN line automation brings robotics, AI, machine vision and intelligent controls together into high-performance production systems — each designed to lift throughput, quality and operational efficiency, and ready for future expansion.



AI & Machine Vision

Inspection, object recognition, QA and automated decisions.



Real-time Monitoring

Live dashboards on equipment performance.



Predictive Maintenance

Diagnostics that cut downtime before it happens.



Safety & Compliance

Integrated safety to industrial & regulatory standards.



END-TO-END AUTOMATION FLOW

Integrated smart manufacturing & warehouse automation

01

Raw Material Infeed

Truck unloading, palletizing, dock systems

02

Material Handling & Conveyance

Conveyors, AGV/AMR, RGV, transfer, traceability

03

Robotic Manufacturing

Machine tending, assembly, welding, dispensing

04

AI & Vision Inspection

Quality checks, dimensional verification, defects

05

Palletizing / Depalletizing

Load optimisation & space efficiency

06

End-of-Line Automation

Packaging, labelling, serialisation

07

Validation & Traceability

Test reports, data logging, MES/ERP

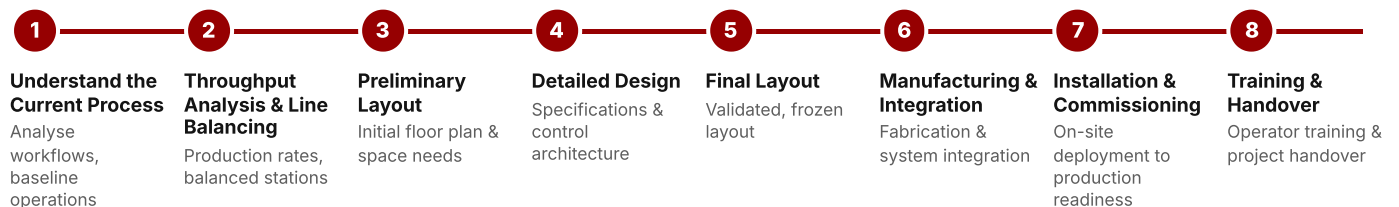
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Sorting & Routing

Good / rework / reject, line balancing

HOW WE DELIVER

Our 8-phase implementation process



**Let's automate
your next line.**

Share your process, throughput targets and floor space — our engineers will map the right automation for you.



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