

Product Guide



20+ Countries



Pearson Milking Technology

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Welcome...

Pearson Milking Technology

Over the decades, since its formation, Pearson has been helping the dairy farmer pursue greater and more efficient milk yields. The practical use of modern materials and state of the art electronic systems have lead to a durable and innovative product range designed and manufactured in Ireland and sold throughout the world. These long years of experience work to the advantage of the dairy farmer, as the high standard of quality and reliability in Pearson Milking Technology, keeps running costs to a minimum and performance to a maximum.

Whether you want technological perfection or the simplest and most economical solution, Pearson can satisfy your needs with equipment that has built-in reliability.

www.pearson-international.com





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Pearson Products

Research & Design

Over the past 70 years, Pearsons have introduced innovative ideas into the dairy industry, knowing some of the best ideas come from people who use their equipment everyday. We are always seeking ways to improve what we deliver and develop better solutions for the future. We are passionate about creating breakthrough technology and high performance products, easily operated that provide dairy farmers with optimum efficiency and cow comfort!

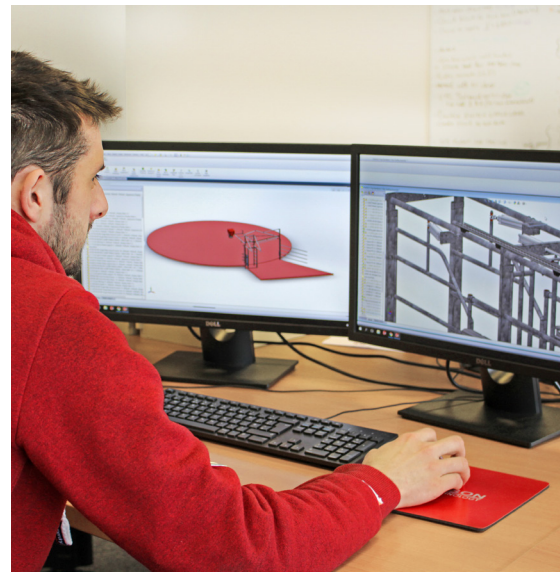
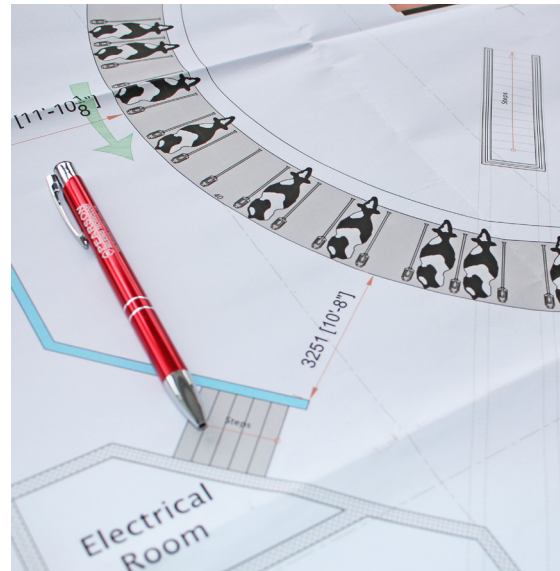
With strong focus on research and development within our company values we strive to create exceptional products for our users, which improve farm lifestyle, sustainability and profitability.

Manufacturing & Quality

Quality is key for Pearson products and this is why 90% of our products are designed and manufactured in Ireland. This gives us total control of the production processes ensuring the quality of the final product.

We are perfectionists - at Pearsons we appreciate how important attention to detail is and how something that may seem small in the large scale of things can have a great impact on the finished product. Take our nylon rollers in our rotary design as a first class example!

Although there is the standard range of products shown in this catalogue, Pearson can manufacture customized parlours to suit almost all needs.



What system suits **me**, **my cows** and **my farm** ?



Type of dairy farming

Depending on the type of dairy you are running can influence the machine and equipment being purchased.

Herd size

When planning the parlour size. Taking into account the future size of the dairy is very important.

Cow flow

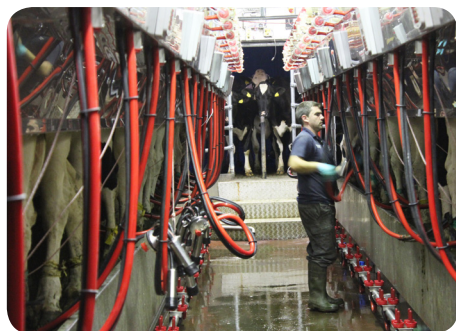
Having smooth stress free cow flow to the collecting yard , through the parlour and out of the dairy through the selection system.

Milking time

Time in the parlour for your cows should be kept to a minimum. Keeping in mind your milking routine, consider a goal time to have your cows milked.

Check List

- Trades People - Builder / Electrician / Plumber
- Site levels are considered.
- Local or national grants.
- Cow flow.
- Finish on parlour walls and Concrete.
- Electrical supply, transformer size.
- Waste water volume.
- Compressor, Generator.
- Hot water supply.
- Cow handling layout.
- Meal bin positioning.
- Canteen / toilet / shower requirement.
- Energy saving options.



Express Fit Installation

Pearson herringbone parlours can be delivered as an Express-Fit package. The relevant stallwork is assembled and all equipment ordered on the parlour is fitted, wired and tested by experienced technicians in the Pearson factory.

The parlour is then delivered by an articulated truck to the farm where it is installed into the milking shed within hours.

Installation technicians then proceed to install other features of the machine depending on the items purchased. Parlours may be installed into new sheds in a matter of days or if the new parlour is being placed where the existing parlour is sited, a one day change over may be requested.

Testimonials...





John Phelan

Name: John Phelan

Herd Size: 165 Cows

Parlour: Rapid Exit

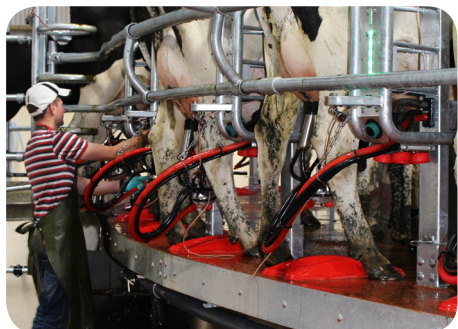
Technology: ProFarm, i100, Forward Motion

Herd Management: SmartTag, Animal Selection

"I wanted a one-man operation"

"With the heat detection system I definitely have less repeats than last year"

"I don't mind coming to milk anymore, I don't have to leave the pit. It is a lot less stressful on the cow and operator"



Brownstown Estate

Name: Shane Corbaly

Herd Size: 330 Cows

Parlour: 50 Point Rotary

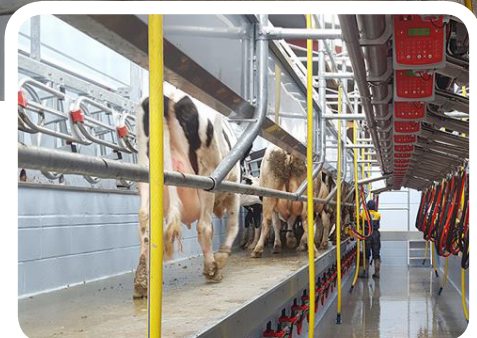
Technology: Global ProFarm, Milk Meter

Herd Management: Crowd Gate, Animal Selection

"An excellent addition to the farm"

"Very happy with the milk meters. Its a game changer having access to that level of information on individual yeilds"

"Drafting unit has made life a lot easier with jobs like hoof pairing, AI and drying off"



Bradford Down Farm

Name: James Dovey

Herd Size: 165 Cows

Parlour: Swingover

Technology: ProFarm, i100, Milk Separation Line

Herd Management: MRS, Animal Selection

"We preferred the Pearson parlour over other makes"

"We liked dealing with the manufacturer, rather than just a sales rep"

"The parlour size, layout, its all brilliant. I would really recommend Pearsons"

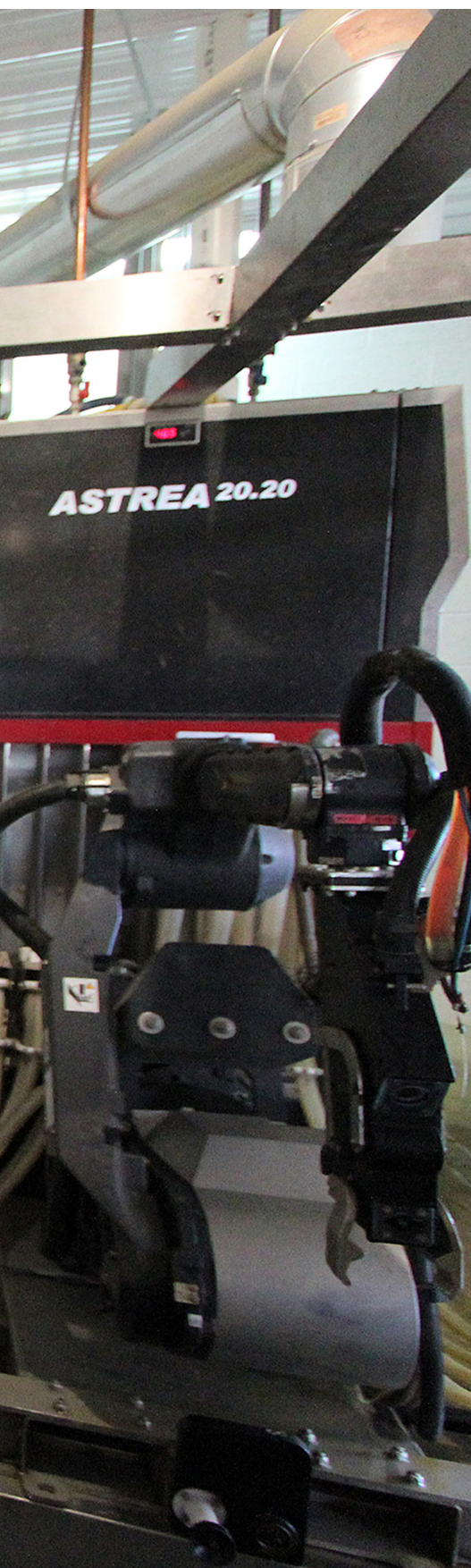


PEARSON

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Milking Systems





Robotic Milking

Astrea 20.20 Premium

For many years, after successful application in industry, the new ASTREA 20.20 concept is now proving its clear competitive edge. The tried and trusted industrial robot technology provides exceptional levels of reliability. During the milking process, there is no technology present under the cow giving lower stress levels, but also reducing the risk of injury to the cow and faults in the equipment. This means that the ASTREA 20.20 technology is indisputably unique. The special new generation 20.20 laser and scanning technology also guarantees quick and reliable attachment to the milk teats.

Astrea 20.20 Premium

What you can expect from the **Astrea 20:20** Milking Robot

- Proven robot technology
- Robust construction, hygiene and security
- Steam cleaning system
- Milking like you have always known it
- Smart Collect© and SENSE©
- Conductivity and SENSE©
- Cow feeding and milking unit
- Reliable operation
- Low maintenance costs
- Low water consumption
- Low energy consumption
- Free cow traffic, focus on animal welfare
- Natural pre-milking stimulation
- Saving labour
- Reliable technology
- Flexible operational management
- More time to spare
- The cow takes centre stage
- Increased milk production
- A “plug and play” concept
- Low operating costs
- Durable materials
- Easy installation and Assembly

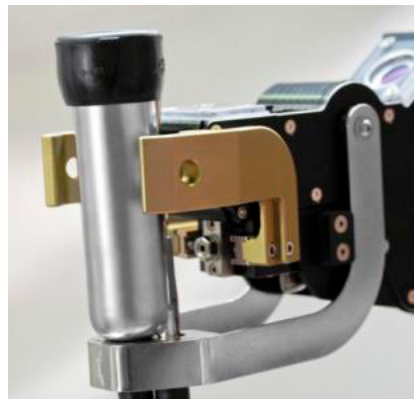


Robotic Milking

ASTREA 20.20 gives you a choice of options to separate the milk with Smart Collect© & SENSE©



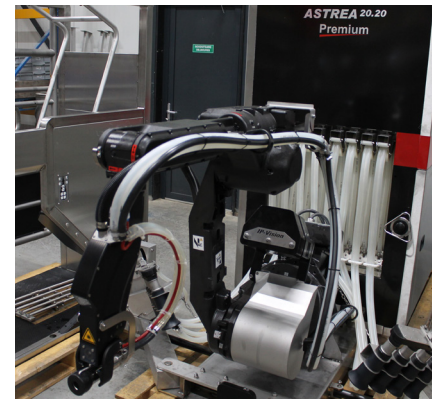
The ASTREA steam cleaning system kills any bacteria, without the need for a cleaning agent.



Conductivity & SENSE© for detecting & separating milk containing blood or non-standard milk.



The ASTREA robotic arm is one of the most reliable products of its kind on the market.



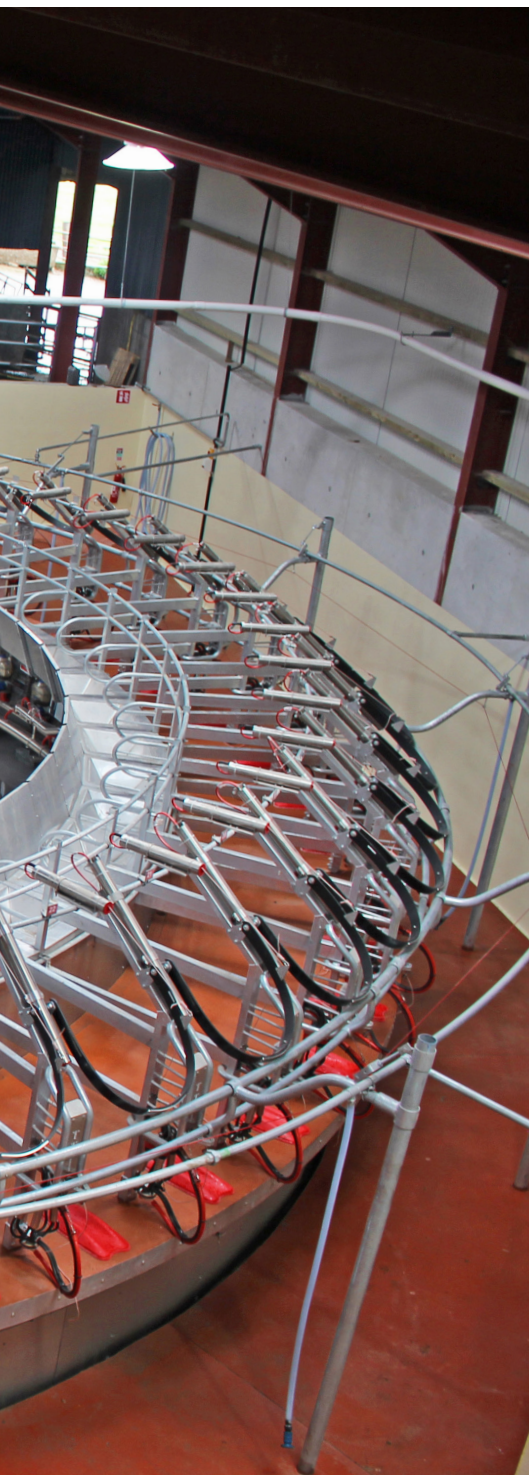
This cow feeding unit with its soft rubber floor guarantees maximum cow comfort without any force leaving no stress in this spacious box.

Milking like you have always known

The ASTREA milks in a natural manner. The milking process can be sub-divided into 4 phases:

- 1) The pre-stimulation and cleaning phase of the udder.
- 2) The milking phase, with the option of animal-specific milking settings.
- 3) The removal phase, whereby the current milk flow determines whether removal can take place for each udder part.
- 4) The milk pumping phase, whereby the milk is separated to the central milk cooling tank depending on its quality.





Rotary Milking Parlours

Comfort for the Cow, and Operator

To handle milking on large herd dairies, rotary milking parlours are an efficient use of space, labour and time. To create the most comfortable milking experience for the cow while on the rotary platform, each cow has their own bail area and feed trough, thus preventing bullying and creating a more relaxed environment for the cow.

With almost constant cluster application and less operator movement, the rotary parlour proves to be one of the fastest ways to milk cows. Incorporating Milk Metering with Pearson's ProFarm Management System gives total control over the dairy herd.

Pearson Rotary Decks



The perfect combination of **cow comfort, operator ease and durable construction.**



Extra **Efficiency**

- Speed up milking time
- Quick entry & exit
- Less Labour



Durable **Design**

- Robust construction
- Reliable operation
- Low maintenance costs



Excellent **Experience**

- Added cow comfort
- Operator friendly
- Easier herd management

Features of the Orbitor Rotary Deck

Industrial Roller System

A double I beam nylon roller system, both heavy gauge 180 x 75 I beams are fully galvanised, the bottom I beam is mounted on galvanised feet (one per unit) to give max strength & support. The nylon rollers are placed on the bottom I beam and connected with a carriage system. The top I beam is then positioned on the nylon rollers. This will be the moving beam. There are no bearings incorporated in any of the nylon rollers, giving one of the most industrial, long lasting roller systems on the market.

Deck Design

The concrete deck is forward sloping, this ensures all wash water runs forward into the drains and not back onto the operator.

Constructed from inner and outer structural nibs, A galvanised pan system is placed at the base of the deck for ease of concreting.

The table is reinforced with 10mm mesh & fibre concrete is poured to give max strength & long life to the rotary deck. The concrete table provides a quiet, strong platform for the animals to enter & exit comfortably.

Rotary Gland

The Pearson Rotary gland is constructed from the highest grade materials. It is manufactured from stainless steel with special nylon rings to minimise wear.

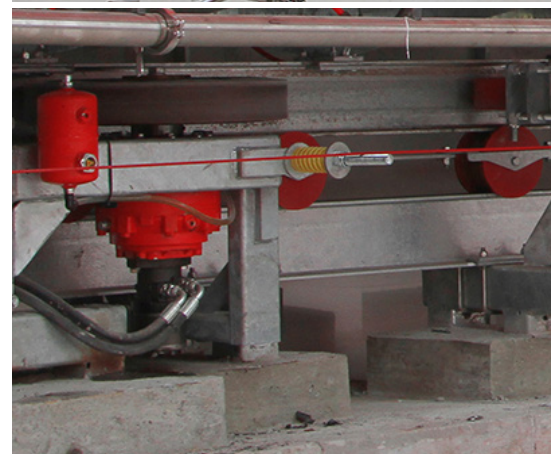
They can range from a 4 port gland supplying vacuum and milk, up to a 16 port gland for supplying teat spray, water and compressed air. The gland also supplies electrical power to the inside of the rotary allowing 11 separate connections.

Drive System

The drive system which moves the rotary platform can be a hydraulic power system with electronic changeover valves or a full Electric drive system. Mounted under the table are the gear boxes with large drive wheels attached to move the table. If a power failure should occur, The Hydraulic power system comes with quick couplings to connect to a tractor to rotate the table allowing the cows to exit the platform.

Rotary Control Panel

The control panel activates the forward, stop and reverse functions, the table is equipped with a number of safety sensors to pause and start the table depending on cow movement at the exit and entrance points. From this panel you can control, separate systems such as auto teat sprayers, crowd gates, cluster washers, etc.



Space Saving, Simple Design.

TP195 Stall Divider

Construction & Design

The bail is constructed of heavy duty black steel pipe and is then hot dipped galvanised giving a very durable robust bail unit. There is a stainless steel front cover mounted to the bail unit that holds the control unit or indicator display in place. The bail dividers are constructed from two heavy gauge box sections, the bottom one of the two houses the stainless steel manifold for milk and pulsation pipes. Using these materials reduces the amount of rubberware per unit and greatly reduces yearly service costs. It is a narrow bail design to allow more units within the space available.

The jetter cups are incorporated into the bail for easy and fast attachment and detachment.

Comfort

The bail unit has been designed with round and curved lines to allow comfort to the cows entering and exiting the units. The low height of the bail allows a more comfortable, easier entry onto the deck and gives a faster more relaxed exit off the rotary allowing the cow lift her head over the bail while reversing.

If feeding on the rotary, the head dividers prevent cows poaching and the stall dividers prevent pushing and bullying, this creates a comfortable environment for both the cow and operator.

Technology

All Pearson rotary bail units can be installed with a basic cluster remover and upgrade through the years to the Pro Farm Global LED system for total farm and parlour management.





Industrial

working 24 / 7

Enduro Cabinet Bail

Construction & Design

The cabinet is constructed entirely of heavy gauge stainless steel and incorporates a stainless steel jetter door assembly, this gives a long life against harsh environments and chemical usage used around modern rotary parlours. e.g. cluster flushing.

The Enduro Bail has been designed for industrial use for large herd dairies. The strong durable cabinets are built with smooth easy to clean surfaces to keep hygiene at its maximum.

The bail dividers are constructed from two heavy gauge box sections, the bottom one of the two houses the stainless steel manifold for milk and pulsation pipes. Using these materials reduces the amount of rubberware per unit and greatly reduces yearly service costs.

Comfort

The Enduro Bail unit has been designed with curved folds on the stainless steel to allow comfort to the cows entering and exiting the units. The low bail allows a more comfortable, easier entry onto the deck and gives a faster more relaxed exit off the rotary deck allowing the cow lift her head over the bail while reversing.

If feeding on the rotary, the head dividers prevent cows poaching and the stall dividers prevent pushing and bullying, this creates a comfortable environment for both the cow and operator.

Technology

While the Enduro bail can easily be set up with a standard cluster remover and upgraded over time, it is designed for the Pearson Pro Farm Global LED package. Installing the Pro Farm Global LED system leaves the cabinets free of electronics preventing maintenance cost and unit downtime. Combining this electronic platform and the Enduro rotary bail results in a state of the art, industrial, low maintenance rotary parlour.

Rotary Options



Retention Bar System

Performance

The Pearson Retention bar system ensures maximum performance from your rotary table, the retention bar drops once the cluster is attached to the cow. If the cow is a slow milker the retention bar prevents the cow exiting at the exit point. Once the cow has finished milking the retention bar lifts and the cow exits the platform when the exit point comes around again.

Durability and control

Pearson Retention bars are constructed & manufactured from industrial nylon and stainless steel to allow long life against corrosion. They may be controlled by vacuum or compressed air.

Intelligent Retention

The Pearson Retention system may be controlled by the ProFarm System. This intelligent control system monitors the cows milk flow, quantity and health on the rotary table. If any deviances are detected the retention bar drops just before the exit point of the rotary, bringing the cow back to the operator to be checked for any problems.



Swing Arm System

Comfort

To offer comfort to the operator and comfort for the cow install a Pearson swing over arm onto the rotary unit. The swing arm ensures the weight of the milking tubes are supported while the cow is milking and also positions the cluster more comfortably on the cow. When the cluster is being removed from the cow the take off cord is guided through the end of the arm giving a more direct and comfortable take off for the cow.

Material

All Pearson rotary cluster support systems are constructed from heavy duty stainless steel.



Expell Cow Remover

Speed

To ensure continued cow flow onto the rotary parlour, it is important that the cows finished milking know when to get off. The Pearson expel cow remover system uses both compressed air and water. If the cow is still on the deck two positions after the exit point a slug of water is built up and then sprayed onto the cows head to encourage her to leave the platform.

Options

This system may be controlled by three options:

Automatic : the system sprays every cow going past it.

Manual : the spray may be controlled by the operator.

Intelligent : automatically spray every cow that is to be off the table but not spray a cow going around twice for a second milking turn. (only available with the ProFarm system).



Rota Clean Water System

Milk Quality

Keeping a rotary clean during milking can be a very difficult task. The deck and cluster are two main areas that need to be kept clean as they are in contact or close to the cows teats.

Deck Wash System

A high powered spray nozzle is positioned at the exit point of the rotary deck, this nozzle cleans the deck of any dung or waste milk on the table, giving a clean inviting area for the next cow. The spray nozzle will only activate when the rotary is in a forward milking rotation to reduce the amount of water used.

Cluster Wash System

A gentle spray is positioned at the entrance point of the rotary deck, this nozzle cleans the cluster of any dung or dirt, this provides the operator with a clean cluster for the next cow. The spray nozzle will only activate when the rotary is in a forward milking rotation to reduce the amount of water used.

Rotary Options



EasyMilk Line

The EasyMilk Line is a great addition to any rotary parlour. It is used for separating an individual cow's milk whether it is due to beastings or antibiotics. With quick attachment and easy cleaning it is a fast and a cost effective solution for milk separation.

Components

Pearson EasyMilk Line is comprised of a ring vacuum line around the external of the rotary platform. Near the operator there are a number of milk bucket assemblies incorporating a pulsator and milking cluster.

Operation

Once a cow enters the platform and their milk is to be separated for example for beastings. The bucket is attached to the hooks under the rotary table and a tube connected onto the ring vacuum line to supply vacuum. Once the cluster is attached the operator can start the rotary deck again and the bucket assembly will move with the rotary table.



Leg Divider System

Comfort

The Pearson Leg Divider unit is installed onto the rotary deck. Once the cow enters the unit, her back legs are positioned either side of the divider creating an open and inviting area for the operator to attach the cluster to the udder.

The divider unit also provides the automatic teat sprayer an open area between the legs to give better spray cover and allowing more accurate spraying.

Material

All Pearson Leg Divider units are constructed from a special mix of plastics to ensure a durable and long life product. The unit is fixed to the deck with stainless steel fixing screws.







Herringbone Parlour

Herringbone Milking Systems

Cow Positioning

The Herringbone rump rail construction and height over the cow stand allows fast cluster application due to clearer access to the udder. The straight or cranked rail design gives fast cow entry and is comfortable for different cow sizes.

Comfort

The tapered rump rail of the herringbone parlour overhangs the pit edge reducing the reach of the operator for cluster attachment. With the cows legs close to the pit edge, the Pearson folded kerb rail gives a strong barrier, preventing cows putting their hoofs into the pit, creating a comfortable environment for cow and operator.

Herringbone Options



MidLine Milking Parlour

Start With Quality

Choosing to install a MidLine milking system is the base equipment for excellent milking. All Pearson parlours are fitted with high performance milking clusters, reliable pulsation systems and strong heavy duty stall work.

Expandable

All Pearson parlours are easily upgradeable, whether it is the number of units or level of technology.

Features:

- Low installation cost.
- Durable heavy duty construction.
- Minimal maintenance.
- High throughput.
- Ability to easily add on extra equipment.



SwingOver Milking Parlour

Comfort

The stainless steel SwingOver parlour ensures a comfortable cluster position for the cow. The swing arm supports the milk and pulsation tubes giving the best milking position for the cluster while on the cows udder. This also gives comfort to the operator ensuring an open and clear milking pit to work in.

True Efficiency

Once milking starts, clusters are applied to the first row of cows, the opposite row can be loaded before the first clusters come off the first row. As the clusters are removed from the first row they are swung across to the next side. This minimises down time of the cluster and keeps all milking units busy during the total milking process.

Features:

- Cluster support for comfortable milking.
- Durable heavy duty construction.
- Stainless steel swing arm.
- High throughput.
- Ability to easily add on extra features.
- Capital equipment minimal for maximum throughput.



Double Up Milking Parlour

Minimum Space with Maximum Performance

To create maximum output within a minimum space, double up parlours are a great option.

There is one milking unit per cow. The units are positioned at either side of the milking pit.

Pit lengths are considerably shorter with double up parlours than with swingover parlours allowing fast loading and unloading of cows & shorter walking distances for operators.

Features:

- Cluster support for comfortable milking.
- Durable heavy duty construction.
- Stainless steel cabinet option.
- High throughput.
- Ability to add on extra features easily.
- Install more units when restricted with space.
- Less operator walking.



Parlour Cow Standings

50 degree milking

Cow flow

A 50 degree milking position provides a fast cow flow due to the cow only having to turn 50 degrees into position. This speeds up cow entry and exit from the manger system on exit.

Comfort

Cows position themselves in a head on bely position in a herringbone fashion, with this when the cows increase in size (e.g. in calf) they fit more uniform & comfortably into the total length of the parlour.

85 degree milking

Comfort

85 degree milking position with the Pearson's sequential bailing or yoking system provides total comfort for the cow. Once locked into position there is no poaching or bullying occurring during the milking process.

Cow flow

85 degree milking with the sequential bail system allows fast entry & exit of the cows through the parlour.

Rump Rail Options



Truss Supports & Guide Rails

Stall work is supplied with overhead support trusses to hang the rump rails from. Manufactured from black steel and hot dipped galvanised gives durable long life support to your machine.



Tapered Straight Rump Rail

The most popular and cow friendly rump rail, allowing comfortable positioning along the rail for variable sized cows. The tapered rails allow the cow to come closer to the operator thus giving fast and safer cluster attachment.



Cranked Rump Rail

Long herringbone parlours with straight troughs avail of this option. The cows enter into the cranked position along the rump rail and cannot move backward.



Butt Pans

The stainless steel constructed butt pan keeps the milking pit clean and catches any dung before it hits the ground & flushes it to one end of the milking pit to a drain.



Sheeted Rump Rails

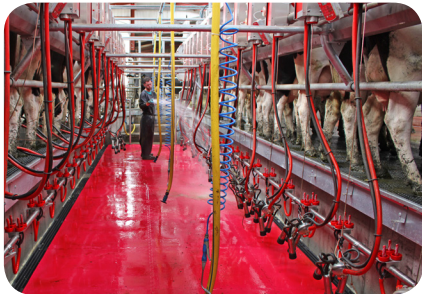
Stainless steel or galvanised sheeting can be constructed onto the rump rail design to keep the pit and operator safe from dung while in the milking pit.



Strength and Durability

All Pearson Herringbone Rump Rail and Stallwork designs are made from heavy duty black steel and hot dipped in galvanise providing long life against corrosion.

Rump Rail Options



Volume Wash System

A pressurised water system may be supplied into the parlour. This allows instant cleaning during milking, keeping the pit area cleaner and more hygienic.



Pit Kerb Rail

A galvanised or stainless steel folded kerbing is bolted to the side of the pit wall to ensure the animals hooves do not enter the pit. This encourages the cow closer to the pit edge and gives the operator easier access to the udder.



Parlour Chariot

If extra labour is available in a swing over milking system, the parlour chariot can get more jobs done in the pit other than milking!

Standing in the carriage, positions the operator at the perfect height to tail paint, condition score, AI and even scan your herd. Once one cow is completed, simply slide the carriage along a rail system up the parlour giving perfect access to all your cows.



Operator Comfort

Volume Wash Systems and Pit Kerbing give a comfortable parlour environment.

Automatic Gates



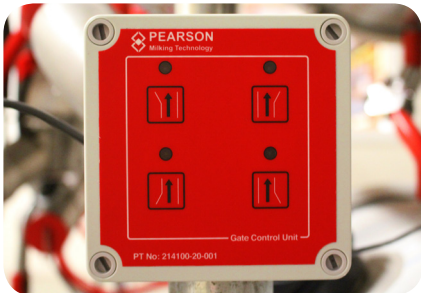
Entry Gates - 50 Degree

The Auto Wrap Around Entry Gates are made from heavy duty black steel and hot dipped galvanised. The gate is built into a guide rail system to allow single entry into the parlour. The gate wraps around the last cow pulling her into position.



Entry Gates - 85 Degree

The entry gates are made from heavy duty black steel and hot dipped galvanised. The gate is built into a guide rail system to allow single entry into the parlour.



Auto Gate Control

The Auto Gate control has four buttons, two for the entry gates & two for exit gates. Each button has an indicator light showing if the gate is open or closed. If there are multiple controls in the milking pit the boxes communicate to each other so a button may be pressed at any location to open and close gates.



Exit Gates - Automatic

To close the exit gate, press any one of the control buttons mounted in the pit. The gate will automatically close and lock in the closed position. This simple device speeds up the overall milking time and reduces operator movement.



Exit Gates - Automatic

The automatic guillotine gate lifts vertically to let cows exit the parlour. To close the exit gate, press any one of the control buttons mounted in the pit. The gate will automatically drop and lock in the closed position. This simple device speeds up the overall milking time and reduces operator movement.



Design your parlour
to maximise cow flow



Stallwork Systems

Durability, **Strength**, Design

All Pearson Stallwork is made from black heavy gauge steel and ends up as a fully galvanised construction, engineered for fast efficient installation, and designed to give maximum comfort to both the cow and the operator.

Stallwork - 50 Degree



Manger System

Experience gained with feeding routines in the parlour has strongly influenced this complex design of manger partition and trough. The manger trough has an angled front face for cows to lick against which ensures a quicker feed intake resulting in improved performance.

The angled panel helps align cows into their correct milking position, The longer bend on the front of the manger panel allows the cows to lift their heads and turn unobstructed, creating a faster exit when finished milking.

With the "zig zag" shape of the manger system, cows front legs fit more comfortably. This in turn gives a more comfortable, stress-free environment in the milking parlour.



Bully Bars - Anti Poaching System

While cows are getting meal in the milking parlour bullying or poaching may occur between stalls. This can cause unnecessary stress on both cows and operator during the milking process.

To Minimise this the Pearson Bully Bars are a great accessory to control cows in the manger system and ensure cow comfort when feeding. The manger panel positioned either side of the cow helps prevent against poaching by other cows.

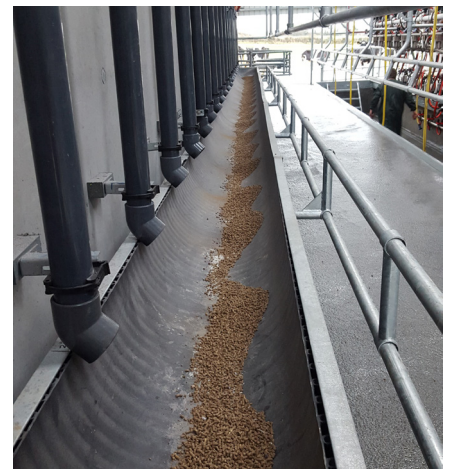




Breast Rail System

The Pearson Double straight breast rail consists of two rails. The top rail holds the cow in the correct position and the lower rail prevents the cow dropping her head and moving forward away from the operator.

A neck rail may be installed to prevent cows jumping forward over or on top of the breast rail.



Yoking System

Pearson Yoking system gives total control of your cows during milking. The cows enter the parlour & put their heads into the head locking system. Once all cows have entered the parlour a pneumatic ram closes the head locking rails to hold the cows into position. Once locked into the system the cow cannot poach or bully any neighbouring cow for feed.



Stallwork - 85 Degree



Sequentail Bailing System

Construction

A fully galvanised construction manufactured to last against the every day handling of dairy cows, suitable for 2'4", 2'3", 2'2" cow stands, driven by compressed air rams to give smooth operation. Rams are equipped with safety valves for when the bailing system is in the UP (Cow exit) position.

Comfort

To increase cow speed into the parlour, feed systems can be added with a stainless steel individual trough. The bailing system is equipped with steel dividers to prevent poaching or bullying, providing a more stress-free environment for all the cows in the parlour.

Durability

Once the cows are milked, the bailing system lifts up to allow cows to exit the parlour without obstructions, All rollers are made from a nylon material. This material is designed to be durable, self lubricating and long lasting for increased lifetime performance.





Control, Speed, Comfort

This system is ergonomically designed to speed up cow movement, give cow comfort, maximize feed intake, eliminate poaching of feed by other cows, reduce cow stress and assist in aligning the cows so as to have the best possible udder presentation for ease of milking.

Stallwork - 85 Degree



RED System - Rapid Exit Dispatch

The Pearson RED system has been designed to create maximum speed through a herringbone parlour with inparlour feeding. The RED System incorporates fast entry and fast exit into one complete unit.

Fast entry into the parlour occurs from the sequential bailing paddles preventing cows entering a unit half way up the parlour. The cows must go to the first or next available stall to enter a unit. This leads to a fast loading time for each row.

The fast exit speed comes from the feeding trough system in front of the cows lifting up allowing the cows walk straight out in front, clearing the milking platform in a matter of seconds.



Some of the key features of the RED System:

- A self leveling trough Prevents meal from spilling while lifting allowing better cow flow while exiting.
- The Sequential bailing paddles do not lift, this forces cow to walk straight out of the stalls and not move left or right along the cow stand.
- Once the cows move forward the bailing paddles close behind them, the entrance gate can now be opened and allow cows enter while the feeding trough is being lowered.





Smooth Controlled Exit

The Pearson RED system has been designed to create maximum speed through a herringbone parlour with in-parlour feeding. The RED System incorporates fast entry and fast exit into one complete unit.



Milking Equipment

Over 70 years designing and testing
Milking Equipment

With any Milking Equipment designed and manufactured by Pearson, comfort for the cow and comfort for the operator are key factors.

Providing reliable milking systems and a comfortable milking environment, Pearson aim to have less stress on the cow leading to better milk production.

Increased efficiency for up to 2500 milkings

Milking Liners

Performance

Pearson selection of large bore tapered barrel liners ensure fast milk out times, low slippage levels and maximum comfort.

Durability

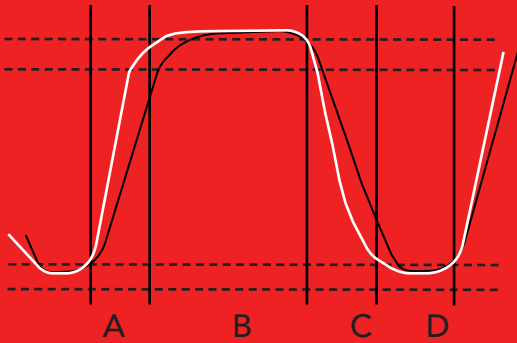
All Pearson Liners are moulded from a specific rubber compound to give maximum lasting within the shell and at the claw piece.

Comfort

Pearson's flared shell accompanies Pearson's liner range giving maximum comfort to the teat when in operation. The flared shell also holds the liner in place on the shell preventing the hood of the liner from slipping off the shell. This stops liners accidentally twisting in the shells preventing down time for the operator readjusting liner positions.



Pulsation Systems



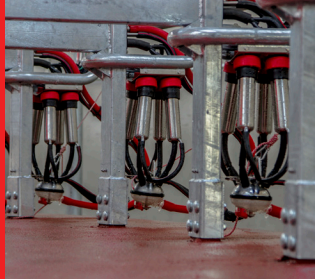
Reduced vacuum consumption to minimise costs without losing performance



Pearson's have been manufacturing pulsation systems since the early 70's



Well-known for being low maintenance and high performing



Each system is designed with cleanliness in mind and cleaned with filtered air and may be flushed with water



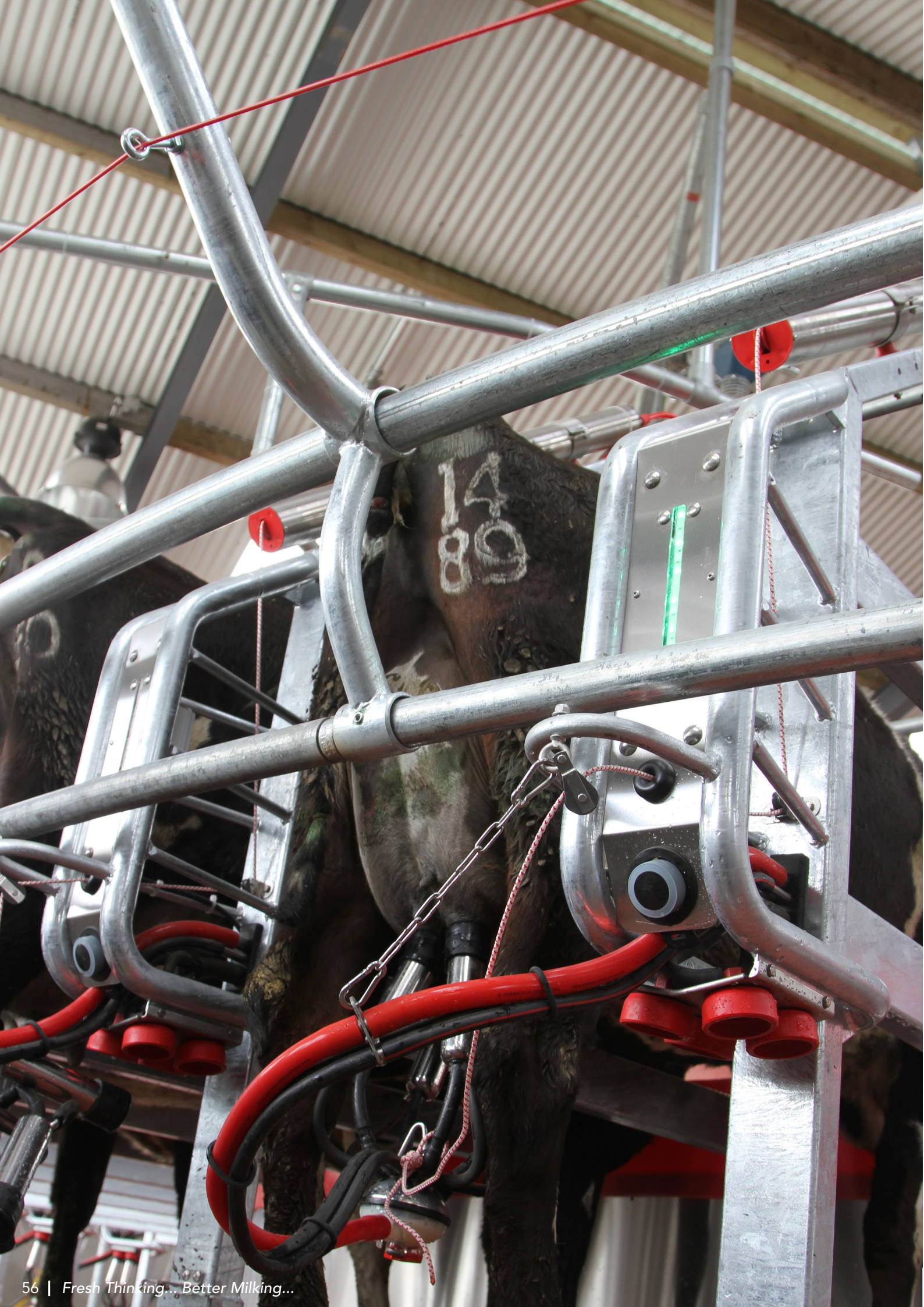
SmartPuls System

Increase Milking Speed

Installing one pulsator per cow maximises air flow to the teat cup chamber, allowing an increased response time in the A phase (opening the liner) of the pulsation cycle. This in turn maximises the B phase, speeding up the milking of the cow. Stimulation pulsation increases the pulsation rate, massages the teat at the start of the milking and encourages faster milk let down.

Reduced Maintenance

When the milking unit is started the pulsator starts working and the liners start milking, when the unit is removed from the cow the pulsator stops and the liners stop moving, this in turn reduces wear on pulsator items such as coils and diaphragms and keeps the liner elasticity in the shell stronger up to the changing date.



Milking Cluster

Tru - Flo Light Cluster

Flared Shell

The flared shell mimics the front of a calf's mouth creating a more comfortable experience for the cow.

Smooth continous surface for ease of cleaning.

Manufactured from Nylon for Light Weight and durability

Shell Options

Manufactured from stainless steel for long life.



Shut off point in the liner creates minimum vacuum leak at cluster attachment allowing faster and more comfortable cluster attachment.

Forward and rear facing short pulse tubes for a more compact cluster on the cow.

60 degree milk entry's allows faster direct flow of milk to the claw from the liner.

A 350 ml capacity claw piece enables this cluster to handle the fastest milking cows

Red Buffer to help prevent breakages.

Large bore outlet

The large bore 19mm outlet ensures fast milk flow & vacuum stability to and from the claw piece.





Vacuum Systems

All Pearson vacuum pump systems can be equipped with the well proven VDrive system, up to 2/3 of electricity powering the electric motors may be saved during the milking process.



Vacuum Pump Systems

All Pearson vacuum pumps are robustly constructed, highly efficient & are manufactured to the most stringent quality controls. The drive shafts are robust and are cast into the rotor. Large bearings are fitted ensuring a long trouble free operating life. Each vacuum pump has a double oil reservoir unit supplying fresh oil lubrication that guaranties minimum wear. Should the primary translucent oil bottle indicate empty, then there is enough oil in the secondary oil reservoir to maintain the vacuum pump for a further time period.

Pearson offer a range of vacuum pump units depending on the requirements for the milking plant. The EPM 60, B4 , B5 and Oil Free Lobe pumps make up the family. All vacuum pumps may be controlled by the VDrive system.

All Pearson machines are supplied with stainless steel vacuum tanks to ensure long life & durability.



VDrive - Variable Speed

VDrive Vacuum Saver System

The Pearson VDrive System is a frequency controlled vacuum pump system developed to only give the required vacuum needed to run the units in operation. While milking, the machine needs much less vacuum, than when the machine is washing due to air loss .

Installing the VDrive unit will manage the required vacuum needed by the machine. Coupled with Pearson's individual smart pulsation control on their ACR and Electronic Meter systems, savings of up to 75% power usage may be made on the electric motors running the vacuum pumps, leading to great savings on the environment and great savings in your pocket.

The VDrive system is available in three phase and single phase power supplies.

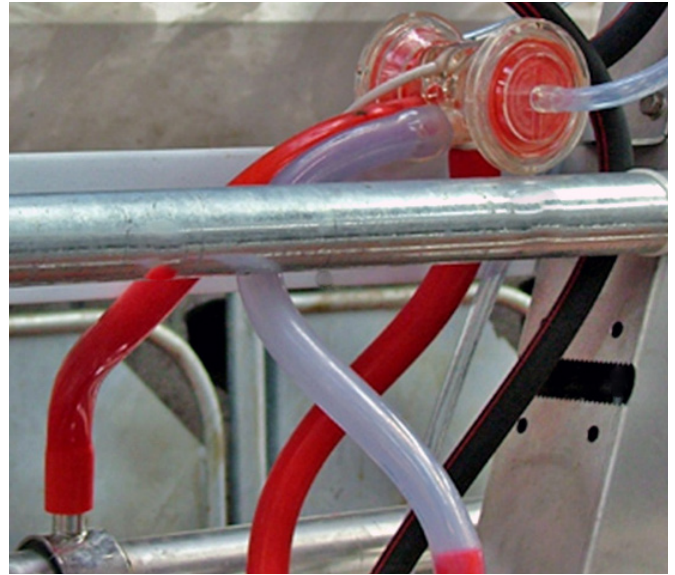
Milk Separation Line



Milk Separation Line

With the Milk Separation System, an individual cow's milk can be separated and redirected into another milk line; therefore cows do not have to be in separate batches coming into the parlour. This saves time and labour during milking.

- Simple and easy to operate.
- Reliable and long lasting.
- Can be fitted to any milking parlour.
- Available in different pipe sizes.
- Reduces workload in the parlour.
- Decreases overall milking time.
- Milk can be diverted to calf feeding house.
- Manual and electronic options available.



Milk Separation Control

Electronic - Automatic

An electronic milk separation control button is incorporated into all Pearson electronic control units. Once the button is pressed the operator is notified with either lights burning red or visual text on screen to show milk separation mode. Once the cow has finished milking the cluster remover removes the unit from the udder. The control unit will wait for the operator to press the stop button to acknowledge that the cow is finished, this then automatically switches back to the good milk line.

Once the machine is in wash mode the separation line is washed automatically with a special alternating washing programme designed to minimise the amount of water to wash both milk lines.

Toggle switch - Manual

Each unit is supplied with a vacuum toggle switch. Before cluster attachment the toggle switch is moved to select separation line. Once the cluster has been removed from the cow the toggle switch must be manually selected back to good milk line.



Milk Seperation at the touch of a button.



Milk Receiving, Delivery & Cooling

Providing the range to suit all dairies

Pearson's milk delivery system have been designed to cope with the demands of todays cows and quantity of milk being produced. Mixing technology and industrial milk cooling systems allow milk to be chilled to 4 degrees.

Pearson's range of milk pumps, milk filtration and plate cooling systems enable the farmer to maximise their milk quality, minimise energy and increase profit.

Milk Delivery System



Hi-Flo System

Performance

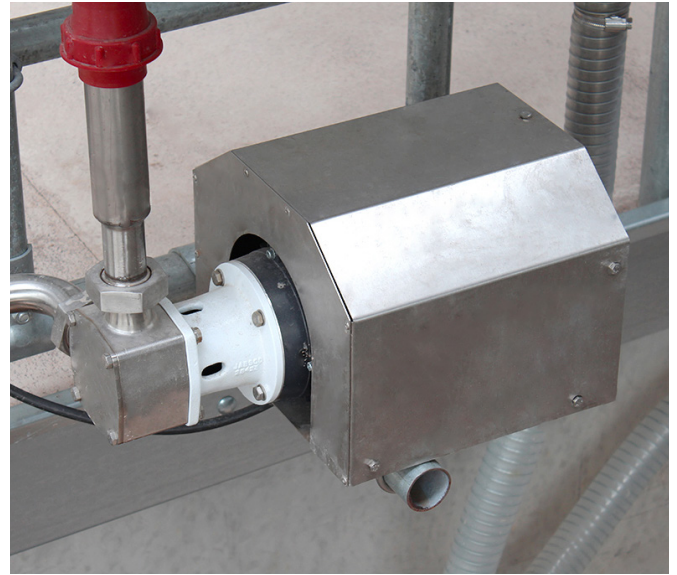
The Pearson Hi-Flo system moves milk through the delivery line using centrifugal force. An impellor inside the head of the pump rotates and moves milk through the line to the milk tank.

Durability

The Hi-Flo Milk pump comprises of a stainless steel pump head and a stainless steel impellor inside. These stainless steel components allow for maximum life and hygiene within the pump head.

Milk Cooling

When the Pearson Hi-Flo System is joined with the MDrive variable speed system the pump can be slowed down to reduce milk flow through the plate cooler resulting in cooler milk at the bulk tank and reduces energy consumption of the tank compressors.



Posi-Flo System

Performance

The Pearson Posi-Flo system is a perfect milk pump for cooling and removing froth from the receiving vessel in the milking pit. The pump moves milk through the delivery line through positive displacement. A flexible impellor inside the head of the pump rotates and moves milk through the line to the milk tank.

Milk Quality

The Posi-Flo Milk pump sucks the milk from the receiving vessel and pushes it up the delivery line to the milk tank, this action minimises the breaking down of the solids within the milk and increases the milk quality leaving higher protein and fat content.

Milk Cooling

When the Posi-Flo system is joined with the MDrive variable speed system the pump can be slowed down considerably to reduce milk flow through the plate cooler resulting in cooler milk at the bulk tank and reduces energy consumption of the tank compressors.

Milk Delivery System



MDrive Variable Speed

Milk Cooing

The MDrive System is designed to minimise milk flow through plate heat exchangers by slowing down the flow rate of the pump during the milking procedure. Pearsons cooling software programmed within the drive unit has special speed algorithms to work out the best flow rate and speed to drive the pump to get the maximum performance from your plate cooler and milk pump.

Options

Pearson MDrive Systems can be installed on any size milk pump and can be installed to suit single phase or three phase power supplies.

Washing

During the washing of the milking machine the MDrive System increases speed to return water back to the wash vessels for increased washing performance.

Safety

All Pearson MDrive Systems have industrial grade H1 filters pre installed in them to stop harmonic voltage from the drive units.



Milk Receiving Vessels

Strength

A stainless steel receiving vessel and moisture tank provide maximum capacity for milking in any size parlour.

Udder Health

Having a large capacity moisture tank so close to the machine allows a large vacuum buffer directly at the parlour, this reduces vacuum fluctuations and provides a more stable vacuum for udder health.

Hygiene

Both tanks have see through end caps for easy viewing to make sure both tanks are cleaning correctly. The barrel shape of the tanks allows the Daytona wash system to roll the water giving exceptional cleaning to the receiving outfit.

Milk Delivery System



Milk Filtration & Cooling

Stainless steel inline sock filters are used to filter the milk before the plate cooler or bulk tank. Double stitched socks are placed over a stainless steel coil spring and inserted to the stainless steel housing. Pearson supply a full range of filter sizes to suit all pump flow rates.

Plate cooling

By using an average ratio of two and a half parts water to one part milk, it is possible to reduce the temperature of the milk to within 2 degrees centigrade of the water input temperature.

Single Stage - The single stage plate cooler passes well or mains water through the cooling plates.

Double Stage - The double stage plate cooler passes well or mains water through the first half of the cooler and chilled ice water through the second half. Using the Pearson MDrive system with a double stage cooler can bring milk to 4 degrees before the bulk milk tank.

Save Water

Adding a water solenoid on the water input side of the plate cooler unit allows the water to be automatically turned off a short time after the milk pump stops, this reduces the amount of water going to a holding tank or to waste.



AirForce Injector System

Milk Quality

The Pearson AirForce Injector System blows the milk from the milk pump to the milk tank using compressed air. This minimises the milk left in the delivery line after the milking has finished. The compressed air used for pumping out the milk runs through a triple filtration system leaving food quality air and having milk at the highest quality.

Milk Cost

How much milk may be left in your milk delivery line. Calculate it yourself :

$3.14 \times \text{radius squared} \times \text{length of pipe} = \text{litres left in the pipe.}$

Example

40 mm Milk delivery line, 4 meters high from your milk pump.

$(3.14 \times (20\text{mm} \times 20\text{mm})) \times 4 \text{ meters}$

$(3.14 \times 400) \times 4 \text{ meters}$

$1256 \times 4 \text{ meters}$

$= 5.24 \text{ litres, at a cost of 35 cent a litre}$

$= 1.75 \text{ euros} \times \text{twice a day milking}$

$= 3.51 \text{ euros per day}$



Fast Efficient Milk Cooling
= Milk Quality



*P*arlour Automation

*A*uto Cluster
Removers

*M*ilk Measurement

*M*anagement
Systems

Milking Point Control



Global Control Unit

An automatic cluster remover designed to provide essential functions for comfortable milking for the operator and the cows. The Global Control is a cluster remover with a simple push button and Halo indicator light for simple and easy control.

- Automatic cluster remover on good milk line
- Automatic cluster remover on reject milk line
- Auto lift start
- Smart Puls - Pulsation control
- Stimulation Pulsation
- Smart Comm - communication control
- Milk diversion control



P50 Control Unit

A great milking companion in the pit. Giving feeding controls, gate controls and alarm display, it is a perfect unit to give maximum milking pit efficiency.

- Automatic cluster remover on good milk line
- Automatic cluster remover on reject milk line
- Auto lift start
- Smart Puls - Pulsation control
- Stimulation Pulsation
- Milk diversion control
- Visual alarm display
- Milking time display
- Upgradable to milk yield display (Apollo Meter)
- Feed unit control
- Gate control
- Smart Comm - communication control
- Cluster Flush control



i100 Control Unit

For total control of information in the milking parlour the i100 milk control unit is the ideal partner.

- Automatic cluster remover on good milk line
- Automatic cluster remover on reject milk line
- Auto lift start
- Smart Puls - Pulsation control
- Stimulation Pulsation
- Milk diversion control
- Conductivity indicator
- Visual alarm display
- Milking time display
- Gate control
- Auto Identification
- MRS heat detection display
- Auto feed functionality
- Calendar alarm display
- Individual animal control settings
- Smart Comm - communication control
- Milk Yield Display (Apollo & Pulsa Meter)



Global MPM Monitor

Part of Pearson's range of industrial dairy systems is their state of the art Touch Screen Parlour Monitor. Integrated into the ProFarm system it allows the simplest visual display and control to the operator with all the animal information displayed and available at the Global MPM Parlour Monitor.

A great milking companion in both a rotary or herringbone parlour. Giving milk yield display, alarm display and many more options, it is a perfect unit to give maximum milking pit efficiency.

Some Features of the Global MPM Monitor include:

Hardware

- Animal Identification
- 5 way selection
- Control retention bars
- Voice alarm
- 4 Camera display
- Milk separation control

Software

- Animal Data
- Milk yield in real time
- Separation milk display
- Cow calendar information
- Colour coded alarms
- Heat detection Alarm

Voice Alarm System

For voice output of information in the milking parlour the Pearson Voice Alarm system keeps you alerted to oncoming cows information while entering the parlour





Enjoy a great Start to every milking

Auto Lift Start

To start the unit, the milking cluster just has to be lifted . This turns on vacuum to the unit and starts the pulsation system ready to milk.
This increases speed and work flow through the parlour for the operator .

Auto Swing Start

To start the unit, the swing over arm is moved to the opposite side of the pit for the next cow. This action will automatically turn on vacuum to the unit and starts the pulsation system ready to milk.
This increases speed and work flow through the parlour for the operator .

Forward Motion Start

Forward Motion control has been developed to give a clearer view of the cows udder and speed work flow through a Double Sided parlour. Once the cow has finished milking, the cluster is removed from the cow and is lowered close to the ground. This allows the operator to post spray and view the cows clearly. The clusters are still in the down position while the cows have exited and a new row is ready to enter the parlour. This is to allow prework on the new cows with no clusters in the way of the operator. once a cluster is started the cluster in front of the operator will lift ready to start. This will continue untill all clusters are applied to this row.





Apollo Milk Meter

The Pearson Apollo Milk meter is an extremely useful tool for managing your cows in the parlour.

The Apollo milk meter features the following:

- Precise milk measurement with unrivaled milking performance on high yielding free flowing cows.
- View milk yield of a cow, which helps make decisions about feed amount, illness and dry off dates.
- The milk meters manufactured from the highest grade of materials to ensure the longest possible working life of all components.
- Washing is a hugely important feature with any milk meter flask - Water enters the meter at a fast rate and creates turbulence within the meter washing every surface.
- Milk sampling device available.
- Can be used with both the P50 and i100 keyboards



Palsa Meter

Approved by the International Committee for Animal Recording (ICAR). The PalsaMeter accurately records milk yield and milk flow, providing the farmer with key information for better herd management.

The PalsaMeter features the following:

- Accurate weight milk measurement with no disturbance to the milk or air flow.
- A milk sampling device is provided.
- The PalsaMeter works in conjunction with the i100 keypad providing milking information in the parlour.
- The compact and durable design means low services costs.
- Low maintenance device.
- Minimal calibration required.

The **future** for professional
farm management

ProFarm Management

Profarm provides the user with data storage and analysis tools, helping dairy farmers make the right decisions for more efficient farming.

View every aspect of your dairy farm **through technology**

From our many years of working with dairy farmers we realise farm systems differ and with this in mind Pearson has created ProFarm to be fully customisable. The farmer can choose the number of components he would like and control what data is collated and shown on the software. The ProFarm system is flexible so that when you upgrade your milking equipment you can do so without having to change your farm management software.



Animal
history data



Health
Monitoring



Easy to read
graphs & reports



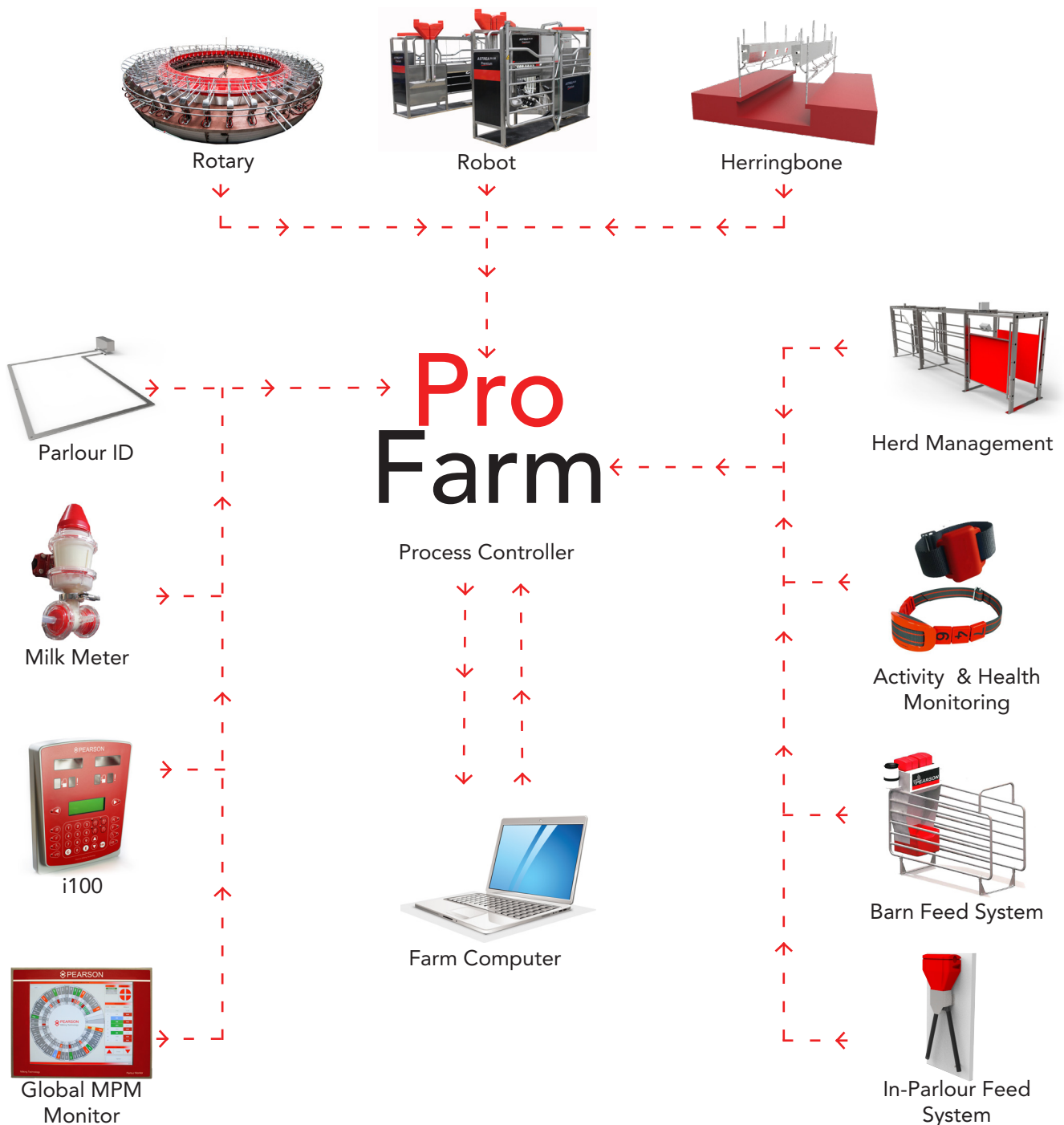
Accurate
feed distribution



Animal
Identification



Bring everything together at the touch of a button...



This management software system distinguishes itself through its very user-friendly operation and well-organized grouped information. It is extremely simple to enter & retrieve information or change cow specific settings, characterise the user-friendliness of this management program which is completely Windows related.



Animal Health & Heat Detection

Prevention is better than cure

Whether it is an effective pre or post milking routine or just having the correct equipment installed to keep bacteria and cross contamination at a minimum. Preventing the problem before it starts, keeps stress, work load and cost to a minimum.

Pearson SmartTag provides accurate heat detection with health monitoring for your herd 24/7. With a simple and clear interface for smartphone, tablet or desktop, you can easily plan insemination, monitor health and draw up and implement treatment plans.



Teat Spray - Herringbone

For Herringbone parlours pre spraying or post spraying cows can be done very simply with a Pearson Teat spray unit. Connected to the vacuum line, a small valve system pumps teat dip to a hand held lance in the pit allowing fast and accurate spraying of the cow's teats.

ATS Teat Sprayer - Rotary

Operation

The Automatic Teat Sprayer is a useful tool on any rotary platform. The teat spray unit is positioned at the exit or entrance of the platform and sprays the cow with either pre spray or post spray.

The intelligence system incorporated into the unit can determine if there is a cow in the bail, whether she has finished milking (only if retention bars are present) & the best moment to spray on the table position.

Material

The Teat spray unit is manufactured from stainless steel to cope with the harsh environment at the exit of the rotary. The flexible nozzle assembly constructed from nylon allows flexibility should it come across a cows leg. All materials are easily washable and very durable.





AirStream Cluster Flushing

The spreading of mastitis can occur from high amounts of Staph Aureus bacteria remaining in the liner after milking an infected cow. These bacteria can be spread to the next cows during the milking process unless properly cleaned, this is known as cross contamination.

Pearson's Cluster Flush System back-flushes the cluster after every cow.

The cluster is flushed with a parasitic acid and injected with compressed air to give a maximum washing and drying routine.

The Pearson Cluster Flush System can fit onto any parlour without any alteration to the existing milking equipment.

Lower the spread of infection

When a cow has been milked in the milking parlour a spreadable infection can be carried in the cluster to between 6 – 8 cows, the three areas of the cluster that must be cleaned before applying the unit to the next cow are:

1. Liner Head
2. Claw Piece
3. Long Milk Tube



Heat Detection with Health Monitoring

Know exactly when to take action....

SmartTag System

1-to-1 attention,
no matter how many
animals you have.

Attention to individual level is the key to optimal performance from your animals. But what do you do if you have 100, 500 or 1000 cows? Or maybe even 5000 cows? That's when you need Pearson Heat Detection with Health Monitoring. This gives your animals optimal, 1-to-1 attention no matter how many animals you have or how big you expect to grow your farm.

With Pearson Heat Detection with Health Monitoring you can track individual animals and take preventive action if necessary. Always knowing the current state of health of your animals and accurate heat detection will save you time and money, and you can once again work 1-to-1 on the performance of your animals every day.

Benefits at a glance....

1. Accurate Heat Detection 24/7
2. 90% heat detection rate
3. Indoor and outdoor antennas
4. Monitors the health of individual animals and the entire herd 24/7
5. All the information about your animals at your fingertips any-time.
6. Available as SmartTag Neck and Leg
7. SmartTag for Heat Detection with Health Monitoring for beef cattle too
8. Optional ISO identification
9. More control over an animal's health and reproduction status; short payback period



Pearson Heat Detection with Health Monitoring:

See more than an expert eye

On average, Pearson Health Monitoring warns of cows needing attention two days earlier than can be detected by the most expert eye. Thanks to this early warning, you can intervene at an early stage. This saves time and energy and reduces loss of milk and the use of medicines. Pearson Health Monitoring gives you continuous insight into the wellbeing of both individual animals and the entire herd.

We provide the best solution for every farm, irrespective of size!

In addition to heat detection, Pearson SmartTags bring you health monitoring in the form of Standing and Lying times and Eating Monitoring depending on the SmartTag type (Leg or Neck).

“One sick cow
takes up just as
much time as 40
healthy cows.”

Joep Driessen, CowSignals Training Center, part
of the Vetvice Group.



Averages



12–14 hours
resting/lying time



11 lying periods



2500–3000
Number of steps
per day



4–6 hours eating



9–14 meals per day

Grant, R. 2003 (Western
DairyManagement Conference)



Pearson SmartTag Leg with Standing and Lying Monitoring

The SmartTag Leg measures the cow's behavior, such as:

- Number of hours lying/resting.
- Number of hours standing.
- The total number of steps that a cow takes per day.

If differences are signaled in relation to the previous period, you know that there could be something wrong with the animal.



Pearson SmartTag Neck with Eating Monitoring

This lets you measure the total time per day that an animal spends eating. The SmartTag Neck also issues an alert when a cow has not eaten for a specific period of time. Cows with acute problems like mastitis & ketosis or acute udder infections stop eating. "Not eaten" alerts or deviations in feeding behavior are early warnings of possible health problems.



The user interface is suitable for both computer and mobile applications.

Doing the best for the fertility and health of your animals at any time and in the smartest way possible. That's what the interface allows you to do.

This Heat Detection with Health Monitoring system quickly and simply gives you, and your employees, an overview of individual animals or your entire herd. Which animal needs more attention? Which animals need to be inseminated today?

The alerts show differences in the behavior of your cows. You will see all of the alerts from the SmartTag Neck and Leg in a clear interface. The alerts are easy to receive on your smartphone, tablet or computer. Here you will see at a glance which animals need attention from you or your employees in the field of Heat Detection with Health Monitoring.



*C*leaning Systems

One of the most important features of your milking plant is the washing equipment and washing routine. Give your milking systems a total clean with Pearson's range of CIP options.

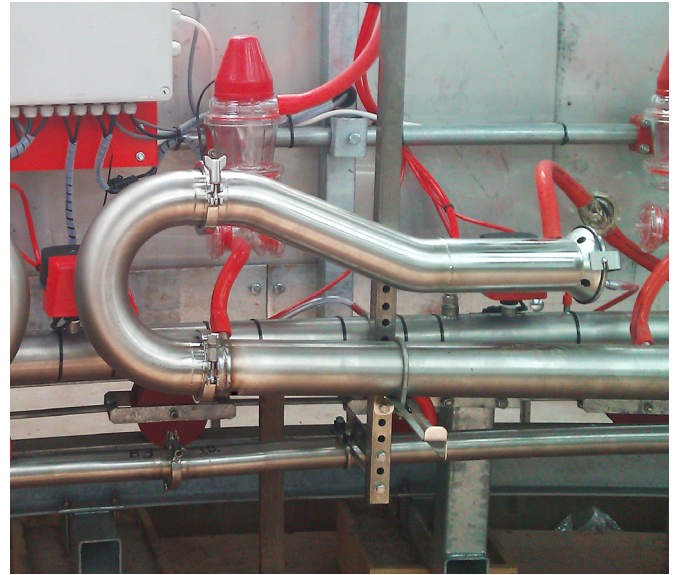


Low Line Wash

The Low Line Jetter Wash System is mounted on the wash line. The candle stick ensures fast accurate placement of the cluster on the jetter plate with minimum bending. With the unique jetter cup, the face of the liner gets fully washed.

Features:

- Polyurethane candle sticks
- Liner head gets fully cleaned
- Stainless steel mounting plate
- Allows automatic cluster removal



Daytona Wash System

To be able to wash large milk lines correctly using the minimum amount of water is in itself an achievement.

The secret is in being able to cover the total inside surface area of a large bore milk-line using a smaller bore wash line.

By creating a slug of water within the stainless steel Daytona Washer and then injecting this slug of water down the pipeline at high speed many times a minute, allows perfect cleaning of the internal diameter of large milk lines.

With the unique jetter cup assembly, the face of the liner is fully washed.



Wash Troughs

- Totally manufactured from stainless steel.
- Can be sized to suit parlour needs.
- Long-life product.
- No chains or plugs needed.
- Wall mounted for ease of cleaning underneath.
- Eliminates the need to put hands into chemicals.
- Can be floor mounted, if required.
- Has insulation between each trough, eliminating heat transfer between troughs.
- Hygienic appearance.
- Can be supplied in single or double units.
- Available in closed and open models.



Water Boiler Units

Dairy water boilers are manufactured by Pearson especially for dairy farms. It has a stainless steel internal tank and automatic header tank for long life and water efficiency.

The Pearson water boiler empties all its hot water before refilling with cold water so the maximum temperature of water circulates the milking plant at all times.

- All stainless steel water containers.
- Stainless steel header tank.
- Adjustable water quantities delivered.
- No hot / cold mixing during water draw off.
- Stainless steel exterior (optional).
- Available in varying sizes.
- Especially designed to wash milking machines.
- Heats water up to 100 degrees centigrade.

<u>36 Gallon</u>	-	<u>1 x 3 kw element</u>
<u>50 Gallon</u>	-	<u>1 x 4 kw element</u>
<u>75 Gallon</u>	-	<u>2 x 3 kw elements</u>
<u>120 Gallon</u>	-	<u>3 x 3 kw elements</u>

Automatic Wash



Ocean Automatic Wash System

Pearson boasts in having one of the most advanced machine washing units on the market. Some of the features incorporated in the ocean washer are:

- Large selection of wash programmes
- Vacuum pump control
- Milk pump control
- Slug wash control
- Air injector control
- Suck up valve control
- Chemical dosing units
- Tank safety switches
- Rotary tank valve control
- Water heater control
- Temperature sensors

The **Benifits** of the **Ocean** Automatic Wash System



A sensor is placed at the milk delivery line to monitor whether the bulk tank is connected.



Equipped with seven wash programmes with the flexibility to suit any machine. Includes three farm programmes that can be individually set to suit the users needs.



Water temperature is constantly measured and if the temperature drops an alarm is activated.



With the Pearson innovative suck up valve, the wash cycle takes less time to complete which in turn shortens the milking machine's running time.



User friendly visual graphics on the key-board to ensure an easy to use system.



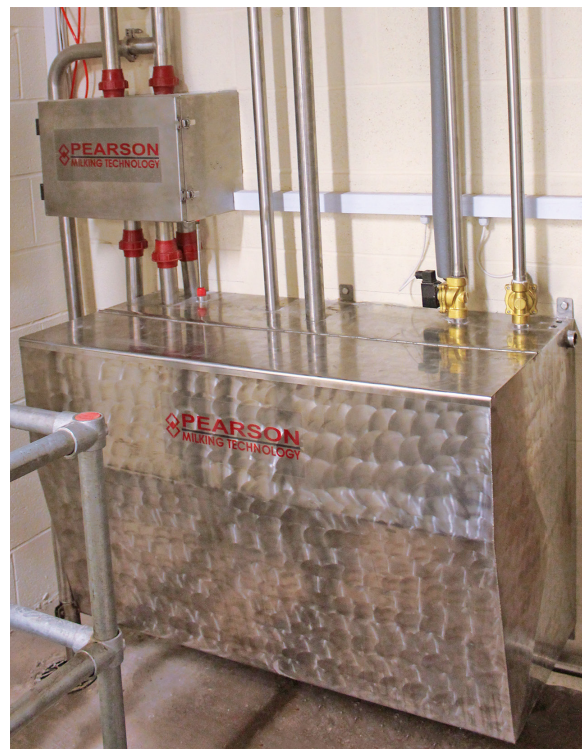
During milking, less vacuum capacity is needed from the vacuum pumps than during washing, the Ocean Washer is capable of automatically selecting the number of pumps needed to give the required vacuum.

Valve Unit and Wash Trough

Pearson's valve box and wash trough are constructed from stainless steel. All control and water valves are within the valve box, with an easy open lid for service requirements.

The control panel may be detached depending on the installation, allowing all water items in a separate wash room e.g. wash trough, water heaters, etc. Pumping units suck the chemical required from the drums and pump it directly into the wash trough.

* With a detachable control panel, the wash trough, chemicals and valve box may be installed in a separate room with the control unit positioned in the dairy for easy access and tidiness.





Feeding Systems

Reliable, **Accurate** and Durable

Time taken to feed cows in a parlour can be utilized to give precisely controlled quantities of meal. In the case of high yielding cows this may take the form of a supplement in Out-Of-Parlour feeding. Whatever the system, the price of meal demands that feeding must be carried out with the utmost accuracy.

Pearson offers a range of feeding systems from low level, easily fitted manually operated systems, to fully automatic, electronically controlled systems.

Feeding Options



Tru-Feed - In Parlour

The Pearson Tru-Feed In Parlour feed systems come in two options:



Tru-feed
electric auger



Tru-feed Dual
Electric Auger

Rugged construction

The Pearson Tru-Feed systems are constructed of a large blow molded feed hopper.

Extremely accurate

Tru-feed system - portion accurate to 100g

Vermin and splash proof

All Pearson Tru-feed hoppers have vermin proof and splash proof feed lids to ensure the feed inside the hopper is kept dry and in good condition.



Tru-Feed - Control

Different dairy farms require different feeding controls in the milking pit. Whether it's an all year round calving platform or single calving platform Pearson offer controls to suit your herd.

Multi feed control

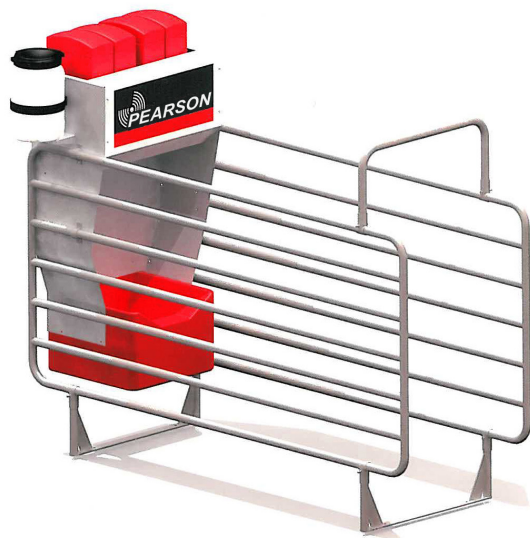
The Multi feed control unit allows feed amounts to be entered from a single box in the milking pit. Individual feed amounts may be entered into the unit as the cows enter the parlour.

Batch and top up control

For single calving herd platforms batch controls and individual unit controls may be installed, once the cows have entered the parlour at batch amount is given to the row of cows, while at the unit before cluster application the cow may be topped up.

Automatic Feed to yield

If Pearsons milk meters, herd management and auto identification system is installed on the milking parlour, feeding to yield may be used. Cows may be set on a feed curve following the cows lactation, milk yield or calving time.



Out of Parlour feeders

The Pearson out of parlour feed system can offer total control for feeding dairy cows. To get the best performance from your herd, Pearson allow a maximum of four different feed types to be mixed & dispensed to the cow. A liquid additive within each feed station may be installed.

Smart Operation

The feed falls into the feed trough at the same time from the synthetic hopper. Once the feed has been dispensed the anti-spill valve automatically closes the auger of the feeder. This stops any feed falling into the trough, preventing animals bumping the feeder to release more meal.

Electronics

The parlour electronics are thoroughly tested during and after the production process, and are mounted in the actual feeding stations. This guarantees simple and quick installation, and results in reliable, low maintenance operation of the feeding station and its electronics.



Flexi Auger Systems

The Pearson Auger System contains a 90mm outer sleeve and a 70mm inner spiral which allows it to carry nuts and mixed ration. A motor is mounted at each side of the parlour at the ends of the auger pipe pulling the nuts from the bin. This eliminates any drop down boxes or corner gear boxes being needed.

Whatever the system, the price of meal demands that feeding must be carried out with the utmost accuracy.



Herd Management

Maximise Cow Flow, Minimise Labour

With increasing cow numbers on farm and larger parlours being installed cow flow has become a huge factor in milking time and labour units. Installing equipment to increase cow flow enables fewer operators manage larger numbers of cows.

Crowd Gates



Commander Crowd Gate

The Pearson Commander Crowd Gate is a combination of a backing gate and scraping system. The gate moves the cows forward towards the parlour entrance in a smooth motion. Once the gate reaches its maximum point, it changes over. On the return back to its parking position, it scrapes the collecting yard, leaving it clean for the next milking.

Hydraulic Rail System

For slow, steady movement towards the parlour and strength when needed, a hydraulic system is used to drive the backing gate.

Gate Construction

The gate is manufactured from heavy duty steel and is then fully galvanised. A strong hock rail at the front of the backing gate is to ensure good cow movement towards the parlour.

Control

A control unit is situated at the back of the milking parlour to activate the backing gate. A timed forward motion brings the cows up to the parlour and a home button brings the gate back to the ram box position. Extra switches may be installed on the parlour entrance gates to automatically activate the backing gate.



Revolve Crowd Gate

The Pearson Revolve Crowd Gate consists of two gate units, the first is an idle gate to guide the cows into the parlour and the second is the moving gate which rotates around the yard behind the cows keeping them up to the parlour entrance.

Drive System

The Revolve crowd gate is powered by compressed air, an industrial pneumatic motor is connected to the drive system to move the gate.

Durability

Both gate structures are manufactured from heavy duty black steel and hot dipped galvanised to last for many years.

Groups

The Revolve crowd gate is able to do groups of cows. Once the first group is finished the idle gate may be moved to the other side of the parlour entrance and then the moving gate rotates the opposite way.

Safety

There are no electric motors or electronic controls on the gate thus preventing any stray voltage or electric failures in the outdoor environment.



Voyager Crowd Gate

With the Pearson Voyager Crowd Gate, cows can easily be brought towards the parlour in groups. Once one group has been brought through the parlour, the gate lifts up and travels over the cows to the back of the collection yard and brings up the next group of cows. This is suitable for farms that have herds larger than the collection area behind the parlour.

Drive System

Pearsons Voyager crowd gate is driven by a compressed air motor and pneumatic rams. This ensures a long life product for indoor and outdoor use and no risk of stray voltage or electronic failures on the gate.

Yard Cleaning

Add a scraper unit to the gate and get another job done. As the gate moves forward or backwards depending on the slurry channel the scraper cleans the collecting yard.



ProSelect Drafting

Whether it's a large herd dairy or a family farm with one operator Pearsons ProSelect drafting systems is an essential tool for the day to day running on the farm. The ProSelect system can offer two way to five way drafting, with easy to use controls and a calendar system on the more advanced options.

The drafting units use red eye sensors to monitor cow movement and flow through the selection crate. This enables the control system to know when to close and opens gate to get the best selection possible.

V – Tag Systems

The Pearson stand alone V-TAG system offers an effective low cost solution to drafting cows. A tag is applied to the cow while in the milking parlour and is then selected when exiting the parlour. The tag is then retrieved after the cow has been seen to.

E - Tag systems

Selecting cows in batches for barns or individual selection for illness, A.I. activity, etc can be automatically done from the parlour with the ProSelect E-Tag System. Up to three way drafting may be controlled from this system. "Once only" or "always" options may be selected.



Milk Bulk Tanks

Maximum Storage With Minimum Space

Pearson provides a complete range of milk cooling systems for today's modern dairy farms. All our milk storage tanks are made with simplicity of design in mind and a focus on putting you in control whilst at the same time ensuring that milk is cooled with optimum efficiency and maximum reliability.

Bulk Tank Options



Tower Milk Silos

Maximum storage with minimum space with an ever increasing demand for high volume on-farm milk cooling and storage, the Pearson Milk Silo provides the perfect solution where it is often impossible & uneconomical to extend existing or to build new premises to accommodate conventional milk tanks.

Features

- Option of side-wall cooling evaporator.
- Hygienic milk-sampling system.
- Stainless steel alcove installed through wall to dairy incorporating:
 - Wash & cooling controls.
 - Bottom access manway.
- Non-Return valve for bottom filling
- CIP milk line connection.
- High density insulation.
- Stainless steel access ladder with safety cage.
- Available in ice bank and direct expansion.



Classic Milk Tank

Milk is cooled directly by a condensing unit circulating refrigerant through the laser-welded evaporator plates of the milk tank, against which the milk is gently agitated.

Features

- Elliptical shaped milk vessel for maximum cooling efficiency.
- High density polyurethane foam insulation.
- Service friendly easy to use control systems.
- Automatic wash system with:
 - Adjustable programmer to suit varying on-farm conditions.
 - Stainless steel detergent bowl.
 - Optional automatic dosing with adjustable flow-control peristaltic pumps.
- Stainless steel water deflector Plate that has no wearing parts and is blockage proof.
- Water intake separate from agitator preventing damage to motor.
- Quick wash facility.



Chiller Ice Builder

By using a Pearson Ice Builder to produce and store large quantities of ice, chilled water will allow instant cooling of milk, reduce the risk of bacterial growth and when used to take advantage of "off peak" electricity it will drastically reduce running costs.

Features

- All stainless steel slim-line compact design.
- High density insulation.
- Dual-setting ice controller for maximum/minimum production.
- Condensing unit(s) attached or remote.
- Two chilled water pumps.
- Air assisted agitation on larger models.

*Fresh Thinking...
Better Milking...*



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