

PRODUCTIVITY SOLUTIONS FOR DISTRIBUTION, WAREHOUSING AND MANUFACTURING

Supplement to:

MODERN MATERIALS HANDLING®

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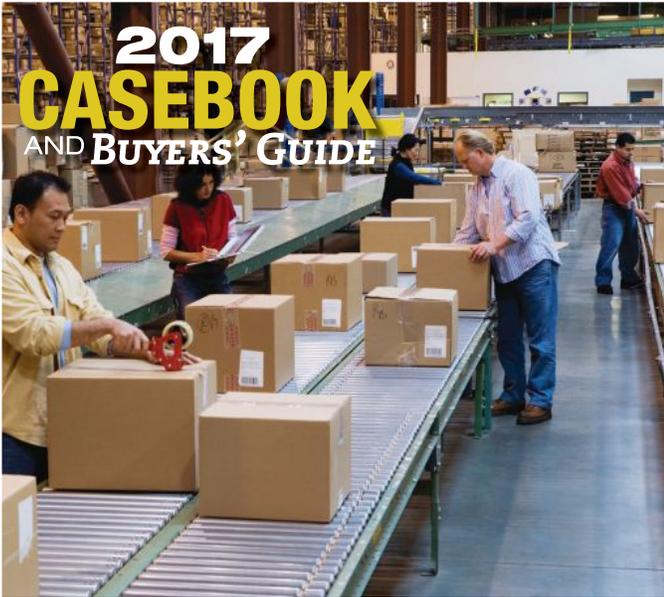
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2017 CASEBOOK AND BUYERS' GUIDE

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PRODUCTIVITY SOLUTIONS FOR DISTRIBUTION, WAREHOUSING AND MANUFACTURING



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400,000 units daily, Destination Maternity's WES orchestrates simultaneous execution of the company's processes—from receiving and inventory management through order fulfillment and shipping.

As it integrates complete WMS and WCS functionality into one comprehensive system, the WES also features a waveless order fulfillment methodology that dynamically deploys in-motion inventory, while assigning labor and equipment to continuously fill orders as processing resources become available.

Furthermore, the system's innovative design eliminates the manual picking process and associated batching that is found in traditional fulfillment operations and replaces it with a fully automated solution, in which single SKU totes are automatically delivered directly to sorter induction, as required for order fulfillment.

Beyond realizing a 36% reduction in labor and a 7% reduction in freight charges, Destination Maternity has also seen system-related improvements, including an 80%, 55% and 240% increase in efficiency in its

receiving, wholesale picking and e-commerce fulfillment processes, respectively.

In addition, the new system dramatically improves throughput, capacity and time to fulfillment. It is flexible and dependable and, as a result, has enabled Destination Maternity to take a more strategic approach to merchandising, marketing and product development.

Invata Intralogistics
860-819-3200
invata.com

JRac integrates supply chain automation in two separate DCs

Warehouse technology cost effectively resolves a small-scale distributed order management issue.

You can derive significant competitive advantages by operating a distributed order management (DOM) network that links two or more DCs into a single, integrated platform for warehouse management systems (WMS), transportation management systems (TMS) or labor management systems (LMS). However, the implementation of lean logistics technology across multiple sites has been largely out of reach financially for small businesses. But, low-cost technology transfer, supported by flexible, warehouse execution systems (WES), can work for some small-scale operations.

JRac carries a deep SKU profile of specialized parts for the industrial power wash equipment market, covering tens of thousands of hard-to-locate replacement devices. The company recently integrated supply chain auto-

mation in two widely separated DCs.

With this SKU profile in mind, JRac's CEO Steve Blyth had a vision that "lean" space and labor methods would minimize operating costs within facilities. He also knew there would be operating expense advantages from linking DOM hubs and potential capital expense opportunities—if the right integrator had knowledge across storage system, automation and software boundaries. So, he approached a horizontal and vertical carousel remanufacturer to address the integration of hardware and software solutions.

After surveying requirements with Blyth, the remanufacturer proposed high-density carousel and very narrow aisle (VNA) technology to automate and minimize space. The concept was that horizontal carousel technology would reduce small item

storage space needs, while providing a platform for high speed "goods-to-person" picking methods.

A VNA solution was proposed to minimize pallet storage needs, while the remanufacturer's software offered a hybrid WMS/WES cross continent control package that automates carousel picking and provides RF methods to integrate processes across multiple zones, including the receipt of materials and the transfer from bulk to primary pick locations.

To retain the costs of such technology, the remanufacturer helped JRac implement DOM on a small scale, so it could build a cross facility infrastructure on a tight budget.

Above all else, the remanufacturer's unique ability to deliver products with "like new" warranty, combined with its national parts/service infrastructure and decades of software integration experience, will prepare JRac for years of lean operation across the United States.

AS/R Systems
847-955-0980
asrsystems.com