

Company Overview & Technical Capabilities



Perry of Oakley Ltd.

All equipment supplied is manufactured to a high quality standard within the United Kingdom.





Perry of Oakley Ltd. are the UK's most experienced manufacturer of materials handling & drying equipment. Perry's experience and in-depth engineering knowledge is the strength. When purchasing a Perry product you are buying a quality made British built product that is backed up by a third generation, 70 plus, strong family owned, highly experienced company. Over the last 70 years Perry have worked with a number of reputable companies; including Woldgrain Storage Ltd., Openfield & Fengrain letters of recommendation are available.

Perry are the only UK company that manufacture a full range of both handling and drying machinery. The handling equipment is capable of capacities from 8tph (agricultural specification) to 1000tph (industrial specification) and includes elevators, chain and flight conveyors, augers/screw conveyors, aspirator pre-cleaners & much more. Two types of drier are manufactured by Perry; the Savannah Series continuous mixed flow drier and the belt drier, which is suitable for drying non-granular products.







Perry Equipment

Chain & Flight Conveyor







- Capacities up to 60tph based on wheat at 750kg/m³ suitable for up to 10,000 tonnes per annum.
- Heavy duty specification. 3mm thick base and 2mm thick sides (thicker options available).
- Perry heavy duty precision roller chain with deep faced flights as standard - ideal for handling cereals, pulses and granular products. This also means that there is no metal to metal contact.
- Reliable 90 degree direct drive gear unit as standard.
- V belt drive to shaft mounted gearbox as an option.
- Durable galvanised steel construction.
- Steel plate chain with breaking strains of up to 34.3kN.
- Dimple style joints for high mechanical strength and good alignment of sections.
- Three piece trough construction allows base to be thicker than the sides providing a longer life.
- Deep flights mean most conveyors are suitable for inclined applications.
- These conveyors are supplied as standard in modular lengths with loose inlets and outlets to allow faster delivery.
- Inclined conveyors can be used at angles from up to 90 degrees.
- Also with the use of a cable span brace any conveyor can span 12m unsupported.
- Pneumatic or motorised outlet options.
- Brush gear available to reduce carry over.
- Cleaning flights available for seed handling applications.
- Cup flights available to handle carry over when end outlets have slides fitted.



Belt & Bucket Elevators





- Capacities available from 11 to 150tph based on wheat at 750kg/m³.
- Single and double lift models available up to 80tph.
- Durable galvanised steel finish.
- V Belt drive to shaft mounted gearbox.
- Optional 90 degree gear unit drives available.
- Slatted pulleys fitted as standard help reduce build-up of materials on pulleys.
- Low stretch rubber oil resistant EP belting standard.
- Gearboxes prefilled with lubricant for easy installation.

Model 220 and 440 Elevator

- This elevator is specifically designed to offer a high specification single and double lift elevator at a very competitive price.
- It has capacities up to 80tph.
- Head and boot shell 3mm thick.
- Heavy duty welded construction hot dip galvanised head cap.
- Range of speeds to provide centrifugal, slow centrifugal and gravity discharge.
- Master cup belt tensioner mounted on the cup belt for easy joining and tensioning.

Model 200, 280 and 560 Elevator

- This elevator is specifically designed with a very low boot inlet height and short head. It is ideally suited to being used in old installations and where space is tight.
- It also has a slower belt speed making it kinder to some products.

Model 330 Elevator

- Single lift belt & bucket elevator.
- High capacity up to 150tph.
- Heavy duty construction.
- Belt tension via adjustable boot pulley.
- 5mm thick head cap.

All elevators are available with an access platform with ladders and hoops meeting all safety standards.

All elevators can have options to make them suitable for handling seed products.



Tubular & U-Trough Screw Conveyors





- Standard diameters from 150mm to 1000mm. Larger diameters on request.
- Stainless steel / galvanised steel / mild steel powder coat painted construction options.
- Flighting options: various thicknesses, ribbon flight, reduced pitch, tapered, mixing, hardened or paddle flights.
- Drive configurations to suit every customer's needs.

Tubular applications:

- Inclined augers up to vertical.
- General conveying.
- Intermediate outlets available.
- Agricultural, industrial or biomass handling.
- Control of the discharge of hopper bottom bins.
- Suitable for stop / start operation.

Screw applications:

- Intake pits using inverters to control the speed and flow rate.
- Single or multiple bin dischargers.
- Mixing or damping applications.
- General conveying.
- Intermediate outlets available.
- Agricultural, industrial or biomass handling.







Savannah Series Continuous Mixed Flow Grain Driers





- Heavy duty commercial specification grain drier built to BS6399 and BS5950.
- Widths from 2m to 6m single and 12m dual column with capacities from 5 to 150tph.
- To promote consistent movement of the grain, all Savannah Series Driers are fitted with our highly efficient, fully galvanised, pneumatically controlled shutter discharge (with phosphor bronze bushes on all wearing parts). All driers have pneumatic shutter discharge to ensure even movement of crop across the whole bed
- The grain column has a completely ledge free design to reduce dust and chaff residue. The tapered air ducts promote even air flow and uniform drying across the whole grain column.
- Variable cooling section so you can change from minimum to maximum cooling by using control levers from ground level.
- 25% to 30% of the drier is used for cooling the crop before it goes to store. This helps with preventing deterioration of the grain when in store. Additional ventilation in store will still be required.
- Touch screen PLC control interface with mobile phone app for monitoring and controlling your drier remotely. Receive status updates, warnings for alarms and change settings wherever you are over the internet.
- Automatic grain moisture control system. This uses temperatures at the top and bottom of the drier to monitor incoming and outgoing grain moisture changes and control the drier discharge speed accordingly.
- Inverter controlled fans for ease of control when drying light crops and for energy saving.
- Automatic crop set up page. Select the crop and the control panel will set all temperatures and fan speeds to suit.
- Connect the drier to the internet allowing UK engineers to access the panel for diagnostics or adjustments while you watch the screen.
- Burner choices are diesel, kerosene, gas, steam, coal using heat exchangers or biomass heat sources as options. Direct or indirect fired.
- Tried and tested design with years of proven track record.
- We have our own dedicated research and development drier at a grain cooperative. This gives us access to a drier operating under real life conditions and the capability for extended test runs for all new product developments and to enhance our R&D capabilities.



Perry Belt Drier





The Perry Belt Drier is ideally suited to drying almost any non-flowing product. Popular applications have included biomass, anaerobic digestate, grass and seeds.

The Perry Belt Drier is ideally suited for these materials:

- Wood chip
- Wood shavings
- Wood pellets
- Other feed pellets
- Saw dust
- Biomass straw
- Miscanthus and bagasse
- Herbs
- Combinable crops
- Beans and soya beans
- Shredded recycled matter
- SRF/RDF
- Digestate
- Flaked maize
- Nuts
- Fruit and fruit slices
- Compost
- Cotton rejects
- Extruded pet foods
- Finely ground wet chips
- Grass
- Grass seed
- Orange peel
- Pulp granulates
- Solid shredded waste
- Granular and shredded plastic
- Poultry manure
- Lucerne
- Alfalfa

KEY POINTS

- Fine mesh drying belt.
- All galvanized construction stainless steel as an option.
- Multiple heat sources available including biomass, steam, oil, kerosene or gas.
- PLC touch screen panel with internet connectivity.
- Levelling device.
- Modular construction.
- Rotary brush to clean belt.
- Various widths up to 3m available.
- Designed and manufactured in house.
- Optional cooling section.



3D CAD Plant Design







2D CAD Plant Design



- Perry of Oakley Ltd. have over 70 years' experience in the grain handling & drying industry.
- Full site surveys can be carried out.
- Full design of the site available.

Machine Design



- Perry of Oakley Ltd. have invested in the very latest CAD CAM • technology, including three dimensional design facilities and the latest fully automated punching and forming machinery.
- Many of our engineers are ex Carier engineers.
- We have a fully operational test drier based in Cannington which allows us to test our latest design features to the full extent before releasing any new products to our customers.
- All of our machines are designed using high quality materials to British standards.





Manufacturing Capabilities

All equipment supplied is manufactured to a high quality standard within the United Kingdom.





All equipment is designed and manufactured in the purpose-built factory in the South West of England. With a team of specialist engineers, Perry have offered full solutions for industries such as farms, commercial grain stores, seed plants, flaking & feed mills, digestate plants, biomass handling & drying systems and much more.

We have two state of the art punching machines, four folding presses and a series of dedicated welding bays, allowing us to produce the majority of components at our manufacturing facility. All of our products are designed and manufactured using high quality galvanised steel and are produced to British standards. Each machine goes through rigorous quality control ensuring your machine arrives in the very best condition.

Perry of Oakley Ltd. stock just under £1,000,000 worth of spares, meaning any breakdowns are reacted to instantly, reducing the level of downtime. All Perry products are designed and manufactured in house, including the touch screen PLC control panel.







Installation

Zimbabwe











Installation

Chichester











Aftersales

- Comprehensive part stock.
- Immediate shipment.
- Highly trained installation engineers to support our dealer network.
- Dedicated technical support line that is available 24/7 during harvest season.
- Specialist service engineers that ensure your machines are in full working order.
- Dedicated sales managers available to help progress your plant when required.
- Remote connectivity to control panels to diagnose faults quickly and easily without requiring a site visit.





Company History Perry of Oakley Ltd. was founded in 1947 by Tom Perry, a farmer's son, Who offered a mobile repair and manufacturing service to local farmers and

businesses in the Oakley, Basingstoke area of Hampshire.

Working from home he converted an Austin 12 car into a mobile workshop, the back seat was replaced by a bench & welder. He travelled all over the country & sleeping in a tent if away from home repairing farm machinery, re tubing traction engine boilers, welding combines & binders in the field.

In 1949 Tom Perry designed and built our very first belt and bucket elevator with a capacity of 5 tph. 1949 also saw the introduction of our first grain cleaners. These early cleaners were equipped with mechanical sieves and aspiration to lift off dust and light rubbish.

During the early 1950's many new farm mechanization aids were designed by Tom Perry and manufactured in Oakley. These included tractor mounted buck rakes, trailers, dust reduction systems for

and jog trough grain conveyors driven by petrol engines or electric motors. These conveyors had capacities of up to 5tph, as capacity requirements increased the first chain and flight conveyors were developed. These conveyors were the fore runners of the conveyors that Perry's currently design and manufacture with capacities up to 650tph.

In 1952 the first factory was built in Oakley it measured 60 foot x 40 foot.

In 1955 our first continuous flow grain drier was manufactured also with a capacity of 5tph.

The business steadily developed based on its reputation of delivering reliable, well-engineered conveyors and bucket elevators during the early 1950's. Export sales of Perry's

and weighing hoppers to the range. The conveyor range was expanded to include curved and inclined conveyors and flow and return types.

In 1974 a brand new purpose built manufacturing facility was built in Oakley Basingstoke.

During the next 16 years the business continued to grow.

In 1990 the business had expanded sufficiently under the direction of Tom's son Nigel Perry to require larger premises and a relocation move to Honiton in Devon was made.

The following year Nigel's son, David, joined the business having achieved a First Class Honors degree in engineering.



Since October 2007 when David Perry took over as Managing Director, Perry's have continued to expand and plan for the future. Investing in the very latest CAD CAM technology, including three dimensional design facilities and the latest fully automated punching and forming machinery.

All Perry products are designed and manufactured in Perry's purpose built facility in the West Country using a depth of knowledge acquired during more than 70 years of business.

We have a large engineering and design department and have a very active research and development program. We provide expert technical support for our machinery worldwide and we stock one of the most comprehensive spare parts inventories in the trade.







Case Studies Woldgrain Storage initiate phase 3 of **Project Valiant**

Woldgrain Storage based at Hemswell Airfield, Lincolnshire was established in 1980 to store grain on behalf of its founding members. The original scheme had 20,000 tonne storage and one dryer accompanied by 60tph handling equipment. The main products that Woldgrain handle are oilseed rape, barley, wheat and oats. Their expected throughput each year is between 85,000 tonnes and 100,000 tonnes.



With the success and an increase in membership in recent years the capacity has been increased in stages to 57,000 tonnes



of ventilated storage with a total of 2 driers and 2 off 250tph intake systems. Further increases in membership required extra facilities hence Project Valiant Phase 3 has taken place.

Project Valiant Phase 3 comprised of a further 26,000 tonnes of silo storage, carefully arranged with varying size silo's to fill in several unused plots on the limited size site. By initiating Project Valiant this represents a further important step along the road to achieving Woldgrain's ultimate goal of a fully developed store of 85,000 tonnes.

Over a number of years Perry have worked with both GAME Engineering & Jessops Construction to install several machines at Woldgrain, including conveyors that were used for filling the original silos in 2012.

This year more new Perry machines were installed. GAME Engineering designed the layout and scheme and installed the equipment whilst Jessops Construction were the main contractors who Perry supplied & installed the drier for. The new



installation included a 250tph horizontal chain & flight conveyor intake, a 100tph and a 250tph horizontal chain & flight conveyor, a 100tph curved combination chain & flight conveyor, a 100tph and a 250tph belt & bucket elevator, screw dischargers & screw conveyors and an M618 80tph grain drier with PLC control panel.

Woldgrain is now able to intake up to 750tph and boasts 1 Perry drier, 7 Perry screw conveyors / bin dischargers, 34 Perry industrial specification conveyors, 2 curve combination industrial specification conveyors and 4 industrial specification elevators.

All of Perry's conveyors are made from durable, heavy duty galvanised steel and are available from 3 different ranges. The agricultural range is capable of capacities of



up to 60tph, the heavy duty agricultural range is capable of up to 120tph and the industrial range will comfortably cope with up to 600tph. With the 3 ranges available this enables Perry to tailor each machine to suit the customer's needs, this has included the machines installed for Woldgrain.

The new 80tph drier installed at Woldgrain is controlled using Perry's drier PLC panel is a 12" touch screen control panel that is simple to use and easy to follow. It has been designed & programmed in house and each panel is customised to each drier that is sold. There are over 70 alarms and messages allowing you to understand quickly and easily what is happening in your drier. When the panel is connected to the internet text messages and emails can be sent to set numbers and addresses to give regular status reports on the drying process.



Flaking Mill Upgrade

Perry of Oakley Ltd are the UK's most experienced manufacturer of materials drying & handling equipment. Established in 1947, last year marked 70 years of successful installations of their British made machines. They export their machines globally and are well represented with a network of dealers & specialist engineers worldwide.



Perry of Oakley Ltd are best known for their grain handling and drying equipment, and are well established within the agricultural industry, however they have also provided solutions for many other industries including; coal, minerals, biomass (including wood chip, sawdust, shavings & pellets), sewerage & sludge, digestate, rubbish/ refuse, grass & many others. The relatively recent launch of their Belt Drier now allows them to provide other industries with fast, efficient and cost effective drying solutions.



Perry of Oakley Ltd recently provided a company with a drying and handling solution for a commercial feed plant that produces flaked maize for dairy cow feed. The installation has been completed over several stages in order to not disrupt the production of the flake.

The company needed to increase their output from approximately 5tph of dried and cooled, and 9tph undried flake to 25tph of dried and cooled flake. They had 2 existing lines, LINE 1 a full flaking, drying & cooling line and the other, LINE 2, a flaking line only, the undried flake had a poor storage life and didn't allow the company to produce a stock pile. With no stock pile, when the flaking line malfunctioned they quickly found themselves running low on feed stock.

Stage one of the upgrade involved increasing the input to the tempering bins in order to keep the planned and existing flaking lines fed with sufficient raw material. A new line between the dry bin & the tempering bins was added. From the dry bin a 10tph chain & flight store conveyor takes the corn through an aspiration unit, cleaning away

any light impurities. An auger then feeds a 12.5m belt & bucket elevator, which in turn feeds a milling separating machine, another aspiration unit and then a de-stoner.

Perry's range of belt & bucket elevators are capable of capacities of up to 1000tph up to 30m overall height. As standard Perry's belt & bucket elevators are manufactured from heavy duty, durable, galvanised steel. Perry manufacture three standard ranges of bucket elevators suitable for agricultural, commercial & industrial use. With a wide range of optional extras available, each one is carefully designed to suit each customers' requirement, ensuring that every machine manufactured is fit for purpose.







After the de-stoning process the kernels are taken via another belt & bucket elevator, through to a highly-sophisticated dampening system to take the moisture content from around 11% to 18%, ensuring the corn is ready for dampening. The dampening system comes with automatic moisture control & water dosage. It is a stainless-steel measuring channel with online temperature, moisture & hectolitre weight measurements.

A series of belt & bucket elevators and chain & flight conveyors then transports the dampened corn to tempering bins. The tempering process then takes between 8 & 10 hours.





Perry supplied and installed most of the equipment within the new pre-dampening line, including sourcing and installing the specialist machinery. They were able to adapt the existing machinery to suit the new system currently installed, helping to keep costs to the customer to a minimum.

Stage two of this installation was to install a third flaking line (LINE 3). The new flaking line takes the tempered kernels via a pre-existing belt & bucket elevator through a new bullet type magnet, which removes and metallic impurities ensuring the pin rollers within the flaking mill are not damaged. An existing conveyor then feeds a new store conveyor that is connected to a surge bin. The store conveyor is equipped with electropneumatic outlets, which allows the surge bins to call for the kernels as and when they are needed. The surge bins then feed a steam chest, which cooks the kernels and feeds them into the flaking mill.

Perry's range of store conveyors are capable of handling capacities of up to 1000tph and are

all manufactured using highly durable galvanised steel. They come in widths from 7" right up to 1m wide. There is no metal to metal contact on any of the chain and flight conveyors, helping to increase the longevity of the conveyors. A range of chain speeds are offered to suit various different products, ensuring minimal damage to the product while being conveyed.

Once the corn has been flaked, the flakes are then discharged directly into a Perry Belt Drier, which takes the moisture content of the flakes from 23% down to 11% by drying and cooling the flakes, which gives the flakes a much longer storage life. The customer installed a 10tph belt drier, but currently only requires it to output approximately 8tph.



Flaking Mill Upgrade Continued



The Perry belt drier has proven to be an effective tool for drying flaked maize as, unlike other driers, air is drawn down through the product bed, meaning there is minimal product lift. There are also no slats or chains to come into contact with the product, meaning there is minimal product damage during the drying and cooling process. The consistent air flow within the belt drier is aided by the fact that there are no louvres or perforations to become blocked, this also means that in this particular application the Perry belt drier requires less frequent cleaning than that of its competitors.

On discharging from the drier, the dry flakes are deposited into a new chain & flight conveyor that feeds directly into an existing belt conveyor, which in turn takes the dried flake in to stores. Perry experienced engineers were able to supply and install the full flaking line, including the surge bin, steam chest and flaking mill along with adapting the existing machinery to ensure the whole process runs efficiently and smoothly.

With the new flaking line installed and working efficiently, the third stage of this installation involved shutting down LINE 2 in order to add a belt drier to dry and cool the flakes after the flaking process. Because the Perry Belt drier installed in LINE 3 had proven to be a lot more efficient and required a lot less maintenance than the existing drier in LINE 1 the customer opted to install another 10tph Perry Belt Drier.

The second Belt Drier discharges in the same manner as the first, including feeding the same

belt conveyor that takes the dried flake to stores.

By improving the pre-tempering line, adding a whole new line and improving the second line Perry have now increased their customers overall output to an average of 25tph. This has allowed the customer to meet their ever-increasing demand and allows for further growth. They also now have a stock pile of flaked maize, which reduces the pressure on all 3 lines, allowing them to work under their maximum output.



Perry of Oakley Ltd. can provide handling equipment up to capacities from 8tph up to 1000tph suitable for full commercial use. Industrial specification handling available includes; chain & flight conveyors (horizontal, inclined & curved combinations), mechanical reception pits, belt & bucket elevators, belt conveyors, twin trace conveyors & augers/screw conveyors. All of their machines

are manufactured to the highest standard using the latest engineering and manufacturing technologies.











Scan this QR Code or visit www.perryofoakley.co.uk/flaking-mill-equipment to find out more about our range of flaking & milling equipment



Organic Feed Production for Lloyd Maunder (Agricultural Division) Ltd.



Project objective:

To change from purchasing organic feed to in house production for all the Lloyd Maunder organic reared products.

To facilitate this it was decided to accommodate an organic production line within the existing mill at Uffculme, Devon.

The Plan:

To implement the scheme was in 3 phases Additional storage, weighing and handling to convey organic feed into the existing mill grinders and mixers.

Add new mixer, grinder and micro ingredients system into the existing mill building with the additional Handling required.

Addition of intake system to convey the organic products into the new storage bins installed in phase one.

Mr Barrs Said:

We have always found Perry's a knowledgeable, well informed company to work with . They stock a good complement of spare parts and the equipment is of a good specification and has given many years of trouble free operation. "











Typical Equipment supplied

30tph 300mm diameter bin dischargers.
30tph 300mm diameter transfer screw conveyors.
30tph 400mm wide curved twin trace conveyor with metering inlet and 7m long,
2 tonne capacity weigh hopper.
30tph model 250 belt & bucket elevator.
30tph 61212 Light industrial chain and flight conveyors.
30tph gravity discharge model 330 industrial belt and bucket elevators.

Specification:

All equipment painted with zinc rich powder primer prior to powder coating to give superior corrosion resistance in damp conditions.

All dischargers with variable pitch flights, 3mm casings, RHP bearings, blockage switches at outlets.

Twin trace weigh hopper conveyor fitted with twin strands of 6,000lb roller chain with deep flights and 30 degree curved drive section to feed into bucket elevator boot.

Model 250 elevator all in outdoor galvanised construction with Super Starco buckets and Nitrile rubber belting.

61212 chain & flight conveyors fitted 4mm thick bases, 3mm sides.

Over the last 10 years the plant has had a very high product throughput & Lloyd Maunder have been impressed with the service they have received from Perry of Oakley Ltd.

Richard Barrs, Engineering Manager, ABN Uffculme who was a key person involved with the design of the plant over a decade ago said recently "We have always found Perry's a knowledgeable, well informed company to work with . They stock a

good complement of spare parts and the equipment is of a good specification and has given many years of trouble free operation."



Full Plant Refurbishment Completed in St Andrews



Mr Henry Cheape approached K. M. Duncan Agricultural Engineers Ltd. in search of a better handling and drying solution for the 600 acres of combinable crops within the estimated 2300 acres of Strathtyrum Estates in St Andrews, Scotland.

Previously, Mr Cheape was running a Farm Fans batch drier that was situated in a building that was some distance away from his storage area. This often resulted in both excessive handling and double handling of his crop, making the process very labour intensive and uneconomical. The system was also worn out and no longer fast enough to keep up with the demands put upon it.

K. M. Duncan Agricultural Engineers Ltd. recommended to Mr Cheape that he installed both Perry of Oakley Ltd. handling equipment and a Perry Drier. Perry and K. M. Duncan decided on a solution that will enable the plant to increase in their drying capacity with greatly reduced handling, making the whole plant more cost effective and less labour intensive.



A new building has been erected at Strathtyrum Estates to house the new intake, drier, aspirator cleaner, elevators and PLC plant control panel. There are store conveyors linking the new building to the older steading buildings which are used for storage, then more conveyors continuing on to a more recent floor store that had been built on the other side of the steading buildings. The layout has been designed so that each of the buildings can eventually be replaced with more modern buildings whilst keeping the same centre line so as not to disrupt the new handling equipment.

From the intake the crop travels up an auger and into a Perry AC60 aspirator pre-cleaner and cyclone. The aspirator pre-cleaner has a capacity of 60tph and has been designed to separate light grains and chaff from the crop helping to improve the quality and cleanliness of the crop. From there, the crop is transported up one of two 60tph Perry model 220 single lift belt & bucket elevators and into a 60tph Perry flow and return store conveyor. The flow and return conveyor deposits the crop into the drier and returns any overspill back to the pit.

The drier selected for the upgrade was a 20.5tph Perry M407 continuous mixed flow drier. All of the Perry grain driers are designed and manufactured in the UK and are designed to BS6399 for wind loading and BS5950 for structural strength with a fully galvanised construction. This particular drier has been fitted with a Light Grain & Chaff Recovery System (LGCRS) which is a pneumatically operated system that periodically discharges chaff and light grain directly into the discharge hopper and back to the main grain flow. The LGCRS has been designed to remove the need to clean out light grains and chaff from the drier exhaust plenum and the pneumatic flap also optimises the airflow when it is in the shut position.



Mr Cheape said "Perry of Oakley Ltd. and K. M. Duncan Agricultural Engineers Ltd. have worked together to provide



me with a suitable solution that allows for future development. Harvest and drying should be much easier as the plant will be able to look after itself with minimal interaction and no double handling of the crop."

The driers pneumatic shutter discharge discharges the crop into a 60tph Perry FC/FE curved combination store conveyor which then deposits the crop into the second of the two 60tph Perry elevators. The elevator transfers the

crop into a short Perry inclined store conveyor which is connected to one long conveyor which spans from the new building, across the road (with span braces to support it) and through the two older buildings which are used as stores.

The whole system is controlled by the Perry PLC Plant Control Panel. This is a 12" touch screen PLC panel has been designed and programmed by Perry engineers and is capable of controlling up to 10 machines as standard along with the drier. The panel displays a mimic of the complete store as well as having multiple automatic routes available, making it simple to understand and use. The drier control within the panel displays a complete mimic of the drier which helps make the Perry driers one of the most simple to operate, that is available on the market today. The panel can be connected to the internet to allow status reports to be sent to selected mobile numbers and email addresses, data logging and remote access. The PLC Panel has over 65 alarms and messages built in to it, helping to keep what is going on with your drier clear and simple to understand. The PLC panel also has a crop set up page which allows you to enter the crop type, intake moisture content and target moisture



content. The panel will then set all the drier parameters and start speed for you, using the data you have put in.

Strathtyrum Estates estimate putting between 1,800 and 2,000 tonnes of malting and feed barley, milling and feed wheat and oil seed rape through the new handling and drying system per year.



Scan this QR Code or visit www.perryofoakley.co.uk/full-plant-refurbishment-st-andrews-0 to watch our video case study on this plant refurbishment





Perry of Oakley Ltd.

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