

3 Steps in Warehouse Automation *How to turn your **warehouse** into a **profit** center*



Automated
Storage and
Retrieval
Systems (AS/RS)

Savanna.NET®
Warehouse
Management
(WMS)

Conveying
Systems

Pallet Flow
Systems

Case Packing
and Handling
Systems

OUR INNOVATION
YOUR SOLUTION

Optimizing Warehousing and Distribution

Westfalia Technologies, Inc. plans, designs and implements Conventional and Automated Storage & Retrieval Systems (AS/RS) with integrated order picking ideal for the food and beverage industries.

7 Key Features of Westfalia's Storage Systems

- 1 More throughput with a single storage/retrieval machine (SRM) -- up to 120 pallets / hour -- horizontal speeds up to 1000 ft/min. per unit load
- 2 Higher storage density - more product stored per square foot than anyone else
- 3 Lowest amount of vertical space required / lowest profile base - first load level can be as low as 20"
- 4 Buffering/accumulation conveyors within the rack structure to handle "crunch" times between manufacturing and storage -- saves space and adds flexibility
- 5 Even fully automated systems can be installed within an existing building
- 6 Multiple cranes in an aisle provides both increased throughput and back up of the system
- 7 Operates with all pallet sizes and no expensive "slave" pallets required



Savanna.NET® Warehouse Management Software

Think, manage and take control

With *Savanna.NET*® all product flows throughout the facility are tracked, optimized and controlled. Our WMS integrates with all the equipment in your facility to move your products, coordinate order picking and report on all inventory.

Flexibility

With its modular structure *Savanna.NET*'s customers select only the modules they need. Should the client's needs change in the future, additional modules can be added later.

Compatibility

All Westfalia software is compatible with common industry standards and easily integrates into existing IT architecture. We are a certified Microsoft C#.NET, SAP and HP partner.



Pick tunnel integrated within the rack structure

More throughput. Less space.

Steps in Warehouse Automation

CONVENTIONAL to	SEMI-AUTOMATED to	FULLY AUTOMATED
<p>DeepLane™ Pallet Flow / Gravity Flow Systems</p> <p>Conveying Systems <i>Accumulation conveyors, Right Angle Transfer conveyors, etc.</i></p> <p>Integrated Order Picking System <i>Pick-to-Pallet Jack / Pick-to-Voice / Pick to Forklift Truck</i></p> <p>Savanna.NET® WMS: Start with the basic functions & select additional functions needed. Some of the basic functions are: <ul style="list-style-type: none"> .check - inventory cycle counting tool .data - inventory data management of high to low moving SKUs .lane - management of storage locations within the rack structure .show - warehouse visualization for inventory & material flow .user - management of users permissions </p>	<p>Unit Load / Mini-Load AS/RS <i>Go Green with High Density Storage Multiple Deep, Single- or Double-Deep Configurations</i></p> <p>Case Packing & Handling Equipment: <i>Casers for all size bottles, cartons & jugs</i> <i>Stackers / Destackers / Conveyors / Palletizers / Depalletizers</i></p> <p>Order Picking Systems Integrated within the Rack Structure <i>Pick-to-Voice / Pick-to-Belt / Pick-to-Light</i></p> <p>Savanna.NET® WMS Some of the advanced modules to select from include: <ul style="list-style-type: none"> .move – control system for manual handling systems such as forklift trucks, handtrucks, etc. .pick – pick systems utilizing pick-to-light, pick-to-voice, etc </p>	<p>Unit Load / Mini-Load AS/RS <i>Go Green with High Density Storage Multiple Deep, Single- or Double-Deep Configurations</i></p> <p>Automatic Infeed from Production & Label Application</p> <p>Order Picking Systems Integrated within the Rack Structure</p> <p>Automatic Layer Picking Systems: create a rainbow pallet automatically</p> <p>Savanna.NET® WMS Some of the more advanced modules to select from include: <ul style="list-style-type: none"> .3PL - tracks changes and costs for billing purposes .custom - exclusive and individual, customer specific software functions and upgrades .yard - truck administration and yard management </p>



Innovative and Reliable Material Handling Equipment

Flexible conventional or automated material handling systems:

Built to your specifications for your warehouse's perfect fit, even in an existing building and with integrated order picking. The flexibility of our system designs means you can use multiple size pallets, cases, bottles, etc. throughout your warehouse.

Contact Westfalia today to start down the road to optimized warehousing system.



Benefits of Westfalia's Warehousing Systems

- Increase warehouse efficiency and accuracy, and boost productivity - 100% inventory accuracy
- Optimize processes and control of product flows:
 - FIFO product flow
 - Integrate order picking
 - pick-to-light / pick-to-voice / pick-to-belt
 - Product safety checks/ quality control
 - Lot tracking
 - Real time tracking of inventory, etc.
 - Reduces or eliminates the need for inventory audits
- "Go Green with High Density AS/RS" design minimizes your building footprint resulting in:
 - Lower construction cost
 - Less environmental impact
 - Sustainable energy cost savings of 30%+
 - Frees usable land for other uses
- Maximize available storage space, leaving additional capacity to handle new customers

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