RMGroup’s egg palletising system provides the perfect end of line solution for any egg processing plant, capable of effortlessly palletising four pallets per hour, equating to over 570 eggs per minute.

The system consists of an ABB palletising robot with a specifically designed bespoke gripper head manufactured to pick up the egg trays as well as the dividing sheets.

The egg trays are picked up using the existing contours in the plastic egg trays while strategically placed sensors ensure the trays are clear of the forks before the robot fully retracts, eliminating the possibility of any breakages.

The robot stacks 288 trays of eggs neatly onto pallets, once a full layer of trays have been placed the robot then places a dividing sheet before palletising the next full layer of eggs on top.

The palletising system has allowed our customers to run their packing operation with a single operator, saving in excess of over £10,000 a year in labour costs.

At RMGroup we offer new and used refurbished robot palletisers to suite our customer’s needs.

For extra piece of mind we are able to support our robot palletising systems with planned preventative maintenance schedule, 24 hour emergency response packages and spares service to prevent any downtime.

ABB Robot System Integrator

- Clear ABB product offerings
- Industry specific knowledge and experience
- Fast and flexible delivery
- Local presence in the market

Options & Features...

- New and reconditioned systems available
- Bespoke programming and operator training
- Planned preventative maintenance schedules
- Pallet magazines/Slip sheet applicators/Top sheets and pallet wrappers
- Full layout drawings following a no obligation site assessment.
- Emergency Response packages

www.rmgroupuk.com
**Case Study**

RMGroup were contacted by a local egg supplier who was interested in automating their existing egg processing line. The system had to integrate with the current grading system allowing them to process and palletise their eggs with ease and at a speed that would dramatically influence their daily productions.

The Mid Wales based farm has around 30,000 Chickens that produce around 24,000 eggs per day. Dealing with such vast numbers they required a fast and reliable solution to the problem. This was achieved through the creation of our egg palletising robot. Designed as an end-of-line palletiser it effortlessly stacks the egg trays securely onto a pallet through the use of a specifically designed head attached to an ABB IRB 6400 Palletising Robot.

The system effortlessly surpasses the speed of the existing egg sorting line, capable of stacking four full pallets per hour. At Genau Hafod farm the system was set to palletise 1 pallet per hour working in unison with the existing systems.

The owner of Genau Hafod Farm was delighted with the end result of RMGroup’s end-of-line Egg palletising Robot, immediately experiencing improvements to the process at Genau Hafod Farm, saving them uncountable time each day, allowing deliveries to arrive at their destination faster than ever.

**Principle of Operation**

The gripper head of the robot has been designed to pick up the trays from the egg processing line accumulator using two forks which slide under the existing contours of the plastic egg trays.

Once a full row of eggs is placed onto the pallet the robot then picks up a dividing sheet using suction cups and places securely onto the palletised eggs.

**Testimonial**

Hywel and Rachael Davies decided that they needed to become more efficient in their egg packing plant by cutting down labour costs, staffing levels and manual handling, giving them more free time to spend running their beef and sheep unit.

“Originally I thought that I would put a new conveyor in that would transport the six stack of trays to the area that we work in, saving us palletising time by not having to walk to the end of the grader for the stack of eggs”

After enquiring and pricing up a new conveyor Hywel and Rachael had second thoughts.

“After much thought we decided that the conveyor would not bring any significant labour or financial savings to our business, so opted against it. We needed something reliable that could cut our staff by half, saving us 50% of our wage bill.

I Spoke to RM Group who I knew had been developing an end of line robot to palletise eggs, after a demonstration at their factory we knew that this was the right option for our business needs and that RM group were just the right people to deliver what we asked for.

RM group were very swift and professional in installing the robot, making sure that every possible failure scenario was covered, this gave us 100% confidence in the robots abilities.

Since the robot has been in full production we have been very impressed by how gentle and smoothly the eggs are moved from our grader to the pallet with precision placing, giving us the opportunity to be more efficient grading eggs.

With the robot it also means that we have been able to run the packing operation with one person instead of two, saving us in excess of over £10,000 a year in labour costs”

-- Hywel Davies
Genau Hafod Farm