



APPLICATION: Box Palletizing

ROBOT: Doosan Robotics H2515

Problem

The customer aimed to streamline their operational processes because the available space was constrained, and the workers were burdened with a substantial workload.

Requirements

- Must operate in the same space as the workers
- Must take up a minimal footprint of floor space

Solution

Employ a Doosan cobot to handle the palletization of boxes arriving along the rails

Results

- Achieved continuous full-time operation
- Anticipated return on investment within 6 months
- Enhanced productivity due to uninterrupted cobot operation during pallet changes (safety function)
- Diminished instances of musculoskeletal disorders and work-related injuries among workers



APPLICATION: Oil Bottle Palletizing

ROBOT: Doosan Robotics H2515

Problem

The customer aimed to enhance productivity but faced challenges in attracting extra workforce within the present market conditions. They sought to relieve their existing workers from manual and repetitive tasks.

Requirements

- Must be managed entirely in-house

Solution

Utilize two Doosan cobot palletizers, in collaboration with Vention, to support the operations of three production lines.

Results

- Three full-time operators were reassigned to more valuable tasks, tripling productivity
- On-site equipment deployment and staff training completed in just 2 days
- Due to swift implementation, projected payment period is slightly over 1 year



Application: Coffee Bean Box Palletizing

Robot: Doosan Robotics H2017

PROBLEM

The customer aimed to decrease the physical exertion on their current workforce and minimize production duration.

Requirements

- Operate in the same space as the workers
- The desired speed is moderate, yet enhancements in swift turnover and overall productivity are sought.

SOLUTION

Employ a Doosan cobot, in partnership with Vention, to automate the palletization of coffee bean boxes that are conveyed via rails as part of the end-of-line packaging procedure.

RESULTS

- Shifted employees from monotonous box palletizing to more valuable assignments
- Achieved significant bean production with minimal human resources
- Enhanced palletizing precision facilitated prompt deliveries to customer locations, elevating customer satisfaction



Application: Bottle Palletizing

Robot: Doosan Robotics H2017

PROBLEM

Workforce was unavailable due to COVID-19, resulting in a disruption to the continuous product supply.

Requirements

- Upon completing the loading of a layer, a slipsheet should be positioned on the pallet as well
- Speed reduction must be implemented as the operator approaches
- A vision scanner must be utilized to scan packaging for barcodes and product presence

SOLUTION

Employ a pair of Doosan cobots to palletize a dozen sauce bottles simultaneously.

RESULTS

- Adhered to the production timetable and volume requirements
- Able to palletize at a rate of 100 bottles per minute during continuous operation
- Workers previously engaged in palletizing duties were reallocated to other, more valuable tasks



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