



PULSE.exe

Cost-effective software tools with high-level functionality for your warehouse operations.





PULSE.exe Software

With a rapidly increasing demand for speed and accuracy, it's important to choose the right Warehouse Execution System. Managing inventory and order fulfillment is crucial to the success of any automated material handling system. Working in concert with ERP systems, the PULSE.exe software is the right solution to challenging ever increasing demands from your customers. Choosing the right solution can be confusing as many systems are not designed to optimize technology, capacity or take advantage of order/picking batch efficiency.

Fine Tuning the Warehouse

PULSE.exe is a full set of integration tools that provides operational insight and performance optimization throughout your entire operation. It is a flexible, tightly integrated system that uses advanced management capabilities for inventory control, resource scheduling and order management. It's modular in nature, easily configurable, and scalable to easily adapt to your current and future needs. The core of our tools is centered around our Warehouse Control System (WCS) and our Warehouse Execution System (WES).

Warehouse Execution System (WES)

The WES is the middleware between an ERP/WMS and the resources necessary to perform various tasks. These resources include labor as well as the WCS which controls the Material Handling Technologies. The WES communicates with the various resources to manage discrete inventory, collect information, and direct work efforts such as Order Fulfillment, Replenishment, and Shipping.

Warehouse Control System (WCS)

The WCS acts like a conductor in an orchestra, ensuring that individual pieces of material handling technology performs with harmony, precision and efficiency. This is the real-time layer that controls conveyor, AS/RS, AMRs, AGVS, etc.

Strengthening the Logistics Network

Supply Chain Optimization

Our customized and automated solutions improve planning, inventory, order fulfillment, and distribution strategies.

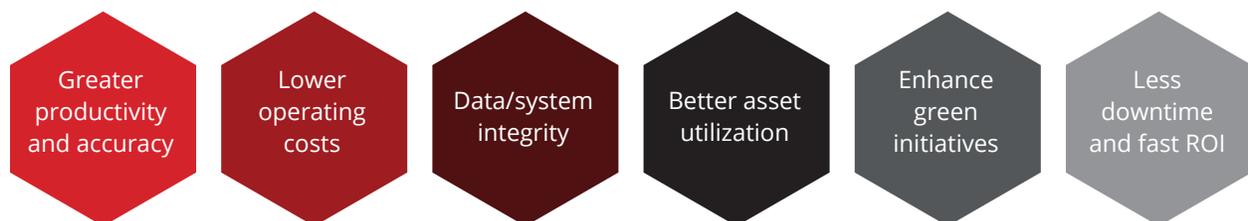
Operational Visibility & Control

You'll have greater end-to-end visibility and control using real-time data within a single system.

Analytics

We use powerful data analytics to provide strategic insight into the your supply chain operation.

Bottom Line Results





PULSE.exe

Incorporated into the PULSE.exe WES and WCS is a modular set of software products that encompasses all of the tools necessary to efficiently and economically operate your warehouse or distribution/fulfillment center. PULSE.exe software consists of the following five modules. You can select only the modules needed, and have the flexibility to add modules as your business grows:

- **Inventory Management System (IMS)™** - A key element of the WES is this state-of-the-art technology to enhance the accuracy and efficiency of warehouse operations and data integrity. IMS™ maintains optimum inventory levels, accurately managing and tracking inventory throughout the warehouse.
- **Order Management System (OMS)™** - The backbone of Order Fulfillment and the WES, the OMS provides the functionality necessary to properly and efficiently execute the order fulfillment process. This module facilitates the planning, processing, verifying, picking, packing and shipping of orders within the warehouse or distribution center.
- **Shipment Management System (SMS)™** - A software tool that provides reliable parcel and LTL shipment manifesting. Powered by ConnectShip™, SMS™ streamlines shipping processes based on your business needs.
- **Navigator™** - This module, an integral element of the WCS, is the focal point for managing the operational aspects of the material handling system. It optimizes the routing of orders on the conveyor system. This module coordinates real-time control devices to efficiently manage the workload.
- **Toolkit™** - This is a multi-purpose module which assists operators and managers to work in a proactive rather than reactive environment, ensuring quality throughput and on-time delivery. This application provides diagnostic and reporting tools to monitor system and operational performance.

PULSE A/S (AutoStore)

We understand that not all systems require custom configured solutions, so we have developed a standard product called PULSE A/S. This product draws upon various components our vast set of modular products and is configured into a product designed for fast, cost-effective implementation. The PULSE A/S includes all the functionality needed, including standard interfaces to ERP and WMS, inventory management, put-away, order fulfillment, and shipment.





PULSE.exe Modules

Module	PLAN	EXECUTE	VERIFY	REPORT
Inventory Management (IMS)™	Slotting	Receiving	Cycle Counting	Pallet Building
	Location Control	Put-Away	Physical Inventory	BOL / Manifesting
	Cross Docking	Product Transfer	Quantity Adjustments	Advanced Ship Notice
		Replenishments	Audit Trail	Location Metrics
Shipping Management (SMS)™	Rate Shopping	Multi-Carrier Shipping	Email Ship Notification	Carrier Compliant Docs
	Ship Method Override	Domestic/International	Business Rules	End of Day Process
	Address Validation	Carrier Compliant Labels	Ship Label Confirmation	Shipping Cost
		Automated Print & Apply		
Order Management (OMS)™	Wave Planning	Paper Picking	Contents List	Invoices/Pack Slips
	SKU Allocation	RF Picking	Manual Pack Verify	Fill Counts
	Cartonizing	Pick-To-Light	Weight Check	Pick Productivity
	Workload Balancing	Voice Directed	Verification Scan/Pack	SKU Metrics
		Automated Picking Systems	Audit Rules	
Navigator™	Route Planning	Real-Time Sortation	In-Line Scale	Scanner Statistics
	Flexible Mapping	Host/WCS Directed Routing	Divert Confirmation	Sort Statistics
		Zone Skipping	Carton Tracking	
		Round-Robin	Scanner Logs	
		Sort Rate Control		
Toolkit™	Flex Screens™	Host Interface	Diagnostic Tools	Flex Reports™
	Graphical User Interface	Service Manager	Statistics	Excel Export
	Security Control	Email/Text Alerts	Debug Tracing	Crystal Reports
	System Parameters			

Cost Effective

Since our software is equipment agnostic, the modules can be implemented quickly into your current operating system. This is a very efficient and cost-effective way to automate your operations and improve your ROI without the expense of purchasing new equipment.

Scalability

The modules can be added to an existing installation as a first automation step. As your warehouse or distribution needs change and/or expand, other PULSE.exe management tools can be seamlessly added.

Configurability

Our software is modular and user friendly. You can easily configure the modules to accommodate your company's unique business requirements, changing warehouse needs, and increased demand as your company grows and prospers.

Outstanding Support

PULSE.exe provides service and support that are second to none. Through extensive planning, our experienced project engineers work closely with you to provide you with the best solution and a seamless installation. We do not outsource our support to a third party, so you can be confident that you are getting support from experts who are familiar with your business environment.



PULSE.exe Integration Made Easy

From standard/customizable products such as PULSE A/S, Automated Storage and Retrieval software, to our fully customized solutions built from our vast product suite, our software has been designed to integrate a wide variety of technologies. As business requirements evolve, our software products and solutions continue to evolve to meet the ever-changing market demands. Please visit PULSE-si.com to fully explore the depth of software offered by PULSE Integration.

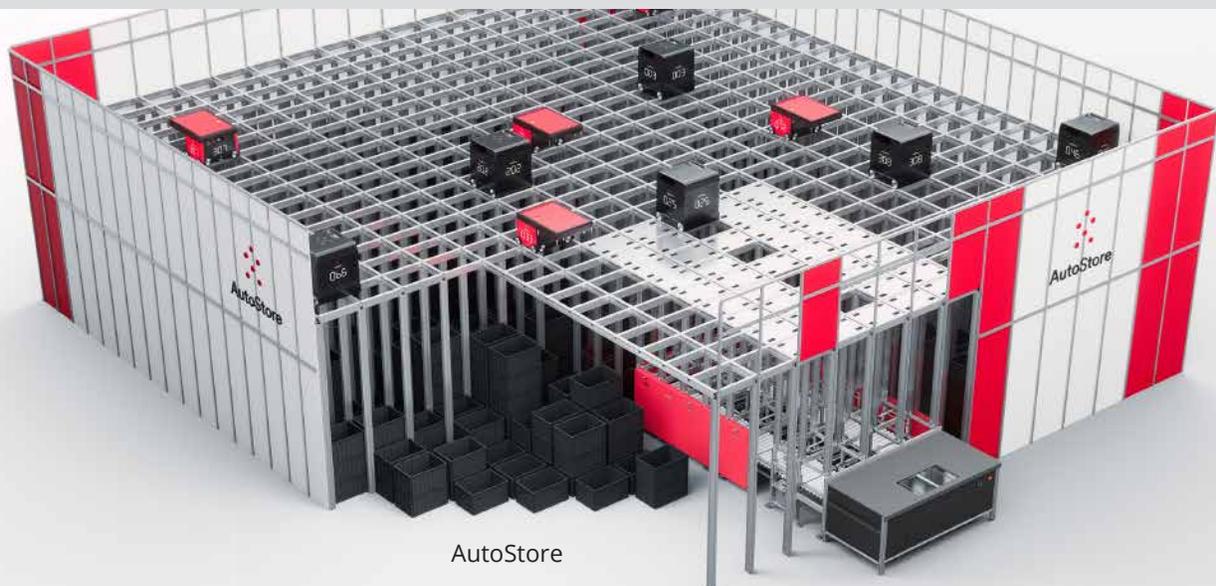
Carousels
VLMs

ASRS *Unit Load*
ASRS *Mini Load*

Pick-to-Light
Voice Pick

RF Pick
AutoStore

SDVs
AGVs



For more detailed information on the features of PULSE.exe, visit PULSE-si.com.



Headquarters

Pittston, Pennsylvania

Office Locations

Colorado	North Carolina
Florida	Ohio
Indiana	Pennsylvania**
Massachusetts	South Carolina
Michigan*	Utah
New Jersey	Vermont
New York	<i>*AMR Center of Excellence</i>
	<i>**AutoStore Center of Excellence</i>

Contact

570.655.5951 MAIN
PULSE-si.com WEB



@PULSE_si



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