Innovation in and out of parlour

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HD90G-RE Goat Rapid Exit Milking Parlour

High quality, UK designed and assembled rapid exit milking parlour for goats.

The HD90G-RE rapid exit goat parlour provides you with a high quality, engineered solution for a reasonable price. Whether you are looking for a basic parlour or complete automation, this parlour can cater for you.

The high quality galvanised stallwork, with stainless steel panelled entry and exit gates, is designed to withstand the rigours of milking goats for many years. The high capacity milk and vacuum lines provide efficient milk transport and stable vacuum levels meeting the ISO standards.

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Parlour Features

- Low level, 90 degree goat standing, 375mm centred rapid exit milking parlour provides an unobstructed view of the goat, with optimal udder presentation and access through the rear legs;
- Goat friendly stalling design ensures excellent goat position and optimal operator working space;
- Galvanised steel conduits carry all wiring, protecting both the wiring and control units from the goats and including removable covers for easy access;
- Simple installation with bolt together, heavy duty hot dipped galvanised steel frame and stokboard flipper gates for long life and low noise operation;
- Compressed air vertical entry and exit gates with stainless steel panels - gates are controlled by electronic control units at optimal locations in the pit;
- Unobstructed entry and rapid exit gates provide fast goat flow and quick side changeover;
- Goats relaxed and ready for milking.

Stallwork Features

- Heavy duty, bolt on, galvanised steel pit kerbing;
- Double tubular galvanised steel rump rail for guiding goats on entry walkway and operator protection;
- Vertical exit gates lifted by compressed air and stainless steel rope with pulleys and counterweight to reduce strain on cylinders and for long life;
- Galvanised steel panelled stall divisions with mesh ceiling to provide safe and secure environment for each goat during milking;
- Flipper gates lock in position automatically using push-pull mechanism ensuring good animal position for cluster attachment;
- Parlour steps optional;
- Entry races and exit end fencing optional;
- Operator gate at exit end optional.

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Entry Gates

- Compressed air operated entry gates;
- Vertical ‘guillotine’ gate;
- Galvanised steel box section frame with stainless steel panel to give long life;
- Gate speed is variable and controlled by it’s own regulator on compressed air supply;
- Gates controlled by electronic control units at optimal locations down the parlour;
- Link to Pegasus Walkthrough Auto-ID system allows gate opening to start ID system for optimal identification.

Exit Gates

- Compressed air operated exit gates;
- Vertical ‘guillotine’ gate;
- Galvanised steel box section frame with stainless steel panel to give long life;
- Gate speed is variable and controlled by it’s own regulator on compressed air supply;
- Counterweight is used in conjunction with each exit gate to reduce strain on air cylinders and provide smooth operation;
- Gates controlled by electronic control units at optimal locations down the parlour.

Flipper Gates

- The flipper gates are used to sequence the goats entering each stall - they are also known as sequence gates;
- The first goat opens the first stall flipper gate upon entering the stall, this allows the second goat to open the second stall flipper gate, and so on, sequencing the goats as they enter the stalls until the last goat has entered the parlour side;
- The flipper gates have a galvanised steel frame and stokboard panel for low noise operation and long life;
- The flipper gates are attached to the Push-Pull System via stainless steel springs.

Entry and Exit End Fences

- Provides single file entry race with V shaped guidance of animals into parlour, fencing with gate into parlour at the exit end and fence to prevent goats walking back up towards entry end on exit from parlour;
- The 6 bar tubular hot dipped galvanised steel construction comes with a unique mounting system which means they can also be used as a gate if required;
- Exit end fencing includes operator gate for entry to the milking pit;
- Available as option.

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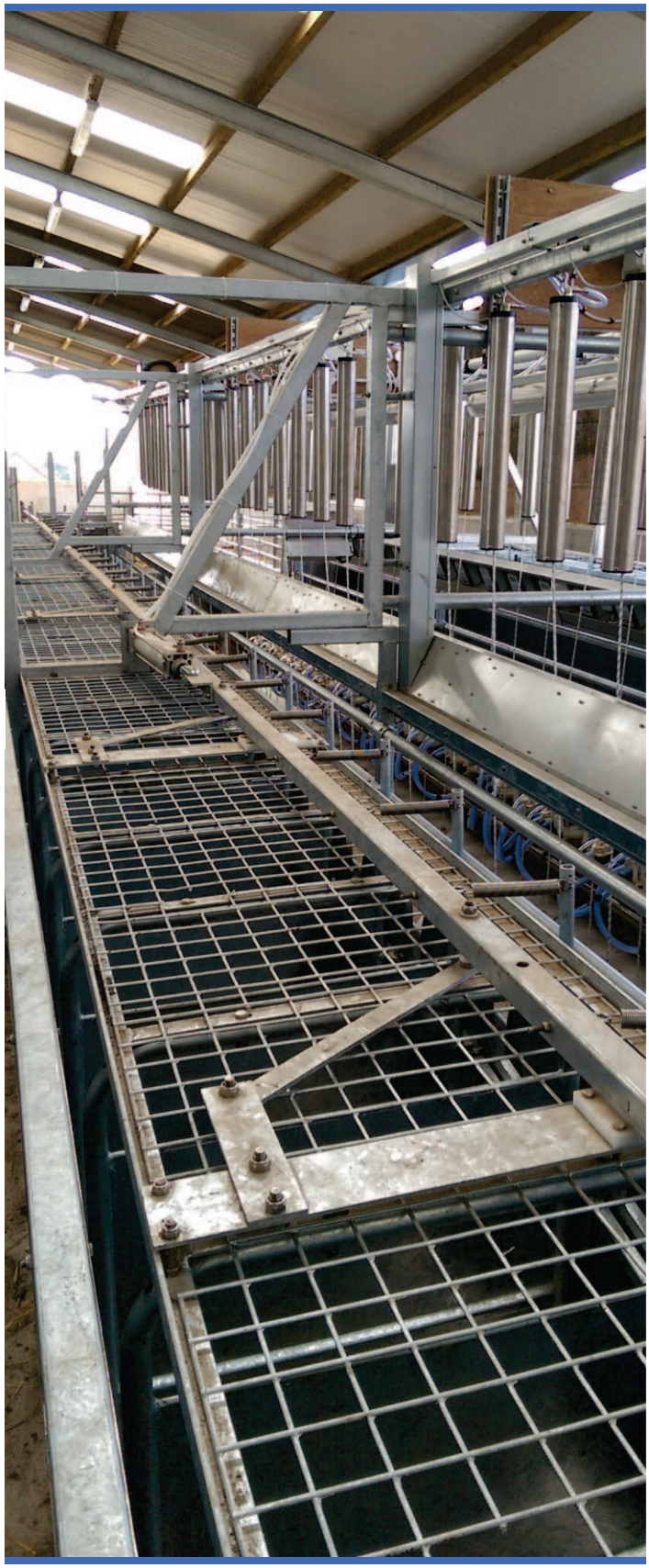
Push Pull System

- The push pull system locks the flipper gates into position when the parlour entry gate closes;
- The system is designed to remove the pressure of the flipper gate from the goats side so they are not uncomfortable during milking;
- This is particularly important for first lactation goats as the pressure of the flipper gate can cause them to turn around and face the wrong direction.

How does it work?

- A sliding bar is installed on top of the goat standings. The bar slides on a number of acetal blocks and is moved by a compressed air cylinder. A spring is attached from the bar to each flipper gate;
- The position of the sliding bar controls whether the flipper gate is locked or unlocked;
- Once a side is full of goats, the sliding bar moves into the locked position, holding the flipper gate away from the goat;
- Once a side has finished milking, the sliding bar moves into the unlocked position just before the exit gate lifts up, allowing the flipper gates to close, ready for the next side of goats to enter the parlour.



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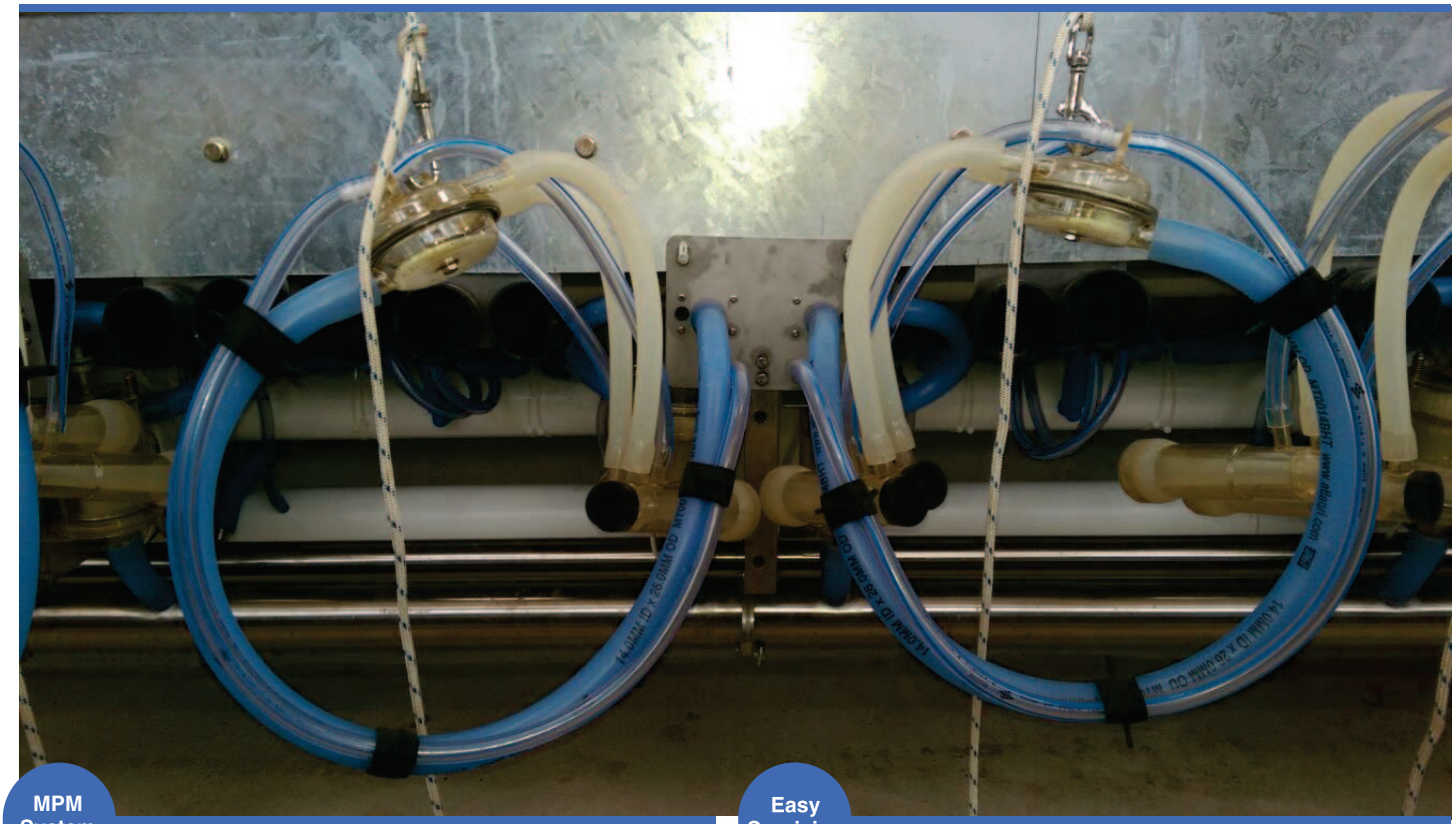

MPM System

- The MPM (Milking Point Mounting) system has been designed to make installing the low level milking system simple and easy;
- Each MPM supports 2 milking points back to back and it also provides support for the milk line, wash line, looped vacuum line and clean air line underneath the overhang;
- It includes mounting points for the ACR sensor or milk meter flask, shut off valve and pulsation tube to provide strain relief and protect the milk meter / acr sensor and pulsator from enthusiastic milkers.

Easy Servicing

- The MPM is supported by 2 x 12mm stainless steel bars enabling it to be slid out and the ACR sensor or milk meter serviced quickly and easily;
- The wash jetter cups are located either side of each MPM.
- The pulsator is mounted directly onto the vacuum line in between the two wash jetters allowing easy access and servicing.

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Milking Unit

- Claw and shells manufactured from polysulfone for high quality;
- Choice of either simultaneous or alternate pulsation;
- The circular shape and 172ml transparent bowl ensure easy handling, high visibility and rapid milk evacuation;
- 10mm ID short milk tube promotes excellent vacuum stability;
- Silicone liner for longevity.

Milk and Wash Lines

- Polished 316 hygienic stainless steel milk line, mounted low level, with welded inlet or clamp on nipples to ensure stable vacuum, minimum maintenance, high level of milk quality and reduced risk of bacteria infection;
- Slug wash system with air blast control to give a very aggressive wash to milk line;
- Polished 316 hygenic stainless steel low level wash line with welded inlet or clamp nipples to ensure minimum maintenance.

Vacuum Line

- Large bore white PVC is used for the vacuum lines as it is lightweight, durable and easy to clean;
- Large bore reduces friction loss, creating a far more stable vacuum and less demand on the vacuum pump;
- The vacuum line is looped down each side of the parlour to provide maximum stability and reserve.

Receiver Unit

- Vertical stainless steel receiving vessel and 20 litre sanitary trap;
- The vessel is mounted directly onto the pit wall;
- High capacity milk pump and compressed air purge of delivery line.

Pulsation System

- Choice of either simultaneous or alternate pulsation - if simultaneous pulsation, 1 pulsator will provide pulsation for 2 milking points;
- The pulsator is easily cleaned and can be linked to a clean airline to reduce servicing costs;
- Choice of either E-Pulse or Pulse-8 master pulsation control.

Clean Air Line

- Large bore white PVC is used for the clean air lines as it is lightweight, durable and easy to clean;
- Each side of the parlour has a separate clean air line;
- The clean air line is piped up above the parlour to reach fresh air and a large filter attached to remove dust and reduce servicing costs.

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Modular ATL technology supports a range of options to suit individual demands, needs and requirements

Cluster Remover

- Range of cluster removers to suit different requirements;
- Allows the operator to reduce milking times and improve teat health by automating the removal of the milking cluster from the goat;
- Simple bright LCD display and warning lights;
- Colour bar graph display to indicate low to high conductivity at a glance;
- Free flowing sensor including shut-off valve.

Milk Meters

- Simple and accurate, non-approved range of milk meters;
- Clear, large character LCD displays;
- Range includes simple, 3 button control through to full keypad for entering animal numbers;
- Can be stand-alone or integrated into ATL system;
- Integrated system can display animal number, current milk yield, highest conductivity, previous milk yield, and health attentions.

ACR Cylinder

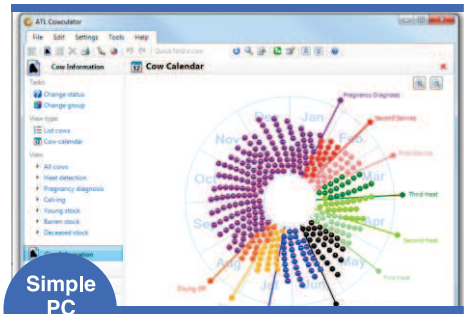
- Choice of either plastic or stainless steel ACR cylinder;
- Standard or lift to start versions available;
- Hanging hook in the top cap for easy installation;
- Plastic, lift to start, ACR cylinder includes solenoid for ACR operation.

Parlour Auto-ID

- Simple, accurate and easy to use;
- Automatically store milk yields when linked to milk meters;
- Pegasus walkthrough antennas on entry manufactured from stainless steel;
- Simply open the entry gate and the milk yield storing is done;
- Uses low cost, battery free HDX electronic ear tags.

Micro Control

- Micro control stores all animal data for the parlour;
- Store milk yields using the ATL milk meter;
- Automatically feed and store milk yields without keypad animal number entry using auto-id;
- Milking prevention on health attentions.



Simple PC Software

- Individual animal records containing daily feed rations, lifetime milk yields, lifetime conductivity values, health records and medicine use;
- Three types of ration calculation including feeding to yield and feeding based upon days in milk;
- Calendar visually shows each animal's position in the lactation cycle and highlights animals not performing.

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Modular ATL technology supports a range of options to suit individual demands, needs and requirements

Auto Wash 365

- Simple and easy to use wash controller for small to medium sized parlours;
- 4 wash programs including dedicated pre-milking key;
- Peristaltic pumps accurately dispense chemicals at up to 0.8 litres per minute - up to a maximum of 3 pumps;
- Temperature sensor for wash trough and stainless steel pressure level sensor in wash trough.

Auto Wash Pro

- Simple and easy to use wash controller for large parlours;
- 8 wash programs, including dedicated pre-milking and milk stone program keys;
- Peristaltic pumps accurately dispense chemicals at up to 2.5 litres per minute - up to a maximum of 4 pumps;
- Temperature sensors for wash trough and return line(s). Stainless steel pressure level sensor in wash trough with conductivity.

VS Milk Control

- The Variable Speed Milk Pump Control allows for a more efficient pre-cooling of the milk;
- The milk is able to cool faster due to the constant flow rate through the plate cooler. This reduces the temperature of the milk which is entering the bulk tank;
- The slow, gentle and constant flow also preserves the milk quality when compared to the start and stop process of a standard milk pump control.

VS Vacuum Control

- The Variable Speed Vacuum Pump Control allows more efficient production of vacuum as vacuum is produced based upon demand;
- Vacuum demand will change throughout milking depending upon whether units are being attached, units being removed etc;
- This reduces energy use and therefore reduces electricity costs;
- System uses digital vacuum sensor to constantly monitor the vacuum level.

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