



## Designing for Efficiency & Growth in 33' High Warehouse Using AS/RS & WMS

### Features and Benefits

Multiple deep AS/RS of 4 levels in 33' high building

30%+ reduction in energy costs through reduced lighting needs & SRM's regenerative braking

Improved picking efficiency due to WMS and automatic pick lane replenishment

3-Rail support of pallets throughout system reduces product damage & need for shrink-wrapping

**Industry Group:** Automated Storage/Retrieval Systems (ASRS)



*"At only 33' high, the facility's height is typical of conventional warehouses. But with our High Density AS/RS technology, its dense 4 level cubic storage requires a smaller building footprint, thereby having less impact on the environment around the facility."*

*~Dan Labell, President, Westfalia Tech.*

A famous brand Greek yogurt producer has installed an Automated Storage and Retrieval System (AS/RS) with Warehouse Management Software (WMS) at their plant in Johnstown, NY. The single aisle AS/RS handles storage and order picking in the 35°F cooler warehouse. Originally designed to store 1600 pallets, the AS/RS was recently expanded to 4100 pallet positions.

The yogurt producer firmly believes in automation as a means of competing efficiently, and maintaining product safety. Their 3 other plants in Greece are substantially automated.

Designing for growth in a 33' high warehouse was only one of the client's objectives. Others included buffering the product from manufacturing, full pallet movement, case picking, and buffered pre-picked material back into the AS/RS for future truck loading. It handles individual orders, distribution center orders, and combinations of both. They pick just in time and days in advance. The AS/RS consists of one Storage/Retrieval Machine (S/RM), racking, conveyors & gravity flow pick lanes.

Growth of 150% has been managed by extending the crane aisle for more storage lanes, and

increasing the depth of those storage lanes. The expansion area's cubic space above the new pick lanes has been extended to 11 deep on levels 2 and up, thereby providing an additional 509 pallet storage locations (26% more storage) in addition to the 1,960 from the crane aisle extension.

Our modular WMS controls all product movements in the warehouse, including order picking. It interfaces with portable RF equipment carried by pickers in hip holsters, bar code scanners, label printers and more.



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