SOUTH EAST

Est 1982 **June 2019**

PICKING HOLDS THE KEY

COLUMNIST

MONICA AKEHURST Calving resembled

a foam party

FEATURE

EDITOR'S VISIT

Alex Myatt has set a new goal at her family's fruit farm

NEWS

ADMINISTRATION SHOCK FOR COLLEGE

FEATURE

COTTAGE FARMS A top fruit pack house has significantly invested

Rural Outlook 2019

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developed just five years ago, is currently one of the South East's largest top fruit handling plants, looking after fresh produce from over 30 UK growers, on behalf of Avalon Produce Limited, and out of season Southern Hemisphere imports, to supply one major multiple with around 4 million

cartons of apples and pears per year.

PACKED WITH PRIDE

racking units and end of line automation to keep up with the growing demand for UK fruit as

Top fruit pack house, Cottage Farms, has significantly invested in cold storage, mobile

During peak weeks, which normally fall towards the end of August and beginning of September, when the Southern Hemisphere imports cross over with the English season, Cottage Farms will pack in the region of 100,000 cases, which equates to about 7.5 million individual fruits

With such an impressive tonnage of fruit to look after, Cottage Farms' managing director Chris Browning is always on the hunt for new ways to ensure that each stage of the packing line is running as efficiently as possible. Following a significant grant-aided investment into various site buildings designed to take in and ship out as much volume, as ; and a state-of-the-art Aweta pre-sizer and grading line, in 2018 the company received the green light for two more Rural Development Programme for

England (RDPE) funded projects.

"After hitting all our milestones and surpassing some of our aims from the original grant, we decided to reapply for funding for end of line robotics and a 15,000 sq ft cold store with mobile racking," said Chris. "The grant was awarded on the basis of job creation and as we had proven to be previously successful, it was great to see a continuation of the government's support."



cottage farms

quickly and efficiently as possible.

"Please enter your details and select the

a Sinica machine as I walked through the

entrance of Cottage Farms in Horsmonden.

Kent. While I have filled out many a health

and safety form for site visits, I don't ever

recall being greeted and checked in by a

computer, yet, by the end of my pack house

was an apt introduction and a mere hint at

the modern technology which can today be

found in forward-thinking, efficiency-driven

fruit businesses like the one managed by Chris

Once a common fruit farm feature, the pack

house is now a rare sight in the South East. As

numbers of top fruit processing units have dwindled.

consumer demand and supermarket requirements

have not, and today's modern pack houses are all

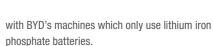
quickly and cost-effectively as possible.

tour, it was clear that this virtual receptionist

member of staff you are here to see," chirped

The BYD machines have an eight-year





"BYD in our opinion is the leading manufacturer in the sector as they only supply electric machines with these batteries," said Chris. "They are 100% maintenance free and require no checking of levels or topping. All the MHE can be charged from flat batteries to 100% fully charged in approximately one hour, as opposed to a minimum of eight hours which is the case with lead acid batteries, meaning the units can run for longer periods. This reduced charging time also decreased the actual number of units we required for the site.'

manufacturer warranty for the batteries, the longest offered in the industry, and with the ability to charge them at any time throughout shift breaks there really is little downtime. There are also no end of contract disputes over dilapidated battery function, no costs for deionised water or labour costs for filling, no acid spills or replacement cells costs, no need for spare batteries or extra units to cover workload when machines are being charged and there are no heat or emissions created during the charging cycle.

These factors all help with overall cost reduction and with 98% charger efficiency, they also reduce the company CO_a footprint. After successful on-site trials to confirm the equipment was by far the best for their requirements, Cottage Farms made the decision to go with the BYD products, supplied and maintained by Stacatruc on long term hire.



DOUBLING ON-SITE COLD STORAGE

Aside from wanting to take advantage of the

post-Brexit, English Apples and Pears' (EAP) goal

to increase the availability of English-grown fruit in

the cold store as soon as possible, to ensure that it

"Work on the cold store started a fortnight after

be delivered one day and be packed and shipped out

the next. Equally, because we grade product by size

and quality, certain stock might be stored for four or

the grant was approved," said Chris Browning. "Depending on the orders which come in, fruit could

"At harvest time we are inundated with

bins per day. In fresh produce correct storage

desperately needed additional space.

is absolutely key and there were times last year

when the pack house was completely full, and we

After recognising that the business didn't have

about looking at the most efficient way of increasing

cold storage capacity and opted for a mobile racking

"Despite limits from the planning authorities

which meant that the new build could not be taller

successfully doubled our on-site cold storage," said

Chris. "The store will be kept at between 1 and 2°C,

than existing structures, the new cold store has

sufficient facilities during peak times, Chris set

ex-orchard fruit and are often grading 300 to 400

the supermarkets, spurred Chris to start building

would be ready in time for summer 2019.

five weeks

grant funding before it potentially disappears

END OF LINE AUTOMATION GRADING PACKING

Mpack UK is a British company working in the produce industry. We help growers and packers in the fruit and vegetable industry meet the challenges of an ever changing and competitive market.

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pallets will be stacked three high and there is a

moveable aisle which means there is room for 1,470

To maintain the store temperature, JD Cooling,

the UK's largest independent supplier of bespoke

cooling, power and control systems, has provided

refrigeration system which has also been designed

The chilled water system utilises an air-cooled

long-term solution with improved energy efficiency.

reduces the quantity of refrigerant covered by F-Gas

To suit its external position, JD Cooling's solution

is complete with weatherproof housing, aluminium

clad pipework, anti-vibration mounts and cooler

control panel to house the digital thermostat, and

To position the pallets accurately on the racking.

Chris has added several BYD reach trucks to his

fleet material handling equipment (MHE). Working

with Stacatruc Limited, Cottage Farms was looking

for an efficient range which could reduce downtime

and overall machine numbers. Jon Monteath at

Stacatruc felt that the best way to achieve this

evaporator and defrost controls.

DECREASED DOWNTIME

legislation compared to a typical direct expansion

liquid chiller operating with low GWP (Global

Warming Potential) HFC refrigerant to provide a

The use of a secondary or chilled water circuit

to provide good ventilation to ensure all products

are adequately cooled.

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"Building Hi-tech storage solutions for Cottage Farms"



DESIGN

BUILD

cottage farms





COMMUNICATION SECOND TO NONE

When it came to find the right contractors for the new project, Chris Browning took a slightly different approach than normal, opting to look at the construction, steel frame work and building separately to refrigeration and electrical work.

After receiving the necessary three quotes for the RDPE grant application, Wealden AM was appointed as the main contractor, led by Rob Kendall. As well as constructing the steel frame, Wealden AM also oversaw the groundworks, which were carried out by Torran Construction and electrical work, which was completed by Orchard Cooling. Cottage Farms then dealt directly with JD Cooling who put the refrigeration in place.

"The contractors all worked exceptionally well together," said Chris. "The communication was second to none and we organised a weekly meeting with everyone which meant that the project ran smoothly. Nick Field, Wealden AM's contracts manager, has been very good at addressing any issues quickly and making sure there were no

A busy pack house with non-existent quiet periods, Chris was careful to choose contractors who were well seasoned in the agricultural sector and capable of working around the site.

"From day one. I was clear that we would not be stopping the pack house for any construction work," said Chris. "We lost the main access to our grader for a few months, but we manage to plan around that. There would never have been a good time to install the automated packing line either. We had to : separate and sheet a section of the pack house and then it was a case of handing over each machine one at a time "

INCREASING VOLUMES

In December 2018, work began on the second project; the end of line automation equipment which will allow the team at Cottage Farms to pack at a consistent speed and will enable them to increase outputs in the long-term.

"We are still in the commissioning stage and have been making some small adjustments over the last few months to make sure that the machine can work with various fruit sizes and the different pack formats required by the supermarket," said Chris. "The eventual goal is to put product down the line at : is there a requirement for one of the packhouse a rate of 75 packs per minute, which would make a huge difference to the business."

Supplied by Oxfordshire-based Mpack UK, in partnership with MAF Roda and Egatec Packaging,

end of line automation has been added to the existing flow wrap packing lines. Three end of line case packers, including automated case destacking and three palletising units, with strapping have completed the automation of the packing lines.

The new equipment allows Cottage Farms to feed its flow wrapped apples to a bespoke case packing system, creating, then lowering, a full layer of apple packs into a transport tray. The system has been designed to allow maximum flexibility between multiple packing formats and pack counts, as well as different tray sizes, which are typically 600 x 400 and 400 x 300.

Once trays are packed, they are transported via conveyor to a fully automated palletising system. This system will build a full pallet of trays then forward the full pallet to a strapping machine to complete the process. Again, the pallet movement is all automated via a transfer conveyor which will move the full pallet to the strapping machine and bring empty pallets to the system ready for the next trays. Only once the full pallet has been strapped team to transfer the pallet from the packing area to dispatch or storage.

"Having known Chris for a while, he invited me to look at his ideas for complete



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automation for his packing lines," said Steven Mace, director of Mpack UK. "Chris had some bold and exciting thoughts, so we decided to combine automation equipment from two of the sector's leading manufactures, MAF Roda Agrobotic from France and Egatec Packaging from Denmark, This allowed us to offer a first-class solution to the challenge set to us, such as the needs to improve efficiency, reduce the need for agency 'top-up labour' and improve product handling, which Chris had outlined as priority elements. The new equipment has not only fulfilled this but also offers excellent value for money and efficient use of space"

KEEPING COSTS UNDER CONTROL

As well as increasing the fruit handling capabilities, the new automated end of line system, has seen the number of packing staff on these lines reduce from around 20 people to just 12, when all three lines are in operation.

Across the site Cottage Farms currently employs

the technology has, and will continue to, allow us to increase the volume of fruit being process which means that we are employing more people for

the business

quality control, in the warehouse, and to look after administration and logistics," said Chris. "Since we installed the end of line robotics, we have taken on seven members of staff, but only one was a packer,

around 90 people, who look after around 85% of

brought in when required. As well as not having to

worry about the availability of top-up labour from

agencies, which has been getting increasingly

difficult, with the ever-rising cost of wages, this

long-term packing costs under control and has

new technology is helping Cottage Farms to keep

allowed them to invest in personnel in other areas of

"While the machines have allowed us to reduce

the number of people needed on the factory floor,

the workload, with 10 to 20 agency staff being

the rest have been split across the business." In the next few weeks, Chris will be taking

delivery of the first of two highly anticipated MAF Roda Fastpack tray packing robot. The new equipment will be packing all of Cottage Farms' loose apples into trays. Also supplied by the team at Mpack UK, in partnership with MAF Roda, the new Fastpack robot is designed to pick individual apples using vacuum and place them on an open tray. By focusing on fruit colour and stem orientation, the robot delivers a perfectly presented, uniform layer of apples ready to be boxed.

COTTAGE FARMS

"The new loose packing machine will process 240 fruits per minute and will allow us to double our capacity to 1,600 per day on a standard shift," said Chris Browning. "The developments into the Cottage Farms pack house and the technology we invest in to improve efficiency is on-going all the time. With better long-term storage, the UK top fruit season is increasing and as that is crossing over with the early Southern Hemisphere fruit, we need to ensure that the pack house can efficiently keep up with these volumes."

