

From Our Automation Projects .. Bella Pack



Design and implementation of Automated control system of a double nozzle Pouch packing production line for liquids and solids including servo system for pouch length control. The production line works at a **rate of 50 pouch per minute** as a maximum with capacities **up to 500 grams per pouch** with feeding control using dosing pumps or feeding hoppers.

Also for conductive liquid we use feeding by flow meters and for non-conductive we use servo controlled dosing pumps. All machine movements and different zone temperatures along the production line are controlled by **Siemens SIMATIC S7-1500 PLC** with Camming functions and **HMI Comfort panel**.



Barcode Reading-Banner

Application: Identify pallet load and confirm that it is ready to ship

Challenges: Different types of barcodes are used

Solution: Banner Engineering's VE and ABR Barcode Readers

Benefits: Reliably reads small or complex barcodes, even at large distances or field of views

As pallets are loaded and shrink wrapped, a shipping label with a barcode is attached. This barcode identifies the pallet load and notifies the WMS system that the pallet is ready for shipping.



Description:

The ABR image-based barcode reader scans pallets as they are loaded, identifying that pallets are complete. This ensures that operators know what truck or warehouse location the completed pallet will be directed.

After the ABR barcode reader or VE smart camera verifies the pallet, the pallet is taken to the warehouse for storage or loading dock for shipment.

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Robotic Cell Industrial Barcode Inspection-Banner

Application: Inspection inside a robotic work cell

Challenges: Stopping robotic machinery is difficult and interrupts production

Solution: Banner Engineering's iVu BCR with Remote Display

Benefits: Remote display can be mounted and operational from outside of the work cell

When possible, robots in work cells should not be interrupted if at all possible in order to maintain the highest possible throughput. If inspections need to be performed within the work cell, such as verifying barcodes on boxes placed on a conveyor by the robot, it's best to maintain control from outside the cell.



Description

Since it can be difficult and expensive to stop robotic operations to configure and monitor the barcode inspection process, it's a good idea to install an iVu BCR barcode reader with remote display.

The remote display can be mounted up to 16 m (50 feet) away from the sensor to enable machine operators to easily configure and remotely monitor or troubleshoot the inspection process while the robot is in operation.

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Main Contractor: **ENI – Iraq**