

Datalogic and SPR Packaging



OVERVIEW

SPR Packaging, LLC is an American supplier of packaging solutions – including printed films and converted poly bags. Based in Rockwell, Texas, it was founded in 2006 by a team of experienced flexible packaging managers and associates in order to fill a niche in the market for customer oriented manufacturing and service.

SPR Packaging is part of the Armando Alvarez Group and is a world leader in the extrusion and conversion of a wide array of plastic products and packaging.

SPR Packaging provides superior customer service and cost-effective quality through:

- proprietary film formulations designed for high performance packaging equipment;
- consistent quality that saves operators adjustment time on the production floor;
- fast, dependable order turnarounds and communication;
- warehousing and production forecasting.

THE CHALLENGE

SPR Packaging was searching for an automated pallet labeling solution to meet their immediate and future needs.



The company endeavours to continuously improve and renew its products; for this reason the technical data and contents of this catalogue may undergo variations without prior notice. For correct installation and use, the company can guarantee only the data indicated in the instruction manual supplied with the products.



They wanted to equip their lines with automatic printer applicators, however they also needed a truly automated labeling solution which would interface to their accounting software and automatic wrapper. They have selected a systems integrator with 15+ year of experience in advanced printing and tracking solutions to provide a complete traceability system.

THE SOLUTION

Datalogic specialists first showed the Matrix 410N and ease of set up. The unit was set to read a 2D code on pallets as presented at the stretch wrapper. After the successful installation they used the Matrix 120 unit to read applied labels at the wrapped pallet label applicator.



When the pallet is inserted into the wrapper it could have 1 pallet, or 2 pallets on each physical pallet load. The operator triggers if the load is a single or double stack pallet. Using two Matrix 410N the system reads the barcodes and creates a queue record to track the pallet. If either barcode no reads at the infeed the pallet is flagged as such. It doesn't wrap or get labeled so the lift operator may inspect the pallet for a proper production label and retry.

If the barcodes are read the system writes the wrapper recipe to the PLC and queues the pallet.

If there is a second stack the system will print and apply two labels to the top stack. Pallet labels include customer/order specific data and formats, a unique serial number, and the pallet weight (divided by film impressions for double stacks). After the pallet is verified the data is exported to finalize inventory.

After the pallet wraps it stops at an inline scale and the system reads the weight from the PLC, triggering the first printer applicator. The first label is applied to the lower/single stack, then the system signals the PLC to proceed. As the second label applies a Datalogic Matrix 120 barcode reader verifies the pallet label. If there is a no read the label automatically prints to a manual printer so the lift operator may confirm that a scannable barcode label is facing the warehouse floor.



Pallet labels include customer/order specific data and formats, a unique serial number, and the pallet weight (divided by film impressions for double stacks). After the pallet is verified the data is exported to finalize inventory.

If either printer applicator faults the system will automatically print to the manual printer until the issue is resolved, then it will print to the printer applicator.

Reporting shows pallets in queue, palletizing reports by date and product, weight reports, transaction reports and device health reports.

THE RESULTS

Paul Sikorsi stated, "I have never had such an easy start up. The barcode readers just worked right out of the box and started reading". He was also very pleased with the timely support received during set of the Ethernet protocols.



The end user SPR was very pleased with the results. The system integrator, that has been providing competitive bar code readers for over 17 years, after having experienced success with SPR Packaging has already begun implementing Datalogic barcode readers into the scanning applications offered to their customers.

The ROI on this system is anticipated to be less than 12 months due to more accurate weights on pallets for shipping audits, inventory accuracy, faster throughput, less manual labor and valuable accounting and accountability.

Datalogic is a global leader in the automatic data capture and process automation markets, specialized in the designing and production of bar code readers, mobile computers, sensors for detection, measurement and safety, RFID vision and laser marking systems. Datalogic solutions help to increase the efficiency and quality of processes in the Retail, Manufacturing, Transportation & Logistics and Healthcare industries, along the entire value chain.

The world's leading players in the four reference industries use Datalogic products, certain of the attention to the customer and of the quality of the products that the Group has been offering for 45 years.

Today Datalogic Group, headquartered in Bologna (Italy), employs approximately 2,900 staff worldwide, distributed in 30 countries, with manufacturing and repair facilities in the USA, Brazil, Italy, Slovakia, Hungary and Vietnam. In 2017 Datalogic had a turnover of 606 million Euro and invested over 55 million Euros in Research & Development, with an asset of more than 1,200 patents in multiple jurisdictions.

Datalogic S.p.A. is listed in the STAR segment of the Italian Stock Exchange since 2001 as DAL.MI. More information about Datalogic at www.datalogic.com.

Datalogic and the Datalogic logo are registered trademarks of Datalogic S.p.A. in many countries, including the U.S.A. and the E.U.