ROBOT®
FLOOR

Robot-Ready Environments

Trusted by the World's Smartest Warehouses Since 2018

Automation Starts with the Right Environment

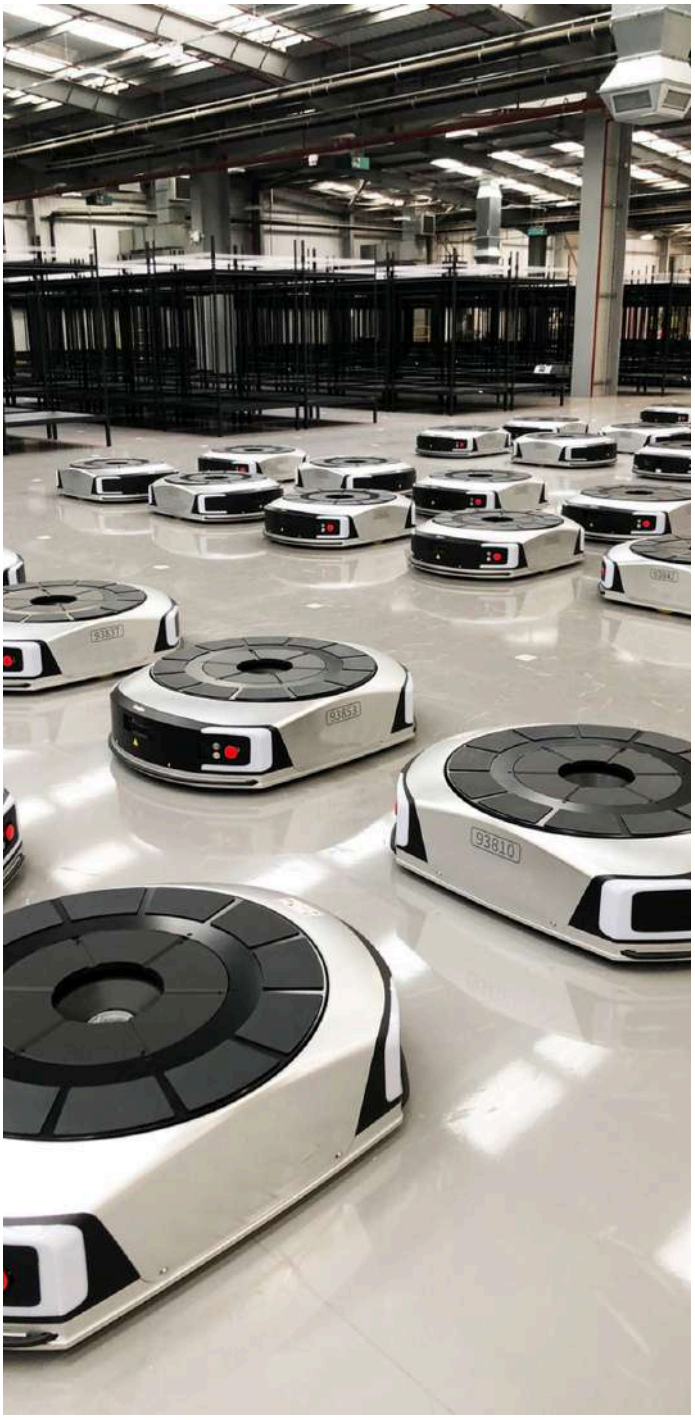
AMRs and AGVs now operate in far more demanding environments.

- Robot density is increasing.
- 24/7 operation is now standard.
- Competitors are advancing.

To stay ahead, environments must support the ability to:

- Scale without major re-work or shutdown.
- Maintain accuracy as robot numbers increase.
- Commission faster and reach ROI sooner.

In these environments, performance is defined by predictability.



Why Automation Fails

Automation issues don't always originate with robots or software, they often originate in the environment. When environments are not designed for sustained robotic operation, the result is:

- Lost revenue.
- Unplanned downtime.
- Delayed commissioning and go-lives.
- Navigation and performance issues.
- Increased integration risk across automation and IT systems.
- Costly remediation once robots are live.

These failures are rarely isolated and they only compound over time.

Robot-Ready Environments

Robot Floor® is an engineering and R&D company. We design and deliver robot-ready flooring infrastructure, from mezzanines to ground floors, that keep AMRs and AGVs moving at full speed. Our partnership unites four leaders in mezzanine, resin, fit-out, and installation to deliver one seamless solution.

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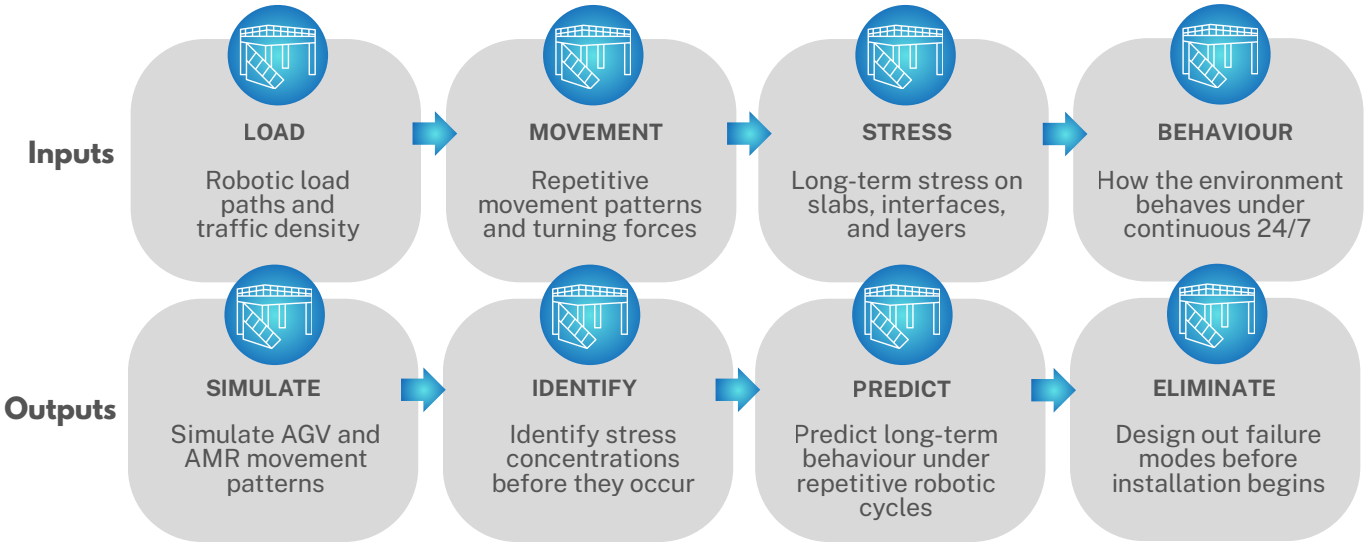
How We Approach Every Project

Before any specification is finalised, Robot Floor® undertakes detailed engineering analysis to understand how robotic systems will interact with the environment over time. Robot Floor® uses Finite Element Analysis (FEA) to model how robotic loads are transferred through the structures and floors over time.



What You Gain with Robot Floor®

End Users

- No downtime, no operational disruption.
- Seamless performance under 24/7 robot traffic.
- No joints – smooth and cleanable.
- Bfl S1 fire rating.
- 50 million+ robotic cycles and counting.
- Workplace benefits: noise reduction, waterproof, anti-static.
- Productivity improvements.
- Single source solution.
- Turnkey system.
- Globally proven floor system for automation/robots.

Integrators

- Single delivery partner for robotic infrastructure.
- Single point warranty.
- Bfl S1 fire rating.
- Fewer project risks.
- Rapid install.
- Guaranteed DM1/FM1/SR1 tolerances.
- No joints – smooth and cleanable.
- Seamless integration.
- Floors that meet any robotic specification.
- Turnkey system.
- Globally proven floor system for automation/robots.

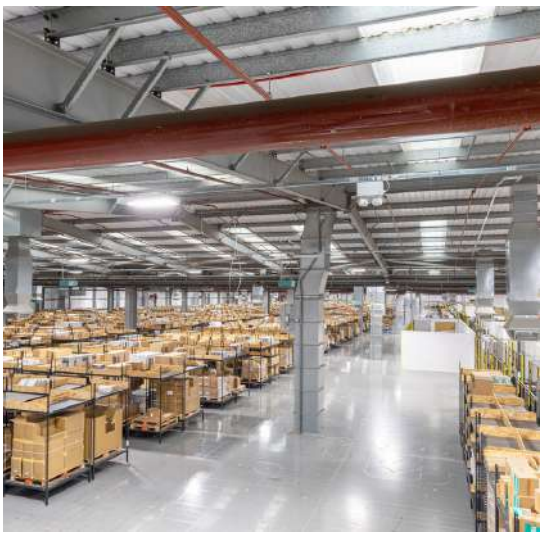
Robot Manufacturers

- Floors meeting navigation and repeatability tolerances.
- Fewer commissioning delays caused by floor defects.
- Seamless floor with no joints.
- Reduced integration failures linked to floor performance.
- No need to compensate for poor floors in software.
- Lower warranty risk from floor-induced issues.
- Faster site acceptance and sign-off.
- Globally proven.

Building Owners

- Increased asset value and tenant appeal.
- Lower risk of claims, disputes, and remediation.
- Floors engineered for long-term durability and future automation.
- No joints – smooth and cleanable.
- Reduced maintenance and repair costs.
- Bfl S1 fire rating.
- Single point of responsibility and warranty - no multi-contractor disputes.
- Globally proven.

The Complete Solution for Mezzanine and Warehouse Robotics Environment



Our unique approach includes:

- Bespoke engineering and design of complex mezzanine floors.
- Manufacture, delivery, and installation for seamless execution.
- All M+E and fire protection for full compliance and safety. Shelving, fencing, racking, staircases, and offices for a complete infrastructure.
- Installation of seamless, waterproof, temperature controlled robot floors for automated environments.
- Super flat floors and demarcation for precision and efficiency.
- Assigned principal contractor for ease of project management and health and safety.
- Single point delivery through one company and warranty for complete peace of mind.

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The Robot Floor® Partnership

Robot Floor® brings together four specialist companies, each leaders in their respective disciplines, to deliver end-to-end robot-ready infrastructure engineered for automated environments.

By aligning materials science, structural design engineering, installation expertise, and programme delivery, the partnership removes fragmentation and risk - providing a single, coordinated approach to environments operating under AMRs and AGVs, now and in the future.

Why This Matters for Automated Facilities

In automated environments, the floor is no longer passive infrastructure. It is a critical operational interface that directly affects reliability, profitability, and return on investment. This results in:

- Faster commissioning and earlier ROI.
- Operational stability under continuous, high-density robotic traffic.
- Consistent performance as robot fleets scale.
- Infrastructure that supports future automation.
- Clear ownership and accountability.

These outcomes are achieved through one engineered solution, delivered by specialists who have understood the operational realities of automation since 2018.

AVANTA

Turnkey industrial delivery
Coordinating complex industrial build programmes, integrating flooring, automation, and building works into a single, managed delivery.

DAVICON

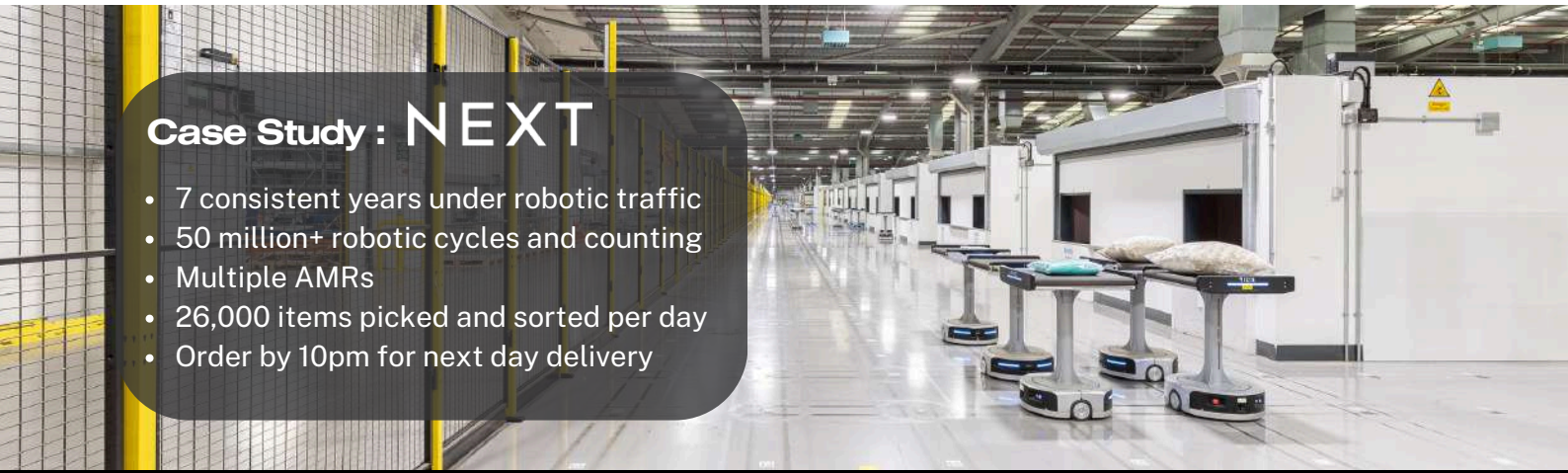
Structural mezzanine expertise
Designing and constructing mezzanine floors capable of supporting robotic loads, high traffic density, and long-term operational demands.

FLOWCRETE

Materials science & performance systems
Supplying globally proven resin flooring technologies engineered for durability and compatibility with robotic operations.

ATS

Resin flooring systems & installation
Delivering manufacturer-approved resin flooring systems through globally qualified installers, ensuring consistent quality and compliance.



Case Study : NEXT

- 7 consistent years under robotic traffic
- 50 million+ robotic cycles and counting
- Multiple AMRs
- 26,000 items picked and sorted per day
- Order by 10pm for next day delivery

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