



Your Trusted AGV/AMR Partner for Automotive Line Building

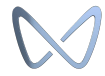
Execution-Safe Automation for Greenfield & Brownfield Manufacturing Lines



Trusted by Leading Automotive & Industrial System Integrators & OEMs



VINFAST



mahindra



JOHN DEERE



Unilever



DAIKIN



eka
ENVIRONMENT
CONSCIOUS MOBILITY



Mondelēz
International



DAIMLER



CATERPILLAR



Ford

The Reality of Automotive Line-Building Programs

Where delivery risk becomes your responsibility



Vendor Failure = Your Penalty

FAT / SAT slippages and customer escalations directly erode margins and put delivery commitments at risk.



Moving Goalposts Post-Award

Requirements, layouts, and sequencing logic continue to evolve during execution—often after commercial lock-in.



Warranty Drag & Ownership Gaps

Rework cycles, interface ambiguities, and unclear responsibility extend closures and strain cash flow.

How Novus Protects / Enhances Your Line-Building Commitments

Structured execution designed to absorb risk



Single-Point Delivery Ownership

One accountable interface with aligned acceptance criteria and structured change control across the implementation lifecycle.



Change-Resilient Execution

Post-award ECR / ECOs handled through rapid engineering iteration without impacting the program schedule.



Shared FAT / SAT Accountability

Pre-FAT validation in controlled environments and buffer strategies to safeguard critical milestones.



On-Floor Support Beyond Contract Scope

When shopfloor reality diverges from drawings, Novus stays hands-on until line stability is achieved.

Automation Portfolio for Automotive Line Building



Line-Side Intralogistics
Tugger, carrier-based, compact, and lifter AGVs / AMRs supporting skids, trolleys, fixtures, and custom carriers across JIS / JIT supply, buffer zones, lifts, rapid-action doors, and constrained aisles.

- Assembly Line Transfer Systems**
- Engine and transmission carriers
 - Battery line trolley movement
 - Marriage transfer AGVs (single & dual-lift)
 - Cockpit, axle, suspension, and module sequencing



Greenfield / Brownfield Deployments

- Compact system footprints
- No civil re-routing or floor modification
- Seamless coexistence with conveyors, robots, tooling, and manual stations

Integration & Line Readiness

Predictable start-ups. No last-minute recoveries.

 PLC-level handshakes and safety interfacing (Profinet / Profisafe)	 MES integration for traceability and line coordination (SAP, Opcenter)	 VDA 5050-ready fleet management for multi-vendor AGV environments	 Full validation packs: ISO 3691-4, CE conformity, UL conformity, risk assessments, DFMEA / PFMEA, line acceptance documentation
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Delivery, Commissioning & Lifecycle Support

 8–12 week deployment cycles • Dedicated program management office (PMO) • On-site commissioning leadership aligned with line-builder teams	 24x7 diagnostics and service access • Local / resident service engineers • Line-critical spares at site • Structured AMC models aligned to ramp-up and steady-state operations
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Performance Benchmarks from Live Automotive Lines

>98%

fleet availability in production environments

±2/±5 mm

docking and station stop accuracy

100+

automotive line references

18–24 month

payback models aligned to line-automation programs

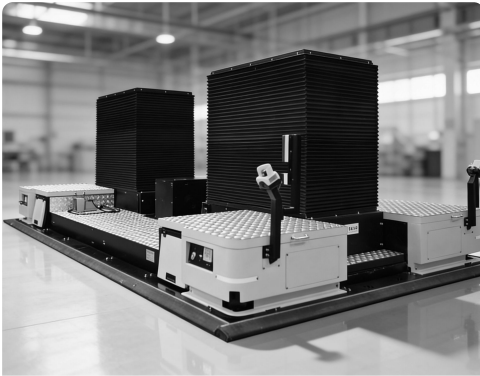
Cycle-time matched to line takt requirements

Proven Automotive Line-Building Applications



Trim/JIS

Zero-forklift line-side architectures with error-proof sequencing and part presentation.



Battery Lines

Heavy-duty, flame-safe carriers with MES traceability and safety interlocks.



Engine & Transmission Lines

Precision carriers with torque-tool integration, poka-yoke interfaces, and quality data capture.



Marriage Stations

Single and dual-lifter AGVs with skid and fixture compatibility for EV / ICE mixed lines.

Designed to Absorb Line Changes

Mid-Program Scope Changes

Controlled ECR handling, rapid re-simulation, and fixture-level adaptability.

Routing, Takt, or Station Changes

Route re-validation, logic updates, and accelerated FAT / SAT realignment to protect delivery commitments.

Engage with 

Set up a joint proposal desk or book a pilot.

Access System Integrator playbooks and automotive line-building case studies.

