



COLOUR SORTERS
CONVEYORS
ELEVATORS
CLEANERS
DRIERS
SILOS



SALES & SERVICE
PROJECT MANAGEMENT
SURVEY & EVALUATION REPORTS
INSTALLATION & MAINTENANCE
OF HANDLING & DRYING EQUIPMENT

BACKGROUND

Perry Africa is the newest Sub Saharan company based in South Africa which offers a complete turnkey solution for your storage & handling requirements, regardless of the size or complexity of your brief. Our subsidiary opened in Johannesburg in 2019 & is a wholly owned subsidiary of Perry of Oakley Ltd which is the United Kingdom's most experienced manufacturer of materials handling, drying & storage equipment.

Our location in South Africa ensures our customers have direct access to over 70 years of experience in the manufacture, design & construction of:

Continuous mixed flow grain driers

Belt driers

Moisture sensor systems

Chain & flight conveyors

Belt & bucket elevators

Belt conveyors

Screw conveyors & augers

Aspirator pre-cleaners

Twin trace conveyors

Grain samplers

Grain cleaners

Colour sorters

Bins, silos, square bins

Handling for granular bulk materials

Our services include;

Consultation & advice

Site recommendations

Complete turnkey service

Civil engineering

Plant layout & design

Any size project

Manufacturing

Sub-contracting

Installation

Commissioning of equipment

After sales service options

Spares & repairs coordination

The majority of our equipment is designed & manufactured in our continually expanding purpose built facility in England. This is supplemented by complimentary products from a range of world class suppliers & combines to form one of the most comprehensive ranges of equipment & services in the bulk handling, storage & drying industries.

When you buy agricultural or industrial equipment such as elevators, driers or conveyors from Perry Africa Pty Ltd, it is going to work non-stop, handling thousands of tonnes of

materials, it is reassuring to know that it bears a family name & a brand that is a guarantee of quality & service.

Perry machines are now operating in more than 25 countries across 4 continents. For many years Perry's have built a strong reputation with a customer base all over the world. In 2017 we were recognised as one of the top 100 Small to Medium Enterprises. We back up our equipment with a large stores facility & we have a network of engineering staff who are available for site visits whenever & wherever required.



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PROJECT MANAGEMENT

Perry have been providing drying, handling & storage solutions for farms & commercial customers for over 70 years. Perry's range of equipment has been designed to suit all sizes of projects, from small compact systems to semi-commercial & fully industrial specification.

Complete turnkey solutions

Perry Africa can offer clients a complete turnkey solution which includes: all civil engineering, full site layout, planning, design, manufacture & installation services globally, with the help of a trusted network of dealers & highly experienced local partners. Perry's range of products include conveying & elevating machines, driers, sampling equipment & storage solutions that include hopper bottom bins & flat bottom silos.

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All of Perry's machines are suited to drying & handling a wide variety of granular products including; wheat, barley, peas, canola, sorghum & maize as standard.



ATEX

Safety is absolutely paramount in any environment & Perry's have ATEX Certification to ensure that your employees, premises & equipment conform to the strict requirements demanded.

The Dangerous Substances & Explosive Atmospheres Regulations 2002 (DSEAR) place duties on employers to eliminate or control the risks from explosive atmospheres in the workplace.

INDUSTRIES COVERED

Agricultural

FARMS

Perry's drying & handling solutions start from 8tph. Perry manufacture quality machines that have been designed to stand the test of time.



COMMERCIAL GRAIN STORES

For over 70 years, Perry have provided drying, handling & storage solutions. The range of industrial equipment has been proven to ideally suit semi-commercial & commercial grain stores.



ANIMAL FEED

Perry design, manufacture & install a wide range of Animal Feed handling equipment. Most of our range is suitable for the use of handling animal feed. The Perry belt drier also acts as a cooler if required.

Perry have worked on a wide variety of animal feed projects that have included products such as grass, pellets & meals.



MILLS

Perry can supply a full range of milling equipment suitable for use in flaking mills, feed mills, flour mills & many other industries. This equipment is complimented by our full range of handling & drying equipment that is well proven in the milling industry.

Industrial

AGGREGATES

The Perry range of industrial machines can be supplied to suit the handling requirements of most materials within the aggregate industries. With belt conveyors up to 2m wide & a full range of industrial specification machines, we can provide solutions for any size of installation.

Perry design, manufacture & supply all the relevant handling equipment, while our carefully selected quality suppliers provide the processing equipment.



DIGESTATE

The Perry range of handling & drying equipment has been used in several digestate processing plants. Our Augers & Screw Conveyors are an ideal solution for handling this variable material, while the Perry Belt Drier has proven to be an efficient drying solution.

Perry can help take your project from concept through to design, manufacture, installation & provide on-going support for your chosen Perry products.

Manufacturing

BREWERIES

Fully galvanised or stainless-steel handling equipment options help Perry to supply customers with suitable solutions for the brewing industry.

Most of our equipment is suitable for use within the brewing industry & with a wide range of capacities available Perry are sure to be able to help take your brewing project from design, to manufacture, installation & on-going after sales support.



PELLETING

Working closely with a wide variety of trusted suppliers, Perry can ensure the supply of full pelleting lines (including agricultural, semi-commercial & full industrial lines).

We design, manufacture & supply all the handling & our trusted suppliers provide the processing equipment.



WASTE & RECYCLING

Perry have significant experience in a wide range of applications in the waste handling & recycling sector.

The key to a successful operation is to understand the customer needs in detail including evaluating material samples in a test drier. This ensures the material being handled is fully understood & the optimum handling & drying solution can be developed.



BIOMASS

Perry have specifically designed & manufactured a range of industry leading, handling, drying & storing equipment, tailored to the biomass industries. The product range is suitable for woodchip, sawdust & shavings as standard.

SILOS & BINS

Perry's supply a full range of bins & silos, ranging for small application one-tonne tote bins to fully industrial flat & hopper bottom silos.

All of Perry's bins are available in a wide variety of capacities & have options for 45 or 60 degree hoppers. Each bin comes with a selection of optional extras which helps ensure the bins are tailored to each application.

FLAT BOTTOM SILOS

The extensive range includes flat bottom silos, with 3m to 32m diameter, & storage capacities ranging from 27m³ to 26,000m³. All of the silos within our range come with Magnelis® or Z600 galvanising & S450 steel construction. A wide corrugation profile of 106mm pitch for only 13mm profile depth is standard.

For poor flowing products, such as meals & woodchips, silos with smooth-wall construction are also available offering the perfect solution.

The extensive range & flexibility of the new production facility mean we can offer silos with cladding, either galvanised or powder coated. Silos can be specified to comply with both Eurocode & ANSI norms & take into account local wind, snow & seismic conditions. Perfect for all types for grain storage systems, farm, commercial & intensive industrial projects with high fill, high unload rates as well as high turnover rates.

30 degree pitched roof, which provides integrity while maintaining low overall heights for conveyors & elevators & matches the natural angle of repose for stored materials.



CATWALKS

The standard catwalk feature widths from 1.52 up to 3.4 meter wide. These include a double handrail, 1.1 m height vertically & half-height safety rail supported each 1.5 meters & kickboard. The standard floor of the catwalk is made of galvanised grating sheets 30 x 30 mm.

Alternatively a pre-punched floor can be offered. The structure of the catwalk is produced with galvanised profiled beams. The design incorporates three beams to allow for larger conveyor loads. This also reduces the possibility of sag in the decking. The decking sits directly on top of the beams, using dome headed bolts, to help eliminate trip hazards.



HOPPER BOTTOM SILOS

Hopper bottom silos range from 3m to 13m diameter with either 45 or 60 degree cones. The hopper silo ranges can be manufactured with either a heavy-duty hip ring or with an internal light weight hip ring.

KEY POINTS

Round hopper bottom bin capacities from 1 to 2,500 tonnes based on wheat at 750kg/m³.

Diameters from 3m to 13m.



Silo Ventilation ducting shown above prior to silo being built on top hiding this integral feature.

VENTILATION

We can offer both a flush floor (lateral) systems or full floor aeration systems for flat bottom silos & in-cone aeration systems for hopper silos. For safe storage of grain, we use airflows of 5 to 7m³/hr/ton depending on product stored.

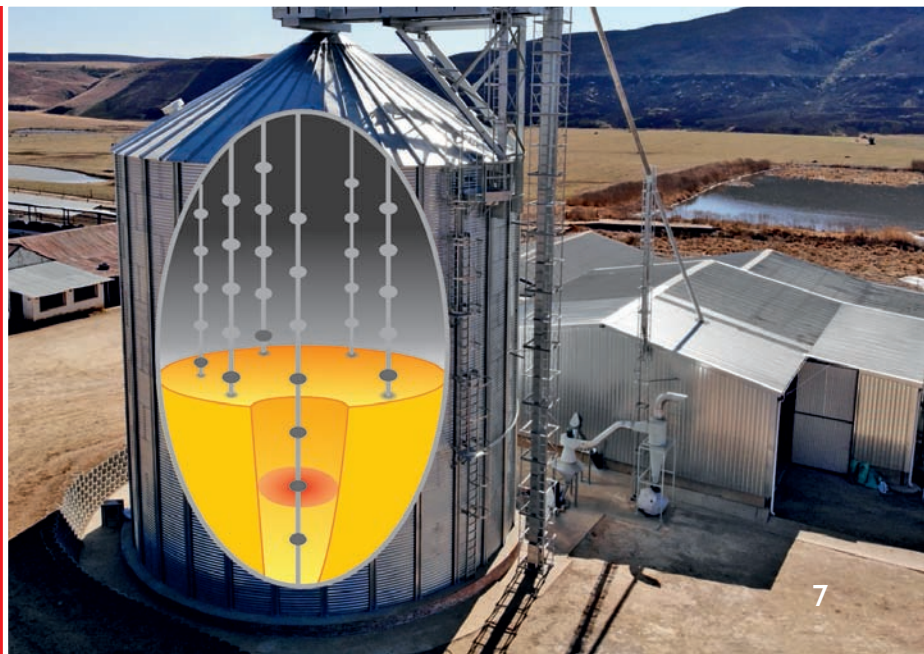
Each flush floor or in-cone system is custom designed to ensure even distribution of air while reducing the air velocity. The flush floor system uses 530mm wide interlocking perforated laterals, number per liner meter changes in accordance with the grain loads imposed.

Different products & silo heights result in different static pressures. We use state-of-art software to calculate the static pressure & ensure the fan selected meets both variables. Also available are complete in-silo drying systems, roof fans & associated equipment.

STORED GRAIN MONITORING EQUIPMENT

Perry are suppliers of a proven range of products for the volume measurement & monitoring of grain moisture, temperature & CO₂ production in silos & floor stores.

*Complete
turnkey
solutions*



DRIERS | SAVANNAH RANGE

With over 75 years of experience, Perry of Oakley Ltd. are the UK's most experienced manufacturer of materials drying & handling equipment. Our driers have been tested & proven on a variety of crops, & in different climates all over the world.

SAVANNAH SERIES GRAIN DRIERS

Ideally suited to granular & free-flowing products such as grain, maize, canola, pulses & cereals. The Savannah is an industrial drier designed for use on both farms & commercial grain stores.

KEY POINTS

Burner & fuel options – diesel, kerosene, gas, steam, coal using heat exchangers or biomass heat sources as options (direct or indirect fired).

Highly efficient axial flow fans – Optional inverter-controlled fans for ease of control when drying light crops & for energy saving.

Access for cleaning – improved access to the Savannah series drier by putting two access hatches in the roof of all 4m, 5m & 6m driers. Large doors for easy access when cleaning the plenums.

The grain column has a completely ledge free design to reduce dust & chaff residue. Tapered air ducts to promote even air flow & uniform drying across the whole grain column.

Discharge – to promote consistent movement of the grain, all Savannah Series Driers are fitted with highly efficient, fully galvanised, pneumatically controlled shutter discharge (with phosphor bronze bushes on all wearing parts). All large driers have pneumatic shutter discharge to ensure even movement of crop across the whole grain column.

Drying light seeds – Savannah driers have optional inverter control of drier fans. This provides convenient control to reduce the airflow when drying light crops. When selecting a light crop to dry on the crop selection page, the drier PLC control automatically sets the appropriate speed for the drier fans. Also, by reducing the drier fan speed when drying, energy can be saved.

Light grain & chaff recovery – the Light Grain & Chaff Recovery System reduces the need to clean out light grains & chaff from the drier exhaust plenum. This is an additional option on all new driers, but can be retrofitted to shutter discharge driers.

Dual column driers – these driers provide the high capacity of a large drier combined with the flexibility of being able to use either half for drying small batches.

PLC control panel – touch screen PLC control interface with mobile phone app for monitoring & controlling your drier remotely. Receive status updates, warnings for alarms & change settings wherever you are over the internet.

Optional dynamic moisture control – automatic grain moisture control system - select the crop & moisture content, & the control panel will set all temperatures, fan speeds & discharge speed to suit.

Optional CentriKleen – the cost effective, simple solution to dust & chaff problems, which can be fitted to existing axial fans on all makes of drier.

Optional Fire detection – can help provide early warning of a fire, helping to reduce potential damage to the drier. It is for use to detect fire within a grain drier drying column.

Commissioning & support – all Perry driers are commissioned by in-house experienced engineers, who provide expert technical advice & future servicing for complete satisfaction.

There is also a dedicated technical support line to provide a first point of call for all technical enquiries on any Perry machine.

A wide range of capacities & sizes are available.

***Photo:** A recent Perry Savannah drier & hopper bottom silo installed on a farm in South Africa.*



PERRY GRAIN SENTRY

AUTOMATIC GRAIN MOISTURE MEASUREMENT SYSTEM WITH DRIER MOISTURE CONTROL - THE GRAIN SENTRY

KEY POINTS

The Perry Grain Sentry uses pneumatic conveying to take a grain sample from the drier filling and emptying conveyor system.

The Grain Sentry can be fitted to ANY MAKE of most existing grain driers.

The Grain Sentry does not need to be calibrated (just an annual service).

Industry standard grain moisture measuring.

One system can control 2 driers.

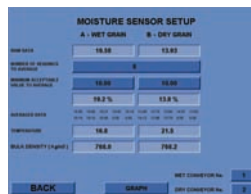
Results are fully data logged.

Reduces the need for a drier operator to be at the drier.

Self-learning drier control algorithm written by Perry's own engineers.

This is a fully integrated PLC solution when fitted to a Perry drier.

When combined with our hot air recirculation system it can save up to 35% of direct drier operating costs.



ENERGY SAVING DRIER HOT AIR RECIRCULATION

KEY POINTS

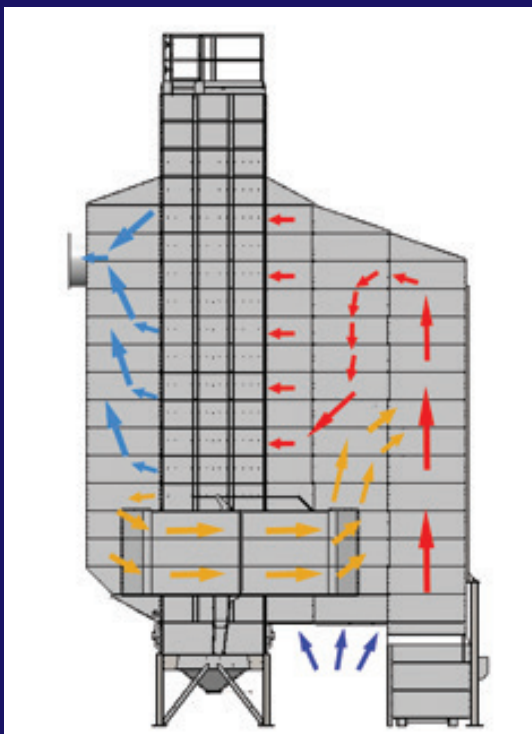
Can save up 20% or more of your grain driers fuel bill.

When combined with Grain Sentry automatic drier control total direct drier operating savings can be up to 35%. (*results will be affected by hot air temperature, type of crop dried, fan speeds, air flow, crop moisture, ambient conditions and drier model)

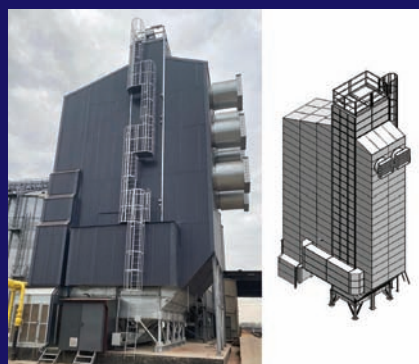
Hot Air Recirculation takes the drier air used for cooling and from the lower drying zones and mixes it with heated air from the drier heat source.

Theoretical percentage saving can be:
70°C hot air temperature, 15°C ambient, percentage saving 21% to 24% depending on drier model selected.

*Theoretical calculation, will be affected by hot air temperature, drier fan speed and air flow, crop moisture, ambient conditions, crop type, drier model.



Optional Furnace Mesh Enclosure, for use in dirty environments where there is a lot of chaff to prevent accidental fire.



DRIERS | MISTRAL RANGE

MISTRAL SERIES GRAIN DRIERS

Grain drying is a Perry specialty, & enormous expertise has developed the company into a leader in this field. Perry are world-renowned for manufacturing continuous flow grain driers, & have been successfully doing so since 1955. This range of grain driers is available with capacities from 5tph to 40tph & is suitable for a wide range of cereal crops including wheat, barley, oats & maize, Perry continuous flow grain driers are now in use in many countries across the world.

KEY POINTS

Designed with the same efficiencies & expertise as the Perry Savannah Series Driers.

Burner & fuel options – diesel, kerosene, gas steam, coal using heat exchangers or biomass heat sources as options (direct or indirect fired).

Highly efficient axial flow fans – Optional inverter-controlled fans for ease of control when drying light crops & for energy saving.

Discharge – the Mistral range of grain driers are fitted with the Perry's proven roller discharge.

*Complete
Turnkey
Solutions*

CentriKleen: The cost effective, simple solution to dust & chaff problems, which can be fitted to existing axial fans on all makes of drier.

Fire detection – can help provide early warning of a fire, helping to reduce potential damage to the drier. It is for use to detect fire within a grain drier drying column.

Commissioning & support – all Perry driers are commissioned by in-house experienced engineers, who provide expert technical advice & future servicing for complete satisfaction.

There is also a dedicated technical support line to provide a first point of call for all technical enquiries on any Perry machine.

**A wide range of capacities
& sizes are available.**

*Photo: A Perry drier
installed on a farm in
Lithuania.*

PLC DRIER CONTROL PANEL

KEY POINTS

Simple operation 12" touch screen.

Internet connectivity* allows for remote operation via an app or PC.

Over 70 alarms & messages.

Plain language status alerts.

Designed & programmed in house, by our own experienced engineers.

Data logs of all readouts & alarms & drier status.

Automatic moisture control system. This uses temperatures at the top & bottom of the drier to monitor incoming & outgoing moisture changes & control the drier discharge speed accordingly.

Recirculating batch mode included for continuous flow driers - requires an additional empty probe.



BELT DRIERS

Best suited to products with poor flow-ability or products that require a lower throughput capacity, such as woodchip/biomass, digestate, grass, refuse & seeds.

KEY POINTS

Air is drawn down through the product bed which keeps the product tight to the belt, improving drying efficiency & reducing product loss through fans via product lift.

Available in widths of 1.5m, 2.2m & 3.0m & lengths up to 75m.

Modular construction allows the driers to be extended easily at a later date, allowing your drier to grow with your business.

Automatic tracking as standard to ensure the belt stays aligned without any manual input.

Slow moving parts reduces the wear on parts meaning less maintenance.

Tightly woven, anti-static polymer belt that can withstand temperatures up to 130°C allows for very few fines to slip through the belt, meaning less product loss & less cleaning up required.

Automatic control as standard will speed up & slow down the belt to help ensure even product drying. As the hot air temperature rises below the belt it will speed the belt up automatically to help ensure you don't over-dry your product & counter to that, it will slow the belt down as the below-the-belt temperature falls.

There are no chain, slats or louvres for the product to get caught in. This keeps the drier very clean & reduces damage to the material being dried.

The in-house designed & programmed PLC panel is easy to use & provides data at the touch of a button.

Internet connection allows remote access & control of the drier from a smart phone or desktop PC.

Internet connectivity allows for Perry engineers to remotely diagnose any issues.



Above: A Perry Belt drier installed on a farm to dry woodchip.

Left: A Perry Belt drier installed on a farm to dry SRF.

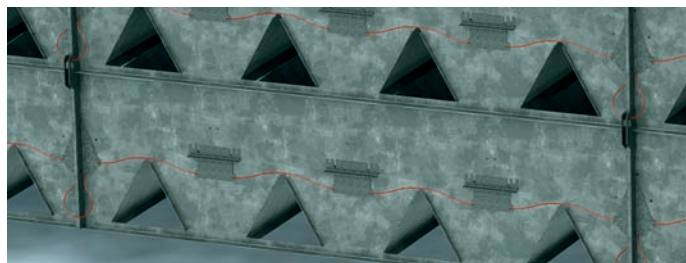
Below: A Perry Belt drier installed on a farm to dry wood shavings.



ADDITIONAL DRIER OPTIONS

DRIER FIRE DETECTION & SUPPRESSION

Perry's patented fire detection system uses a heat sensitive cable positioned against the side of the drier zone to ensure early warning of a fire. The system will identify which area of the drier the fire is at and when linked to the drier control panel will shut down the drier fans immediately and raise an alarm.



KEY POINTS

Perry's patented fire detection system can give you peace of mind when running your drier unattended.

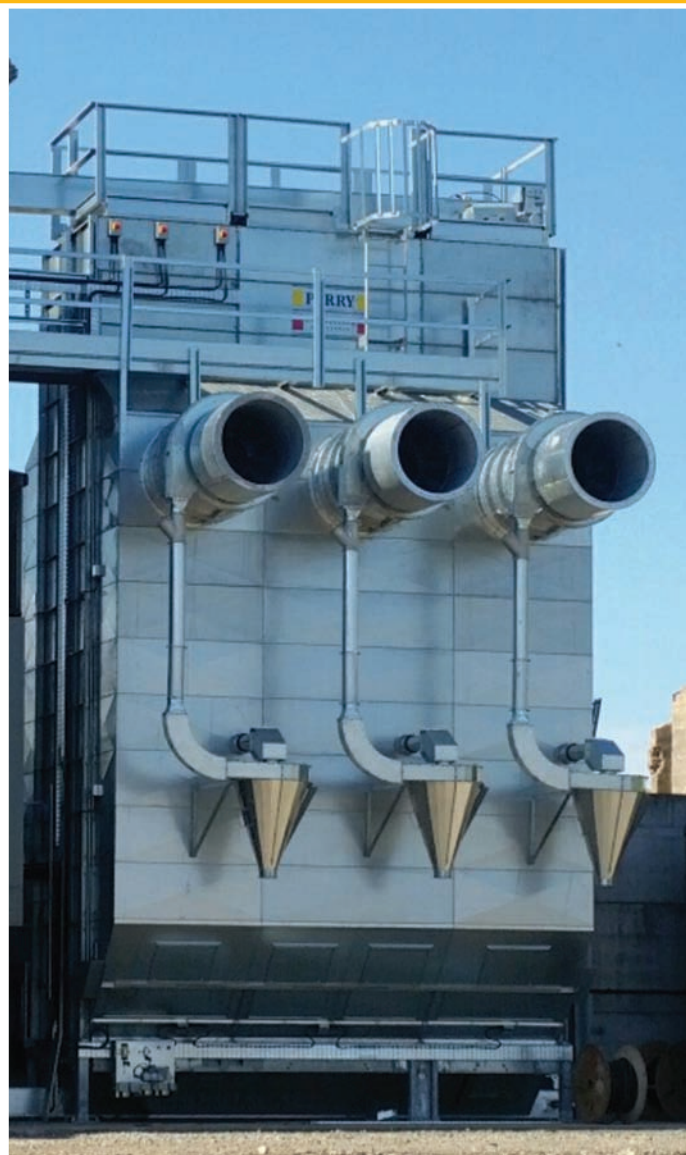
Our system provides the best chance of sensing heat build up at the early stages of a fire.

Once triggered the system will shut down the drier and fans, and can raise the alarm with an audible signal or use a modem to contact the owner or operator.

Due to changes in the wire resistance, the position of a heat source will be identified.

The Grain Sentry fire detection can be fitted to any make of continuous flow tower drier.

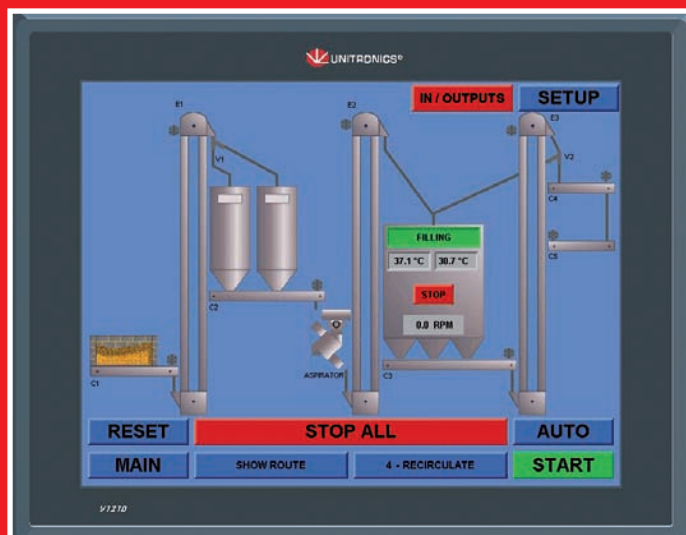
One cable can protect a whole drier.



PLC PLANT CONTROL PANEL

You can upgrade a PLC Drier Control Panel to become a full PLC Plant Control Panel, which will allow the control panel to control an entire plant, including machines by other manufacturers.

Below: Typical screen shot of the PLC Plant Control Panel



CENTRIKLEENS

The Perry CentriKleen is the simple solution to your drier's dust & chaff problems. If you have had enough of your yards, roofs or equipment being covered in dust, chaff & fines then the Perry CentriKleen is the solution you have been looking for. This is the biggest step forward in allowing farms, stores & other industries to cost effectively collect the dust emitted by their driers.

CentriKleens can be installed on our Savannah Series & Mistral Series Continuous Mixed Flow Driers, our Belt Driers & other makes of driers that have axial fans*.

* Subject to fan survey & test

KEY POINTS

Harper Adams University, a leading Agricultural University in the UK have independently assessed the Performance of the CentriKleens, & a full report is available upon request.

No additional motor power required.

Up to 95% of visible dust, chaff & fines collected.

Does not require additional steel support.**

No moving parts.

All galvanized.

Particulates can be collected into a trailer, dust box or building.

Two models currently available to suit 1m & 1.25m diameter axial fans.

** Periodic access is required for cleaning

CLEANERS, ROTARY & SIEVE

Perry manufacture & supply a complete range of grain/seed cleaning equipment. By using key, quality suppliers Perry are able to provide their customers with a complete handling, drying & cleaning plant.

All of the Perry equipment is manufactured in the UK, in a purpose built factory, & is manufactured from high quality materials. Perry have been providing cleaning solutions to the grain industry for over 75 years, with years of experience, the Perry name is a name that is synonymous with high quality products that stand the test of time.

ASPIRATOR PRE-CLEANERS

The Perry In-line Aspirator Pre-Cleaner removes dust, chaff, husks, awns & material lighter than the grain to help improve the quality of a product before it is dried. Four capacities are available: 30tph, 60tph (to achieve 120tph two 60tph models can be used in tandem) & 150tph.



ROTARY CLEANERS

Rotary cleaners improve grain / cereal quality by removing light dust, chaff & heavier impurities before drying. Cleaning grain / cereal before it is dried is an essential process for grain that is going to be stored for long periods of time. By improving the quality of the grain before it is dried the risk of the grain overheating whilst in storage is reduced. Drier running costs are also reduced as only the best quality grain remains. The amount of dust released into the air whilst being dried is also minimised.



Complete turnkey solutions

SIEVE CLEANERS

SIEVES CLEANER & SEPARATOR

The function of the sieve cleaner & separator is to separate accurately impurities present in the product. It is designed for the milling industry with demands for high performance per hour & reliability over the time.

KEY POINTS

Sieve casing supported by frame constructed with pressed thick metal sheet.

Entrance doors made of pressed metal sheet with heavy hinges & locking screws.

Capacities up to 380TPH based on wheat.

Sieve casings built in galvanized high strength sendzimir metal sheet, with bolted components.

Sieve holders & sieves in sendzimir galvanized metal sheet with wooden parts accompanied by groups of rubber spheres.

Channels (No. 3) for by-products conveying.

Inlet product hopper with counterweight distributor.

Combined handling system: eccentric rotation with damped suspensions.

Aspiration decanter chamber for dust suction with: servo-motors for air flow dampers adjustment, product flow retarder, by-products extraction auger, suction outlet.

Automatic locking system for malfunctioning.

Power panel on board of machine, optional inverter for casings handling & inverter for fan speed control.

SWEEP AUGERS

COMMERCIAL SWEEP AUGERS

Perry can supply a range of industrial/commercial sweep augers (also known as Industrial grain reclaimers & FIFO unloaders), that are ideally suited to large farms & commercial grain stores. The sweep augers are designed to completely empty the bottom of flat silos or warehouses that store cereals, seed or pulses.

Perrys supply a range of industrial specification sweep augers which are the ideal solution for the removal of the grain once the silos are fully discharged by gravity.

Standard capacities range from 35m³ up to 800m³ & are designed to handle a wide range of products. Centre support frames are available in a range of sizes allowing for gravity discharging up to 2,000m³/hr.

The range of sweep augers can be installed in silos from 6 meters up to 42 meters in diameter. A reliable, fixable way to discharge silos, for small scale systems to quay side installations.

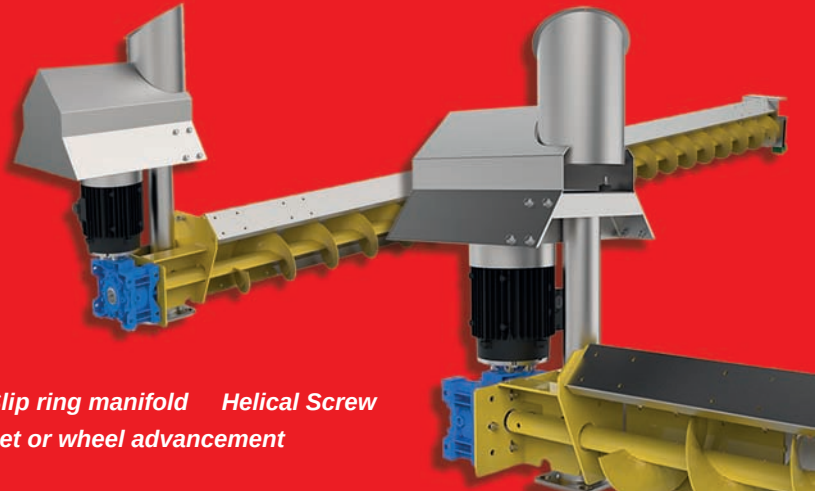
AGRICULTURAL SWEEP AUGERS

The agricultural sweep augers are designed to completely empty the bottom of flat silos or warehouses that store cereals, seed or pulses.

They are manufactured with a modular construction from sheet metal which encloses an appropriately sized steel screw. Standard intermediate lengths of 1500mm, 2000mm & 3000mm are available, but other lengths can be manufactured upon request.

The main components included are:

*Drive end with gear motor Discharge hopper Slip ring manifold Helical Screw
Screw support casing Tail end with oscillating feet or wheel advancement*



SCREW AUGERS

U-TROUGH & TUBULAR SCREW CONVEYORS

Perry manufacture a complete range of U-Trough & tubular screw conveyors. Standard diameters are from 150mm to 1000mm. Larger diameters & machines for specialist applications can also be manufactured on request. Screw conveyors can be constructed in stainless steel, galvanised steel or mild steel powder coat painted. A range of drive configurations are available, along with flighting options covering various thicknesses, ribbon flight, reduced pitch, tapered, mixing, hardened or paddle flights.



SILO AUGER DISCHARGE SYSTEM

Perry's Silo Auger Discharge System is purposefully designed to unload round flat bottom silos quickly & efficiently. With capacities available from 40tph to 240tph as standard, the Silo Auger Discharge System is ideally suited to commercial grain stores, as well as smaller farms.

Our system allows for maximum emptying efficiency as it's designed with one main inlet in the centre of the silo then multiple intermediate inlets spread from the centre of the silo out towards the edge. Each inlet has individual rack & pinion control, allowing for full & individual control of each inlet.



BELT CONVEYORS

Perry's range of belt conveyors are suited to both agricultural & industrial applications & are available in widths up to 2m & capacities from 20 to 1200TPH. They are manufactured using high quality, durable galvanised steel & have a three piece steel trough construction or a three roller trough belt assembly. These conveyors are ideal for filling large storage sheds, & handling products that have poor flowability.



Above: Agricultural belt conveyor

Right: Belt conveyor for a commercial grain store

KEY POINTS

There are many inclined applications up to 30 degrees depending on the product being handled with chevron belts.

Exceptionally rigid construction, easily capable of spanning 6m building bays.

Joints are dimpled, guaranteeing an accurate alignment & smooth & strong connection.

If a tripper device is specified, it can be either motorised or hand operated. As it is winched, there is no electrical power supply to the tripper requiring an expensive catenary cable.

Two manually adjusted tensioning screws are fitted to the tail end.

Belt take up unit fitted on lengths over 50m. Gravity tensioner unit also available.



CHAIN CONVEYORS

TWIN TRACE

Perry twin trace conveyors are specifically designed to handle products of low bulk densities & those that require gentle handling at low chain speeds, with each machine tailored to individual customer's requirement.

The all bolted construction options include stainless steel, galvanised steel & mild steel powder coat painted. As standard they are available in four widths, including 250mm, 400mm, 600mm & 1000mm, other options available on request.



LEVELLING & TRAVELLING CONVEYORS

Manufactured to the same quality as the Perry range of agricultural & industrial specification chain & flight conveyors.

Installation of a levelling or travelling conveyor gives optimum use of available storage volume by providing the ability to level fill a store without surcharge loading. Best suited for ventilation, or on floor drying, as the grain is not compacted by pushing it up with a loader & the airflow is even, due to the level fill.

A levelling or travelling conveyor will maximise grain store capacity whilst minimising the labour required. They are suspended on carriages & beams at each end of a grain store & are manually pushed or winched along the length of a building. Systems can be fully automated.

CHAIN CONVEYORS

Perry manufacture a complete range of conveying equipment that is suitable for various applications as standard. Some of the more common applications have included grain for both farms & commercial grain stores, ship loading conveyors, bin/silo emptying, grass processing, aggregate handling, waste & recyclables handling & many others.



Perry's range of conveying equipment is available in a wide range of widths, lengths & specifications, meaning there is sure to be a conveyor in the range that is ideally suited to your application.

HEAVY DUTY AGRICULTURAL RANGE (UP TO 120TPH)

Perry also manufacture a heavy duty agricultural range of chain & flight conveyors, which have been purposefully designed when higher capacities are required. These chain & flight conveyors are capable of capacities of up to 120tph based on wheat at 750kg/m³ & suitable for up to 30,000 tonnes per annum.

The heavy duty range has a steel plate chain with breaking strains up to 70.6kN, rather than the standard breaking strains of up to 34.3kN. They are ideally suited to small grain stores or large farms. As with the standard agricultural chain & flight conveyors, these conveyors are suitable for conveying most free flowing or partially free flowing materials & are available as horizontal / flow & return, inclined or curve combination configurations.

AGRICULTURAL CHAIN & FLIGHT CONVEYORS

All Perry chain & flight conveyors are capable of handling a variety of granular products from grains, to sawdust, to feed pellets. The agricultural conveyors are capable of handling grains, peas & beans as standard, but with a few simple modifications can be tailored to handle other products such as seeds.

The agricultural range of conveyors are capable of capacities of up to 60tph based on wheat at 750kg/m³, suitable for up to 10,000 tonnes per annum & are manufactured from durable, heavy duty galvanised steel. The heavy duty range is capable of capacities of up to 120tph based on up to 30,000 tonnes per annum. The life expectancy is exceptional, aided by precision roller chain fitted with deep faced flights as standard, meaning no metal to metal contact. An increased machine life span means better a value product.

DEEP FLIGHT CURVED CONVEYORS (INDUSTRIAL RANGE)

This industrial conveyor is ideally suited to feeding into an elevator boot when avoiding pits in concrete. Capacity options range from 60tph to 350tph at angles up to 60 degrees. This machine is suitable for both agricultural & industrial applications.



INDUSTRIAL CHAIN & FLIGHT CONVEYORS (60 to 800TPH+)

The Perry industrial range is capable of capacities exceeding 1000tph & is suitable for full commercial use. Each conveyor is manufactured to individual requirements & can be constructed in stainless steel, galvanised steel & mild steel powder coat paint.

All Perry chain & flight conveyors are capable of handling a variety of granular products from grains, to sawdust, to feed pellets. With some simple modifications, the conveyors can also handle products such as seeds & aggregates.

CURVED COMBINATIONS

Perry chain & flight conveyors are capable of handling a variety of granular products from grains, to sawdust, to feed pellets. Capable of handling grains, peas & beans as standard, but with a few simple modifications these machines can be tailored to handle other products such as seeds or minerals.

The Perry range of agricultural chain & flight conveyors are available in capacities up to 120tph & come in standard case sizes of 7", 9" & 12". As standard, Perry produces 15°, 45°, & 90° curves, but other angles are available on request.



INTAKE & RECEPTION HOPPERS

Our mechanical reception hoppers & trench intake conveyors range includes two different intakes with full compatibility with the Perry range of chain & flight conveyors. These are mechanical reception hoppers & trench intakes & both are suitable for free flowing products.

Mechanical reception hoppers are suitable for both above & below ground use & can also be made into mobile receptions. Trench intakes have been designed to reduce time spent loading mobile grain driers & are designed to be installed within a pit without a product catchment hopper. Both types of intakes are manufactured from durable galvanised steel & have been designed to the same high specification as our chain & flight conveyor range.

RECEPTION HOPPER

Can only be used for free flowing products.

Manufactured in lengths from 3m to 6m (industrial up to 8m) & double this when units are used in tandem.

Hoppers enable trailers to be tipped into a mechanical pit above ground. This is especially useful when there is a high water table & deep pits are not possible. Alternatively hoppers can be situated below ground to allow drive over access.

The civil works only require a simple rectangular pit.

Mobile machines are also available.

Hoppers can be fitted to almost any Perry chain & flight conveyors giving complete flexibility.

Galvanised construction is standard for all capacities up to 800tph.

Inverter control is not required as there are two separate control slides with operating handles for flow control.

Curved machines in conjunction with flight conveyors allow for many different configurations.



TRENCH INTAKE

Can only be used for free flowing products.

More cost effective alternative to a reception hopper.

Lengths from 1.5m upwards.

Narrow & compact, perfect for existing trenches.

No intake hopper, unless used as an optional extra.

Capacities up to 800tph.

Requires an inverter to control the product flow rate.

Compatible with most portable driers.

Designed to reduce time spent loading a drier.

Optional Hopper to increase product catchment area.



ELEVATORS

Perry manufacture a complete range of elevating equipment that is suitable for various applications as standard. Some of the more common applications have included grain for both farms & commercial grain stores, ship loading conveyors, bin/silo emptying, grass processing transitions, aggregate handling, waste & recyclables handling & many others.



Perry's range of belt & bucket elevators can be made suitable for handling a wide variety of products/materials with simple modifications to bucket types, belt types, boot heights & belt speed which makes them an ideal choice for a variety of industries.

Complete turnkey solutions

INDUSTRIAL BELT & BUCKET ELEVATORS

Capacities of industrial belt & bucket elevators range from 100tph to 1000tph & are suitable for full commercial use. Elevators are available in both single & double lift, & each one can be easily converted to be made suitable for seed handling.

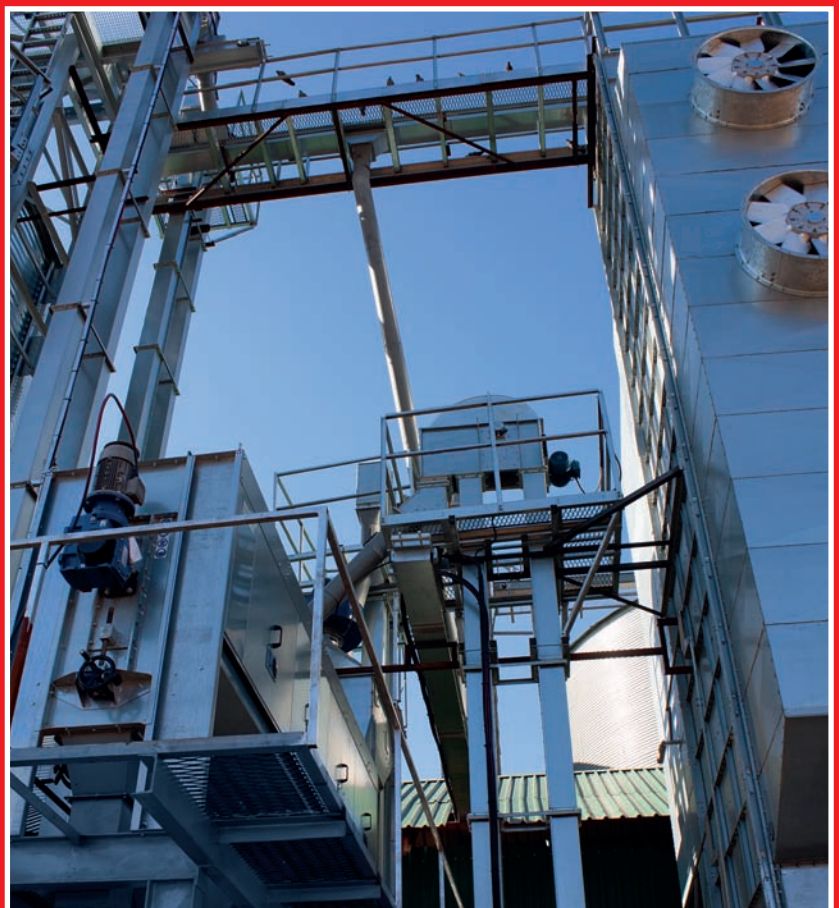
All Perry elevators are manufactured in durable galvanised steel to increase life span, & each elevator model has a wide range of optional extras available along with 90 degree gear unit drives. Gearboxes arrive filled with lubricant to enable a quick & easy installation.

AGRICULTURAL BELT & BUCKET ELEVATOR

As standard, Perry elevators are capable of handling grains, peas, beans, woodchip, sawdust & many other free-flowing materials. With some minor modifications, they can be made suitable for seeds & other products that require more delicate handling, along with products that are more abrasive & hazardous to handle.

Capacities of the agricultural belt & bucket elevators range from 11tph to 150tph. Each one can be easily converted to be made suitable for seed handling. All elevators are manufactured in durable galvanised steel to increase life span, & each elevator model has a wide range of optional extras available, ensuring each Perry elevator is manufactured suited to individual requirements.

As standard Perry elevators are fitted with slatted pulleys - reducing the build-up of material on the pulleys. A low stretch rubber, oil-resistant EP belt is used with 90° gear unit drives. Gearboxes arrive filled with lubricant to enable a quick & easy installation.



COLOUR SORTING

Perry can provide an optical colour sorter range which consists of cost effective, high capacity, machines featuring the latest full colour RGB (Red, Green, Blue) technology. Intelligent & intuitive software & flexible configurations make it perfectly suited for medium & large commercial use.

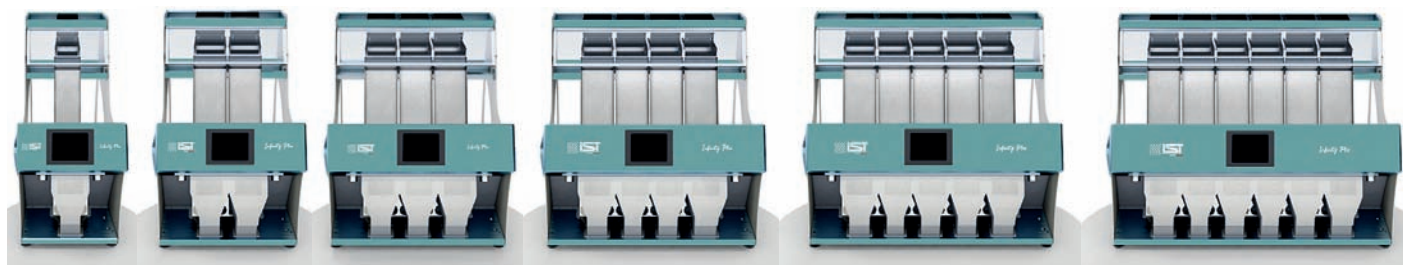
The range is available in different sizes & configurations, & offer flexible resort options that are easily changed by the user to adapt to different product & capacity needs. There is also a range that has the added benefit of shape recognition technology enabling material to also be sorted by shape & length.

Wide chutes provide high processing capacity & the option of a simultaneous tertiary sort offers higher yield. The reverse sort option provides an additional function for reclaiming good product from the reject.

Full colour RGB cameras enable the colour sorter to detect & remove defects with subtle colour differences which adds to its versatility.

The intuitive user interface design has individual sensitivity adjustments for specific defects. This simple sorting control makes it easy for the operator to achieve maximum sorting performance with minimal training.

Another technological advantage present in the Colour Sorting machines is the ability to automatically recalibrate without production stoppage.



Above: Perry can supply the new I.S.T. Colour Sorters in a range of chute numbers from one to six to suit your own specific requirements.

In addition to being connected to Wi-Fi for remote assistance, IST's optical sorters allow constant supervision whilst it is working. The probes control the flow of the product & allow you to manage the inspection phases remotely both through the PLC & through the Internet via a smartphone or tablet where you can view the sorter.

Right: Just some examples of what our machines can sort by colour.



Purple flower bean



Shelled peanuts



Light speckled kidney beans



Sunflower seeds



Corn



Red beans



Peanuts



Peeled sesame seeds



Small beans



Soy beans



Sesame seeds



Wheat

**SALES & SERVICE, PROJECT MANAGEMENT
SURVEY & EVALUATION REPORTS
INSTALLATION & MAINTENANCE
OF HANDLING & DRYING EQUIPMENT**

**GRAIN DRYING &
HANDLING EQUIPMENT:
CONVEYORS
ELEVATORS
DRIERS
SILOS &
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