



Background

Supplying multiple retailers and caterers, both locally and nationally, Bird Bros produce 30,000 boxes of eggs every week, from smaller, retail sized consumer packs to larger food service and catering boxes.

Scenario

Pushing the environmental benchmark, family run business Bird Bros operate a low carbon Packing Centre. In a bid to automate the egg packing process, eliminate waste and increase overall efficiency, Bird Bros had already installed two new, MOBA MR-12 dual robot loading cells. The twin capabilities of the robotic systems allows for the independent processing of two individual packing lines and Endoline, who work closely with MOBA as a preferred supplier of case erectors, were called upon to install machinery which would manage the flow of formed boxes into the MOBA systems.

Solution

Endoline integrated four of its slimline, 251 case erectors into the packing lines, to work in tandem with the MOBA loading cells. Measuring just 1 metre by 2 meters, almost half the size of traditional case erectors, the slimline nature of the 251 case erectors means that limited factory floor space has been taken up within Bird Bros' factory. In addition, due to the shape of the area in which the systems were due to be installed, Endoline created a layout to work within the restricted space. The company also designed the conveyor layout, installing chain transfer conveyors to make quick 90 degree turns, to reduce the overall length of the system. The 251 case erectors are now erecting and loading four different case formats simultaneously at speeds of up to nine cases per minute. However, with greater speed capacity, Bird Bros now has the flexibility to increase their offering and take on further business if required. The filled packs are then fed through to an Endoline 734, fully automatic random case sealer which was installed within the Bird Bros factory several years ago.

Results



Integrated case erectors in a compact space



Erecting 4 different case formats at 9 cases per minute



Eliminated wastage and reached sustainability goals

"We are delighted with the automated packing lines. Not only has it enabled us to increase efficiency and redeploy employees who were previously working in monotonous, repetitive packing roles, it has also enabled us to meet sustainability goals."

Joe Fox, Technical Projects Manager at Bird Bros

