

FORTNA

Intelligent Warehouse Automation

Powered by the FORTNA Suite
of Software Solutions

Start Here >



A clear view into operations

Solve complex distribution challenges with ease

Software solutions for business challenges

Businesses must remain competitive and profitable. Warehouses are being pushed to deliver more than ever, and you must meet rising customer demands while overcoming complex challenges like labor shortages and fluctuating inventory levels.

Automation offers a clear path forward, but implementing the right strategy for your operations can be complex. The key is to leverage flexible software that adapts to your changing needs.

A balancing act

Intelligent software offers a solution to maximize throughput while reducing cost per pick by managing the flow of work in your distribution and fulfillment center. Balance the demand of work against the available supply of inventory and resources utilizing a combination of material handling integration and manual execution processes with real-time visibility into facility performance.

It remains essential to optimize operations for maximum efficiency, reliability and flexibility. FORTNA designs and implements innovative and high-performance solutions for customers to power their operations with fast and accurate order fulfillment.

FORTNA WES™, FORTNA WCS™ and FORTNA OptiSlot DC™ enable these operations in fully automated and mixed-manual environments.



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FORTNA WES™
solves your
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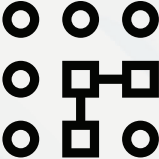
The FORTNA Software Suite

Warehouse automation software to power optimal performance



FORTNA WES™

Orchestrates the flow of work while balancing inventory and available resources using real-time visibility.



FORTNA WCS™

Handles the direct control and monitoring of an assortment of automated material handling equipment.



FORTNA OptiSlot DC™

Empowers operators to make intelligent product placement decisions to maximize efficiencies and find optimal slots for sustainable inventory replenishment.

Power performance with intelligent WES software

FORTNA WES™

What is FORTNA WES™?

WES is redefining the future of warehouse operations with “autonomous flow” to seamlessly orchestrate people, processes and technology for dynamic, efficient and responsive distribution centers. Powered by AI and machine learning, FORTNA WES™ empowers operators to manage their operations with confidence, leveraging real-time data, advanced algorithms and seamless integration of automated and manual processes.

By integrating real-time decision-making capabilities with advanced resource and inventory management tools, FORTNA WES™ adapts to shifting demands and ensures seamless order fulfillment. WES incorporates predictive optimization algorithms, allowing the system to make smarter, faster decisions than human operators could alone. This ensures businesses can adapt to peak demands, improve throughput and maintain seamless operations even in the most complex environments.

FORTNA’s extensive experience in integrating with warehouse management systems and warehouse control systems combined with our flexible platform provides our customers with a reliable, repeatable solution facilitating future growth.



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FORTNA WES™ solves your biggest warehouse challenges

FORTNA WES™

Your biggest challenges, solved

- **Solutions that can't scale:** Software needs to scale to meet your specific needs, ensuring seamless order fulfillment and real-time visibility.
- **Suboptimal worker efficiency:** Determining which resource (human or automated) to assign work to is a hard job for anyone. How do you know you are reducing idle time and maximizing throughput in your fulfillment centers?
- **Lack of support for various environments:** Is your fulfillment center set up to support both your current and future automation needs? If not, you may have to deploy a separate software solution for automation and for manual workflows.
- **Uninformed decision-making:** Without real-time data and analytics from your automated and manual workflows, how can you make informed decisions to optimize resource allocation and improve overall operational performance?



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FORTNA WES™ optimizes your warehouse automation

In today's rapidly changing business landscape, labor shortages and increasing automation are becoming major challenges for facility operations. FORTNA WES™ offers a comprehensive solution to provide value in all areas.

- **Unified framework for order fulfillment:** WES accommodates a wide variety of workflows, from receiving to shipping, providing unparalleled flexibility to adapt to any operation and any situation.
- **Real-time algorithms for operational efficiency:** Advanced optimization algorithms dynamically prioritize and interject orders to maximize throughput and reduce idle time, ensuring leaner, more efficient operations.
- **Integration with automated and manual systems:** Seamless coordination between automation, robotics and manual workflows ensures flexibility for hybrid warehouse environments, supporting businesses at any stage of automation.



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Drive improved MHE performance

What is FORTNA WCS™?

Automation and controls are constantly evolving. Standards are lacking across the industry. Business-critical operations require a controls system that integrates with any supplier's equipment, systems and applications to reduce implementation time and risk. FORTNA WCS™ offers a vendor-agnostic controls approach that enables real-time control of your MHE system.

FORTNA WCS™ accomplishes inventory movement across highly automated facilities through integrating the conveyor controls and executing messaging and communication layers between PLCs and hosts while including best-of-breed visualization and insights into the real-time status of the material handling equipment.

FORTNA WCS™

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FORTNA WCS™ provides reliability and enables business agility

Automation and MHE systems can be complex, but visibility and control don't have to be. FORTNA WCS™ provides a powerful platform to implement warehouse automation systems with agility while minimizing installation time, complexity and risk.

- **System Visibility:** FORTNA WCS™ includes everything you need to monitor and troubleshoot your system, enabling your maintenance and support teams to keep your system running smoothly with a single access point for visibility and control of your material handling equipment.
- **Enhanced SCADA:** Built on an industry-standard Ignition! platform to provide a single web-based user interface for Machine Control and Business Logic, to streamline hardware and software data for enhanced troubleshooting and data analysis.
- **Maintenance and Support:** Empower maintenance and support teams. Machine Control, Business Logic and SCADA developed with standard tools/modules offer increased supportability throughout your journey.
- **Modern PLC and Business logic:** PLC-based controls allow for easier integration, configuration and maintenance without having to upskill your tech teams, while the Business Logic comes ready for a variety of standard protocols and formats for integration.

FORTNA WCS™



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Optimize operations and increase productivity

FORTNA OptiSlot DC™

What is FORTNA OptiSlot DC™?

Warehouses can gain rapid ROI by optimizing operations with advanced slotting software. As a result, operations benefit from increased productivity, reduced labor expenses, controlled replenishment, better inventory management, reduction in partial order shipments, improved order quality, and improved space utilization.

FORTNA OptiSlot DC™ is an intelligent, data-driven slotting solution designed to optimize inventory placement. Leveraging advanced algorithms and digital twinning, FORTNA OptiSlot DC™ goes beyond simple item location suggestions, providing a comprehensive suite of functions to enhance operational efficiency, reduce labor costs, and improve overall fulfillment center performance.



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FORTNA OptiSlot DC™

Intelligent slotting for volume, efficiency and reliability

FORTNA OptiSlot DC™

Your biggest challenges, solved

- **Inefficient picking processes:** Long travel times and disorganized slotting slow down order fulfillment.
- **High replenishment costs:** Frequent replenishments due to poor slotting increase labor costs and disrupt workflows.
- **Difficulty managing seasonal/promotional items:** Seasonal peaks and promotions require quick reorganization, which is challenging without fast, flexible slotting strategies.
- **Increased damage and shrinkage:** Improperly placed or stacked fragile items result in costly damage during handling.
- **Mismanaged space utilization:** Poorly organized inventory and the constant influx of new stock result in underutilized space, leading to unnecessary expansion costs.



10% productivity gain



40% damage reduction



12% replenishment reduction

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Unlock efficiencies with slotting software

- **Unlock maximum efficiency:** Harness the power of advanced algorithms to strategically optimize item placement that boosts overall performance by 10%.
- **Proactive problem-solving:** Utilize a digital twin of your facility to visualize, analyze and address problems before they impact your operations and reduce damage by 40%.
- **Risk-free optimization:** Preview and fine-tune what-if scenarios using real order data, ensuring the most effective solution before performing moves and reducing replenishment moves by 12%.
- **Tailored flexibility:** Customize FORTNA OptiSlot DC™ to fit seamlessly into your existing operations, ensuring the strategy adapts to your unique needs.
- **Exceptional support:** Benefit from our dedicated support team, offering expert guidance through every stage—setup, training and ongoing support.

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FORTNA partners with the world's leading brands to transform omnichannel and parcel distribution operations. Known world-wide for enabling companies to keep pace with digital disruption and growth objectives, we design and deliver solutions, powered by intelligent software, to optimize fast, accurate and cost-effective order fulfillment and last mile delivery. Our people, innovative approach and proprietary algorithms and tools ensure optimal operations design and material and information flow. We deliver exceptional value every day to our customers with comprehensive services and products including network strategy, distribution center operational design and implementation, material handling automated equipment, robotics and a comprehensive suite of lifecycle services.

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