Automatic High Quality Pallets

Improved Productivity and Reduced Costs

Reduced Training Time for New Workers

Monitor Progress, Status & Pick Rates in Real-Time

What’s different about DPS?

Load Creation Software

The Dispatch Planning System (DPS) is a software package for load creation. DPS integrates seamlessly with order systems and route management software to convert a set of raw order details into an easy-to-use set of pick tickets which describe the contents, how to pick each pallet, and where they go on the truck.

Greatly Increased Productivity

The ability of DPS to automatically generate ready-to-pick pallets yields substantial productivity gains. Pickers no longer have to spend time and effort converting a long list of order items into a set of pallets. All of their time is spent on picking and loading the truck.

Significant Cost Savings

DPS provides two great benefits which result in immediate cost reductions. Training costs (and the lower productivity) for new workers are reduced significantly. The real time status updates of DPS can help reduce overtime costs by projecting the need and type of overtime needed early in the shift. DPS can also help improve warehouse layout for picking.

Increased Fulfillment Accuracy

The pallets generated by DPS are fully accurate tickets based on the orders. Mispicks are significantly reduced. Customer satisfaction is improved and the cost and hassle of returned cases caused by manual translation of orders to pallets is eliminated.

Automated Palletization

The key benefit of DPS is that it can generate stable pallets optimized for picking, truck loading, and delivery fully automatically. Other systems just help a supervisor to design pallets on a computer – DPS requires no supervisor interaction to produce excellent pallets. Considering the number of package types and sizes, stability considerations, and truck bays which may have different sizes, it’s not an easy task to design a high quality pallet. DPS has a proprietary approach that is fast and accurate. This allows the supervisors to spend more of their time on the warehouse floor.

High Quality Pallets

There are a large number of factors to consider in designing a pallet besides stability constraints: location of stock within the warehouse, where the pallet will go on the truck, how to split cases for orders with multiple pallets, customer requirements for offloading, and preferences for which workers may be in different areas. DPS not only creates stable pallets, but high quality ones that account for all these important preferences and more.

Designed for Beverage Industry

DPS was designed specifically for the beverage industry, by a partnership between Advanced Process Combinatorics and customers, to bring the best technology available to meet your needs.
Steamlining Operations with the Dispatch Planning System

DPS integrates with your existing order management system to download all of the order information. The supervisor then selects any set of routes and "palletizes" them into a set of pick tickets with a single click, resulting in hundreds of ready-to-pick pallet tickets. The palletization is fast and accurate with APC's proprietary VirtECS® palletization engine. The tickets can be batch printed and carried to the warehouse floor for picking. Alternately, tickets can be distributed to pickers in real time using the Print-On-Demand module. Each ticket fully describes a single pallet including item quantities, SKUs, route and customer information.

1-1-2007

1730 L9

ABC Grocery
Springfield, OH
123 Pine St

Account #: 173467  Order #: C0423071290

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Pick Tickets – Batch or On-Demand

Print On Demand (POD) is the latest module for DPS. POD assigns pallets and prints work for the pickers on-the-fly. All work is distributed through print stations (kiosks) located on the warehouse floor. Pickers swipe a card to request work and the station prints the next set of tickets to be picked. When done picking the worker swipes again to mark his current pallets complete and get additional tickets. Using the touch screen the pickers can also reprint tickets or mark requested items as out-of-stock.

Workforce Management

A major advantage of POD is the ability to accurately track and monitor the pick rate in real-time – for the whole warehouse or by individual worker. This helps identify ways to improve performance and allows the supervisor to easily see what is happening on the floor.

Insightful Reporting

The POD module can generate a variety of reports that can be analyzed to improve operations. A key benefit of the DPS system is the ability to get accurate information on progress, pick rates and status immediately during the shift instead of days or weeks later.

WHO IS USING DPS?

Our system development was backed by beverage industry partners and tested in several high volume independent bottling facilities.

Bulk Picking
Side Load Trucks
Small Operations (2 million cases/yr)
Large Operations (30 million cases/yr)

New Print-on-Demand Module for Real Time Operations

Distribution of Work

POD allows fine control of how work is assigned. With POD the supervisor controls how tickets are assigned to the pickers by setting the order in which routes are picked, the number of tickets to print for each worker, and the number of pickers working on a given truck. From the picker's perspective he simply swipes and works on whatever is next. The supervisor can monitor completed work, current assignments, and pick rates making adjustments as needed. He can also view individual worker status at any time.

Print-At-Station

POD is the latest module for DPS. POD assigns pallets and prints work for the pickers on-the-fly. All work is distributed through print stations (kiosks) located on the warehouse floor. Pickers swipe a card to request work and the station prints the next set of tickets to be picked. When done picking the worker swipes again to mark his current pallets complete and get additional tickets. Using the touch screen the pickers can also reprint tickets or mark requested items as out-of-stock.

Outstanding Support

Advanced Process Combinatorics, Inc. is committed to providing complete customer satisfaction, providing a complete range of support options through the web, email, or telephone; integration with other warehouse software; consulting services; custom software development and customized palletization.

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