MERLIN 2+

The smart choice
for robotic milking

FULLWOOD.COM

Fullwood

The best for cow and farmer!

Fullwood: supplier of high-quality milking solutions. What drives us? Introducing innovative solutions generation after generation to make milking faster, more reliable and more efficient. The Merlin 2+ milking robot is designed entirely with this philosophy in mind. With pioneering and innovative technologies, the Merlin 2+ milking robot from Fullwood is the new standard for automatic milking systems.

The smart choice for robotic milking

The Merlin 2+ milking robot was designed to make cows more relaxed and productive. With fully integrated software, a silent electric arm and dual entrance and exit, the Merlin 2+ makes the milking process calm and stress-free.

In short: a milking process in which cow comfort, efficiency and higher yields come first!

'Since putting the robots into operation, production has increased by 3 litres per cow per day, and that's with the same feed.'

— Marc Vermue

Read about Marc Vermue's experience. Scan the QR Code.

MERLIN 2+

For a stress-free and efficient milking process

Increase milk yields and comfort for your cows? Discover the Merlin 2+ milking robot The most advanced, automated milking robot. With its open box, natural entrance and whisper-quiet electric robot arm, the Merlin 2+ is specially designed for a stress-free and calm milking process.

The Merlin 2+ features smart milking technology that increase yields and optimal udder health. In short: with a Merlin 2+ milking installation from Fullwood, you are choosing a Smart Milking Solution.

The smart choice for robotic milking

- Dual entrance and exit
- Optimal milking speed
- Flexible placement possible
- Exceptionally quiet
- Smart FULLSENSE software
- More milk in the tank with Streampulse
- Labour saving
- Full stainless-steel construction
- Maximum udder health
- A robust, simple and reliable design

Switching to robotic milking?

If you are considering switching to robotic milking, proper preparation is very important. Where in the barn is the best place to position the milking robot? How do you optimally organise cow traffic? And which robot set-up is most efficient in your barn?

Our dealers will update you on the various Fullwood robot set-ups. They provide full guidance for the project.

Switching to robotic milking? Read our tips!

DISCOVER THE

Streampulse

Higher milk yields due to complete milking resulting an empty udder

To milk cows fully, smooth milking is important. The Stream-pulse milking technology built into the Merlin 2+ achieves this. Steampulse ensures a longer milk flow compared to the usual milking technologies. This reduces the vacuum in the milking cluster during rest phases, compared to the traditional method.

Cow monitoring

Constantly measure the status of your livestock

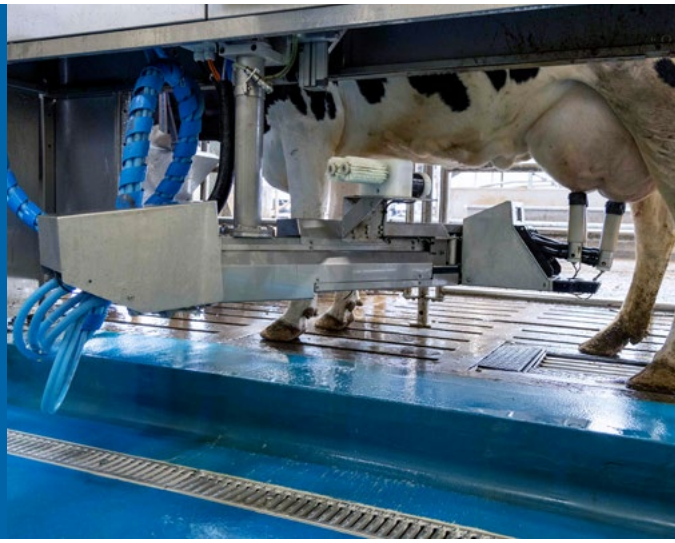
The Merlin 2+ milking robot is equipped with smart sensors that can be linked to the hoof sensors or collar sensors of your herd. This allows you to accurately measure activity, oestrus cycle stage and productivity in the FULLSENSE software program.

KEY FEATURES

Whisper-quiet robotic arm

A whisper-quiet machine

The robotic arm of the Merlin 2+ milking robot is entirely electrically operated. This results in a whisper-quiet machine. The electric arm also ensures unmatched speed and accuracy of attachment. The Merlin 2+ features unique software that can reattach to the rear teats without first detaching from the front teats.



Optimal cow traffic

Dual entrance and exit

With the Merlin 2+ milking robot from Fullwood, you can use both straight entry or exit and side entry or exit. And a combination of these is also possible. The Merlin 2+ milking robot from Fullwood is unique in this regard.

Dual entrance and exit

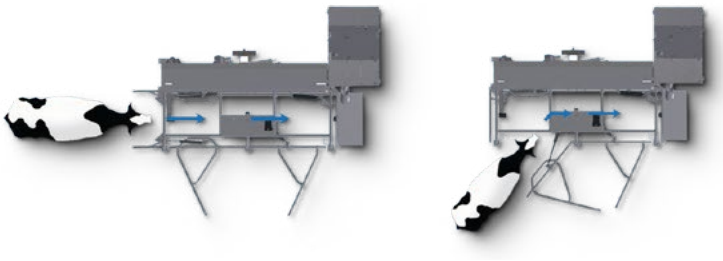
COW TRAFFIC

A natural flow

The Fullwood Merlin 2+ is designed according to the unique twin-entry/twin-exit concept. This means that there is a choice of straight-ahead entry, entry from the side or a combination for entering the milking robot. The same choice applies to the exit: straight ahead exit, exit from the side or both.

This unique concept ensures shorter queues and a quick turnaround. The flexibility of the dual entrance and exit also allows you to choose from a variety of robot configurations. Consider a Tandem set-up or a Checkout set

Twin-entry



Twin-exit

Tilting feed trough

You must be wondering how there can be a double exit when feeding also takes place in the milking robot. This is made possible by the efficient tilting feed trough. The feeder is only tilted for the cows being milked and the cow is given access to feed. Tilting the feeder away also increases the exit speed, both when leaving the box straight ahead and sideways. This results in a higher number of milkings per box per day.

MANAGEMENT

Compact separation

The Merlin 2+ milking robot consists of an open box with maximum space for the cow. Due to the unique Twin-entry/Twin-exit concept, the milking robot can easily be used as a very compact separation unit. The cows can exit the robot either straight ahead or sideways, sending them to different groups or separation areas, without the need for additional separation gates. This allows for easy segregation to the straw pen or outside, for example.

Combine robotic milking with grazing? Read Neeke van Zwol's story.

Next level in smart milking solutions

FULLSENSE

The Merlin 2+ features FULLSENSE. FULLSENSE is the software solution that turns complex data into clear information to help you make the right decisions for your dairy farm. It monitors such things as cow health and milk quality to feed efficiency and maintenance. Discover the possibilities.

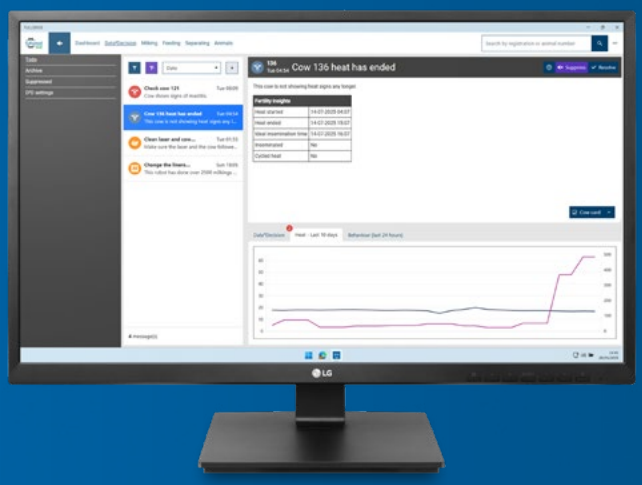
In brief

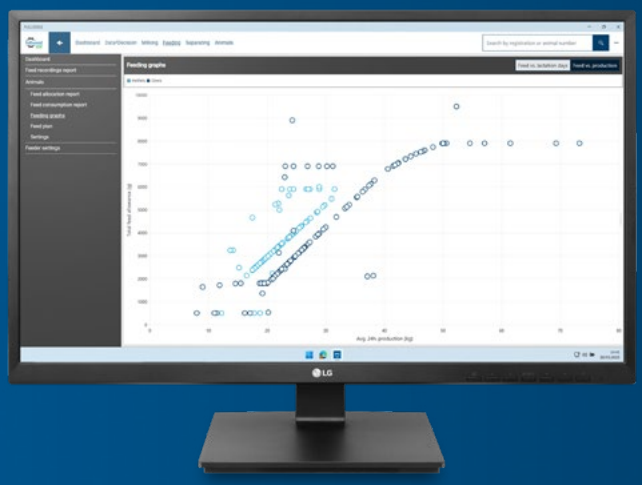
- Precise sensors that monitor cow health and provide notifications when attention is needed
- Feed and milking tailored to the cow's needs
- Smart software analyses your data and turns it into useful recommendations
- There are several options to link with external programs
- View all your data at a glance in a user-friendly dashboard

The Merlin app gives you access to real-time data on the performance of the Merlin 2+(s) anywhere and anytime. From a complete farm overview to individual cow inspections.

THE SMART MILKING ROBOT SOFTWARE

By driving improvements based on data, FULLSENSE is the robotic software that makes things easy for the customer. FULLSENSE comes as standard with our Merlin 2+ milking robot. The software interprets data, gives it meaning and makes recommendations.





Data2decision

Real-time overview of Merlin 2+ and cow performance

- Push principle
- Turn cow data into notifications
- Supports farmers in making efficient decisions
- Ensures a healthy herd and the best milk quality

Dashboard

FULLSENSE helps prioritise and offers efficiency in operations

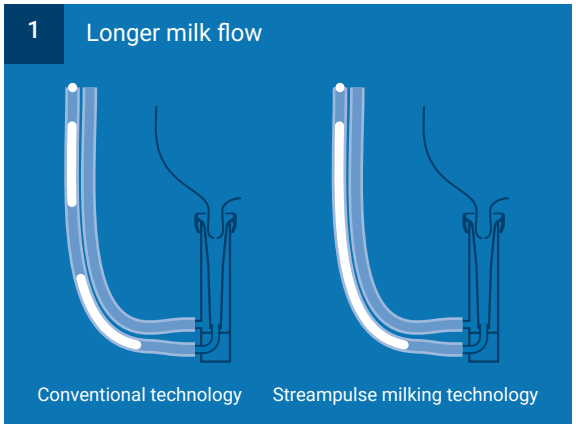
- Translates complex data into smart decisions
- Easy to use
- Each task clearly distinguished with a specific colour
- Provides a clear plan for your herd, milk quality and feed rations
- Statuses can be viewed at a glance

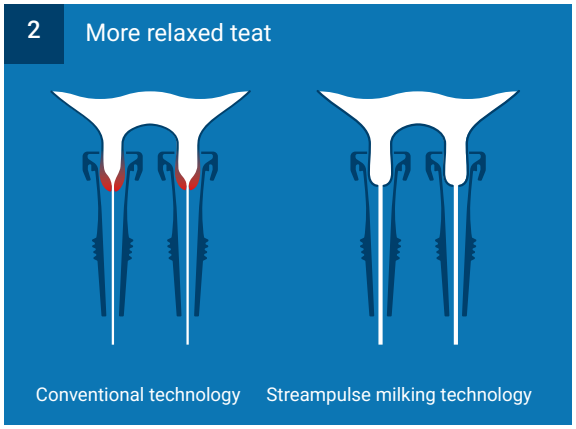
STREAM-PULSE MILKING TECHNOLOGY

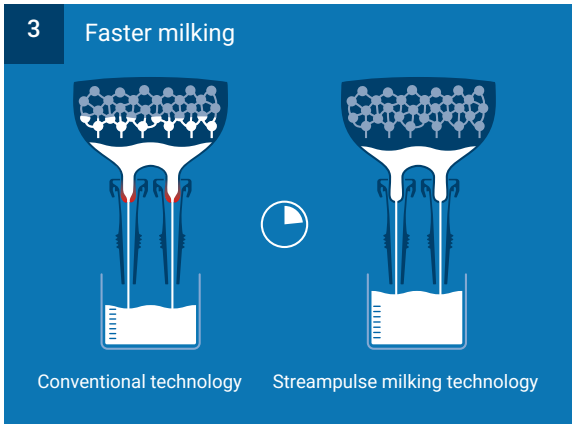
Higher milk yields due to fully emptied udder

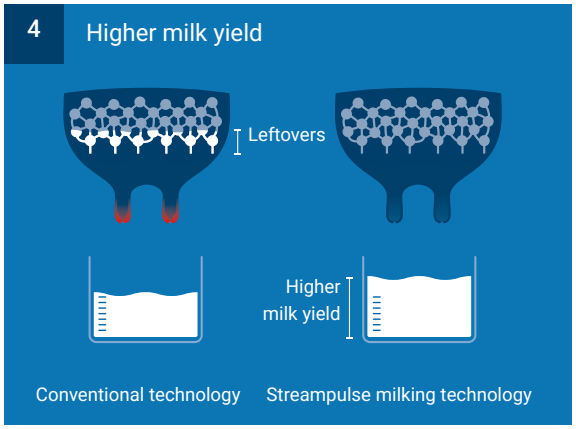
To milk cows fully, smooth milking is important. The Streampulse milking technology built into the Merlin 2+ achieves this. Steampulse ensures a longer milk flow compared to the usual milking technologies. This reduces the vacuum in the milking cluster during rest phases, compared to the traditional method. (1) The advantage of this is that the teat gets more rest, and the milk outlet stays perfectly open. (2)

This ensures that the milking speed is optimal and the muscles around the milk vesicles, which can only work for a short time, are able to squeeze all the milk to the teat. This happens before these small muscles get tired and stop working. As a result, we realise an average of 50 per cent of the milk yield in the first two minutes of milking, allowing the udder to be fully 'milked dry' and resulting in a higher milk yield. (3) The end result: healthier teats and thus healthier animals that last longer. (4)









SMART SENSORS

Real-time data is essential for your dairy farm. The Merlin 2+ milking robot is equipped with smart sensors that can be linked to efficient tools. You can then accurately manage the fertility, welfare, productivity and health of your livestock.

Collar sensor

AfiCollar is the advanced collar sensor that continuously monitors herd activity, feeding and rumination behaviour. Reliable monitoring of oestrus cycle and health.

Farm-Can4QC

FarmCan4QC is an accurate conductivity meter that takes readings of each quarter for early detection of mastitis. This ensures optimal cow health.

FullCount

FullCount's smart technology can reliably determine somatic cell counts. This will ensure high quality milk is always achieved.

Inline MilkLab

Inline MilkLab is the milking robot's laboratory. Here, the composition of the milk is measured in-line with the milk flow. Measurements are taken at each milking and without the addition of reactant. This keeps you updated with fat, protein and lactose levels along with alerts for blood detection.

Thanks to the proper analysis of this information in the soft-ware, it is possible to detect problems early, such as rumen acidosis or ketosis. As a livestock farmer, you are then able to act quickly and avoid the loss of precious milk.

Leg sensor

AfiTag III is a high-performance leg sensor. The leg sensor accurately monitors the health and oestrus cycle stage of the cattle in the barn. You are then always aware of when insemination should take place.

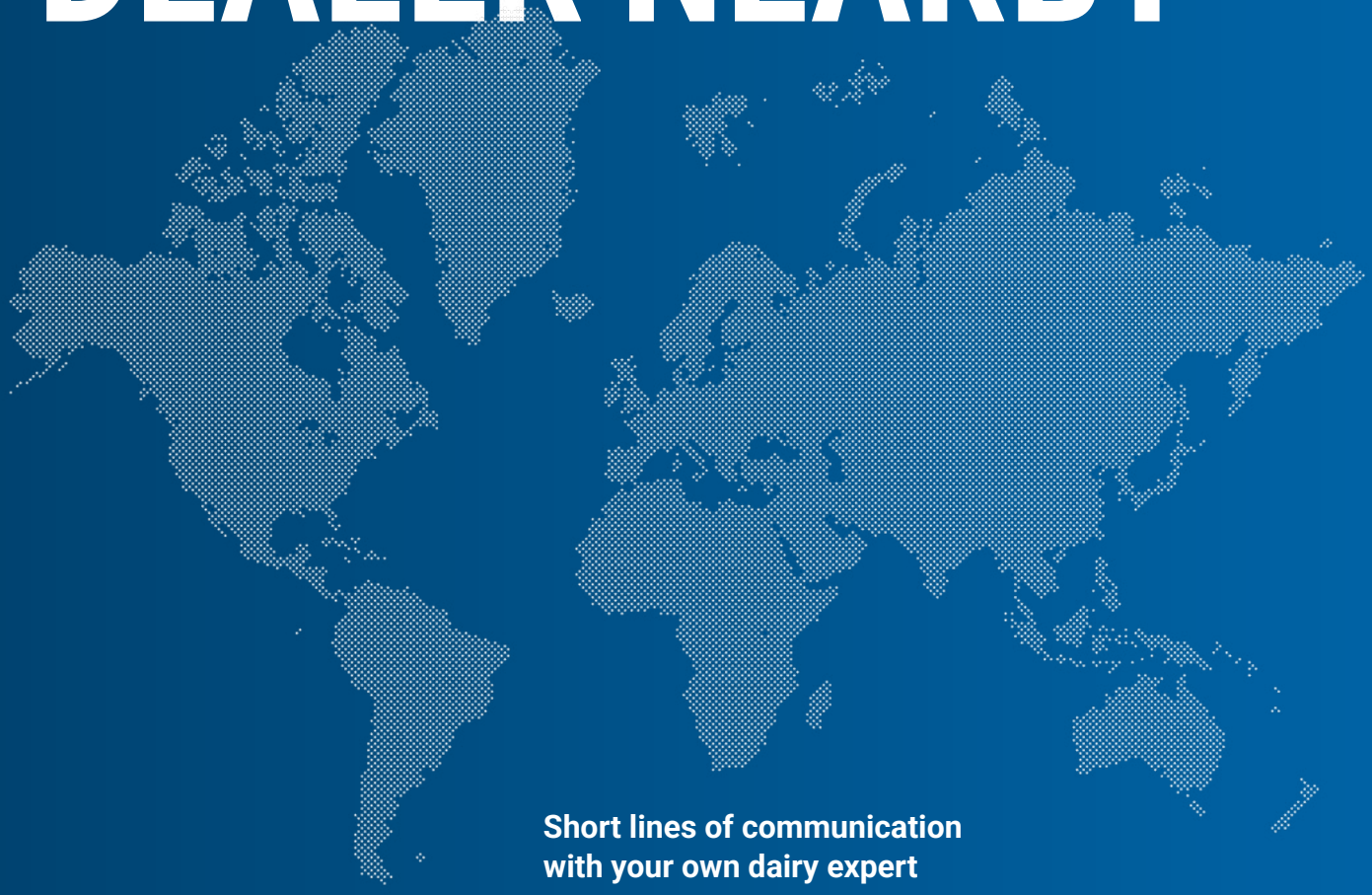
The solution for Batch Milking

MERLIN MERIDIAN

With the Merlin Meridian from Fullwood, cows can be automatically milked in groups. The solution is based on a unique combination of the consistency and routine of conventional milking, but with the advantages of robotic milking.

A Merlin Meridian set-up consists of a semi-circular layout, with the inner circle acting as a waiting area. This was chosen so that the cow can proceed directly to the robots, without having to turn left or right at the entrance. A natural process for the cow in terms of cow traffic. With the Merlin Meridian system, the cows are automatically milked in batches by the milking robots, with no need for human supervision. The farmer can then bring in the next group by keeping the cows safely in a central waiting area. The moving drive gate in the inner circle ensures that cows never spend more than an hour in the waiting area. The Merlin Meridian helps farms achieve more with batch milking by combining the best aspects of conventional and robotic solutions in a new approach that leads to better results and creates a relaxed milking experience for both cows and farmers.

ALWAYS A DEALER NEARBY



Short lines of communication with your own dairy expert

Want to learn more about our innovative milking systems?

Get in touch with a local dealer: www.fullwood.com/dealers

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