



High Performance Picking System Eliminates Replenishment Labor

Features and Benefits

Dynamic Slotting of SKU's

Automatic Replenishment

Pick to Light Interface

Replenishment Labor Eliminated

Industry Group: Automated Storage/Retrieval Systems (ASRS)



The High Performance Picking System eliminated replenishment labor and automatically re-slotted slow moving SKU's

The warehouse and conveyor systems of a European cutlery supplier were technically outdated. Some of the spare parts were no longer available. Moreover, the profile of the orders received had changed over the years. The average size of shipments had decreased while the number of shipments had increased. At the same time, the packaging variety increased due to the company's growing international orientation.

The company decided to respond to these new market challenges by restructuring the intra-logistic processes in its warehouse and distribution center. The selected supplier was to design and build a completely redesigned central warehouse and distribution center using the existing building structure. This presented the challenge of performing the modernization work without interrupting the day-to-day operations.

A High Performance Picking System (HPPS), an intelligent combination of mechanics and software, met the project requirements. Through the use of the HPPS, customer orders and replenishment of stock are performed quickly, efficiently, and ergonomically.

There are several distinct advantages of the HPPS. The pick faces of the pick-to-light system are automatically replenished with the required

containers, and the storage and retrieval (S/R) machines automatically remove containers and cartons when they are empty or when dynamic slotting of slow moving SKUs is required and beneficial.

The containers are placed directly in a sloping rack position that allows for a comfortable and highly ergonomic access to the containers during picking, thereby reducing pick cycle times. The HPPS incorporates an S/R machine designed with a carriage that tilts the load handling device (LHD) to correspond with the slope of the pick channels.



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