DeLaval

DeLaval VMS™

Much more than a milking robot

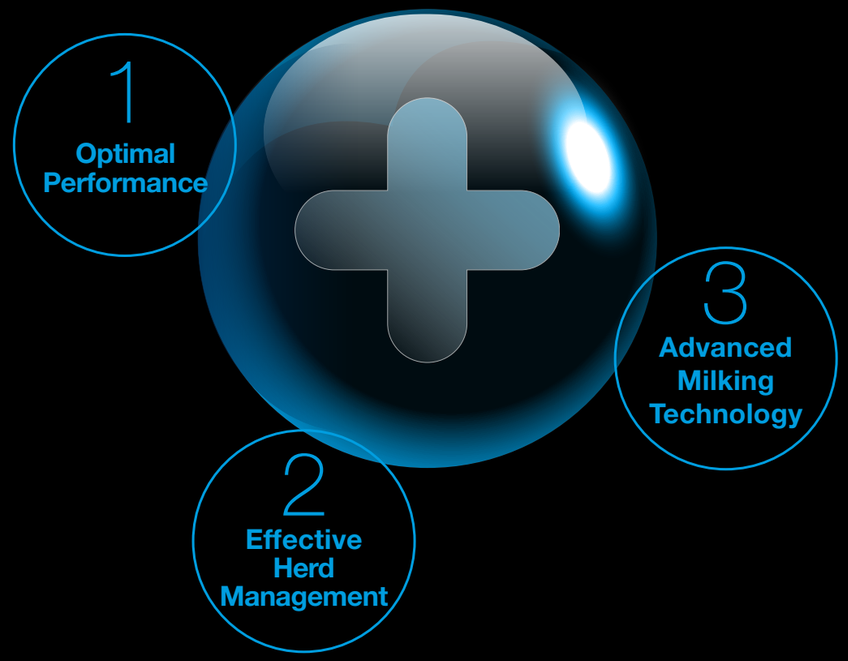
VMS+

At DeLaval we can make any farm more productive and more profitable.

How do we do this?

By bringing together the three pillars of productivity — optimal performance, effective herd management and advanced milking technology.

DeLaval Plus+



VMS Plus+

DeLaval VMS stations are renowned for harnessing maximum milk yield, operating efficiency and robust around the clock performance. With the introduction of VMS Plus+ we are taking automatic dairy farming to the next level.

Put the Plus+ in your VMS barn.

1

Optimal performance VMS Plus+

Put the PLUS+ in your VMS barn

Maximise speed, efficiency and control

Automatic milking with a VMS combines fast milking, accurate control and uncompromising efficiency to harness maximum milk yield from every cow. It is not uncommon for VMS farmers to harvest 3000 kg of milk per robot per day. Maximising capacity also keeps rush hours to a minimum and allows all your cows to milk in a calm, stress-free environment.

Long lasting relationship

DeLaval has an extensive service organization to back you up if you need support, 24/7. As a full system supplier our experts can assist you with virtually everything in the barn, from milking robots to robot manure scrapers to automatic feeders. Whatever you need we can help you with it.

The optimal cow traffic system for your needs

VMS is an extremely flexible system. Today, many VMS farms utilise DeLaval free cow traffic, however if you want to add cows to the system or further reduce workload, or employ a different feeding method, Feed First™ and Milk First™ are effective options. Whichever you choose, we can help you achieve the best results with your way of milk production.

Sustainable to save time and money

With VMS your energy consumption is less then 2 kWh/100 kg produced milk. The VMS also includes a smart water management system, while energy recovered from the cooling process is used to heat up the water used during cleaning.

Gain more from your feed

If you increase the amount of roughage feedings per day, feed intake improves. Your cows then produce more and live longer. To achieve this feed needs to be distributed regularly. The Optimat™ feeding system enables you to achieve this, while reducing labour requirements. It automatically delivers the ideal amount of feed to your cows throughout the day.

Know your operating costs for the coming years with InService™

VMS All-inclusive is a complete operational service programme. It includes DeLaval InService preventive maintenance and regular delivery of essential operational goods, such as liners and consumables. With InService VMS All-inclusive, you know what your milking operational costs will be for the coming years.

100 years of operational expertise for improved production

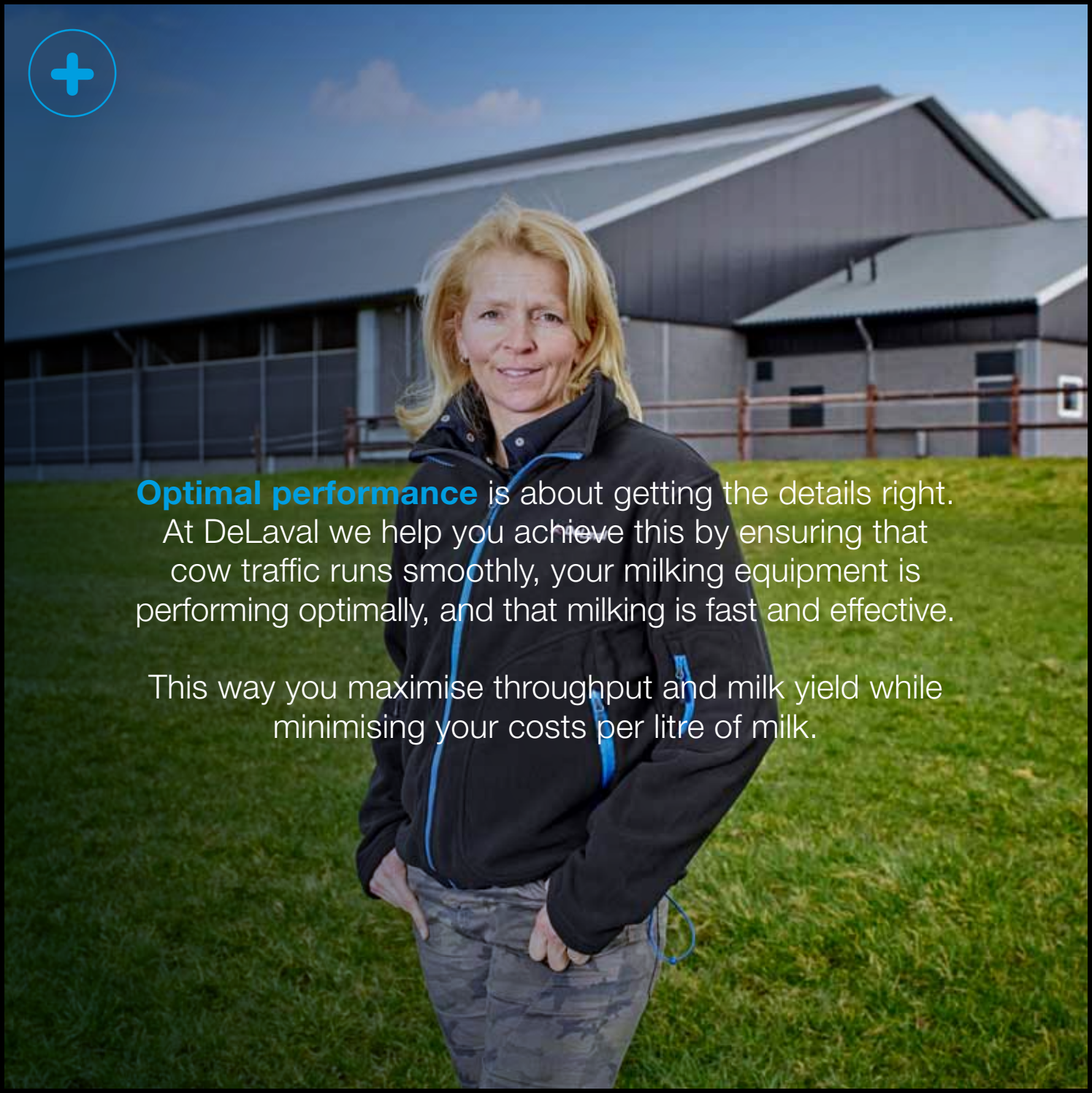
DeLaval dairy farming consultants can provide all the support you need for improved production. We help farmers around the world improve productivity and lifestyle, and extend the longevity of their cows. Whether you are building a new barn or wish to improve existing operations, we can help with automation, feeding, manure handling, ventilation, reproduction, and more.

Clean and hygienic, around the clock

Keeping the barn clean and hygienic is essential for good udder health. However, there are hours throughout the day and night when there is nobody in the barn to do it manually. With a silent and cow friendly robotic scraper, every alley is automatically cleaned around the clock. The floor, camera and teat cups are also automatically flushed with water 24/7.

Built to stand the test of time

VMS stations are built to last. The first DeLaval VMS stations have been running on farms for more than 15 years. In this time they have milked close to 10 million litres of milk and still collect high quality milk every day.



Optimal performance is about getting the details right. At DeLaval we help you achieve this by ensuring that cow traffic runs smoothly, your milking equipment is performing optimally, and that milking is fast and effective.

This way you maximise throughput and milk yield while minimising your costs per litre of milk.

2

Effective herd management VMS Plus+

Put the PLUS+ in your VMS barn

Farm management, as it should be

DeLaval DelPro™ Farm Manager connects the different areas of your milking operations. It records and collates information that can be used to create reports on health, productivity, reproduction, performance and milking data. With this information your operations can be fine-tuned to deliver a more profitable production. Additionally, with data monitored on an individual and quarter level, management by exception can be achieved effectively.

Full control no matter where you are

With VMS Remote farm Connection RFC you can use a PC, tablet or smart phone to view and manage your cows, VMS stations, or feeding and cooling systems. And by connecting IP cameras you can get an overview of the barn before you make any decisions. RFC also enables DeLaval service technicians, veterinarians and advisors to connect to your farm and advice you remotely.

Real-time health and reproduction indicator

The behaviour of a cow is an important indicator of her welfare. With a dynamic activity measuring system individual cow's movements are tracked constantly and analysed hourly. If a cow enters a heat period you will be notified and prompted to inseminate. The system also monitors cows for low activity, which may signal a health issue.

Don't just milk, examine your cows too

The Mastitis Detection index MDi™ combines data from multiple sensors to evaluate udder health during every milking. It identifies any cows that need attention based on quarterly conductivity, blood and milking interval measurements, and milk per quarter flow data. It even takes into account conductivity peaks during milking. MDi™ comes as standard in a VMS.

Keep cows in the optimal condition throughout lactation

Over and underfeeding is no longer an issue with Body Condition Scoring BCS. It automatically measures and logs the conditions of your cows on a daily basis. With accurate body condition scores you can adjust feeding to ensure cows have the ideal condition throughout their entire lactation.

Accurate somatic cell count on every milking

The Online Cell Counter OCC accurately counts the number of somatic cells from a milk sample. You can follow any SCC trends over the long-term, view seven day averages, and act immediately if a cow has an extremely high cell count. OCC can also analyse the SCC levels in the bulk milk tank.

Be certain, with the ultimate heat and health control system

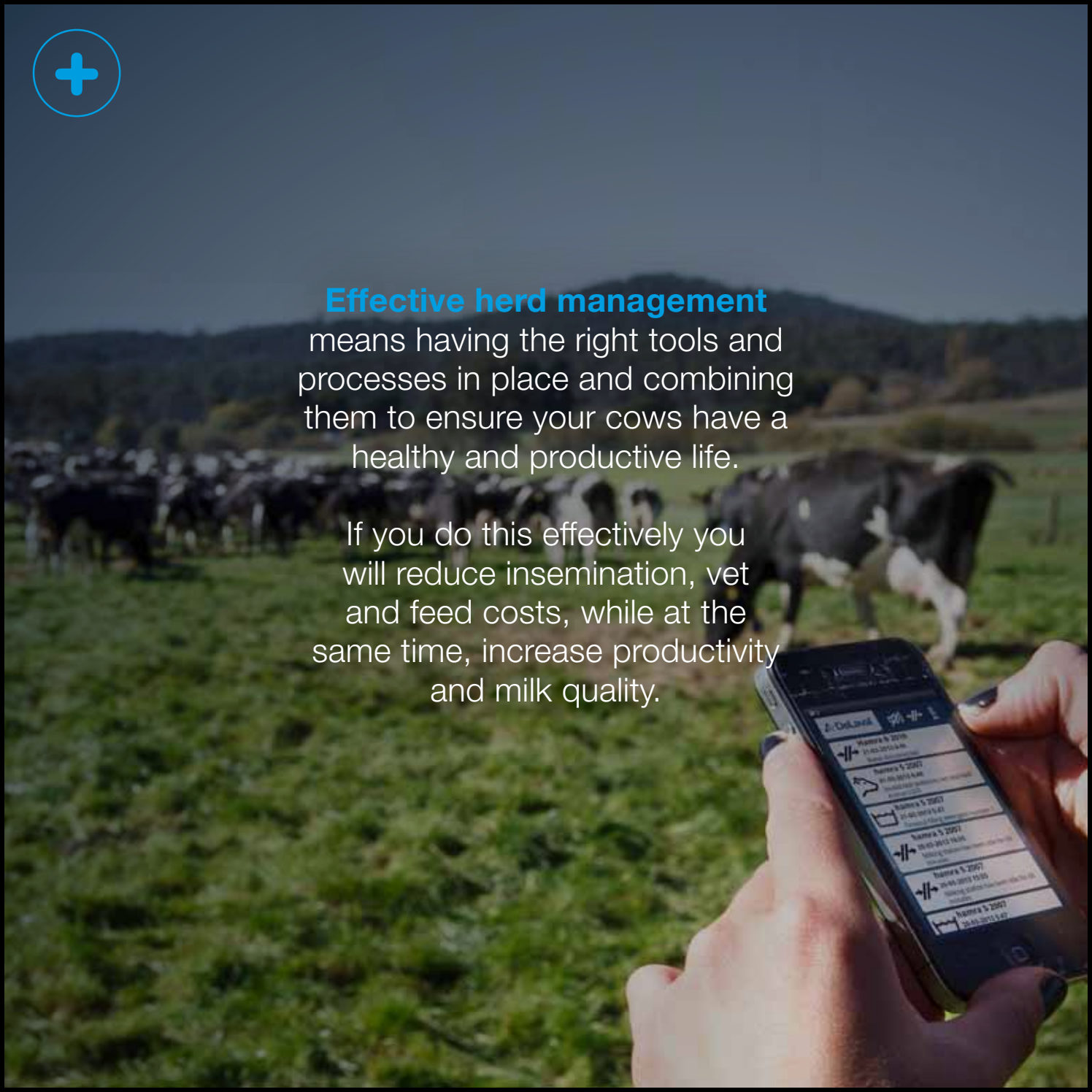
Herd Navigator™ is the ultimate system for farmers who want to stay one step ahead of their herd. Herd Navigator tells you with 99% certainty if a cow is in heat or is suffering from ketosis or mastitis. It does this up to three days before it can be seen with the human eye and advises you on the best course of action to take. With Herd Navigator, reproductive cycles can be shortened and vet costs greatly reduced.

Automatic feed calculation assures correct feeding through lactation

The automatic feeding system constantly calculates the correct amount of feed for individual cows based on their milk production, feed table and days in lactation. Feed dosing speed is adjustable per cow so that small amounts of concentrate can be provided during milking. This helps you to maintain low feed costs.

Optimise your time and react faster

A key function in DelPro™ Farm Manager is the Vet module. We know that one sick cow can demand the same number of hours as 40 healthy cows. DelPro™ prevents cows from getting sick by collecting and processing more data, in order to predict deviations accurately. This module gives the farmer the possibility to act faster.



Effective herd management means having the right tools and processes in place and combining them to ensure your cows have a healthy and productive life.

If you do this effectively you will reduce insemination, vet and feed costs, while at the same time, increase productivity and milk quality.

3

Advanced milking technology VMS Plus+

Put the PLUS+ in your VMS barn

The ideal way of preparing cows for milking

The VMS prepares and stimulates teats by ensuring they reach the highest oxytocin level. This results in proper milk let down and less rest milk. VMS also has the shortest milking times per kg of milk, which is commonly known to improve udder health and increases milking capacity.

The perfect fit for optimal milk extraction

Fast and gentle milk extraction is essential for good udder health and profitable dairy farming. DeLaval VMS liners fit all teats and provide stable, efficient milking. VMS is also now available with the newly developed DeLaval Clover™ liners. The unique barrel shape design of the liner helps to achieve even better teat end health and improved performance.

Remove the guesswork with real quarter measuring

VMS constantly measures milk flows and collects quarter level data, to ensure take off occurs at the ideal moment for each teat cup. Quarter milk flows and milking time data is also used to identify any deviations at teat level. This can be used to fine tune individual settings per cow and milk each quarter optimally.

Revolutionary way of cooling the milk

When milk is pumped to a cooling tank around the clock it needs special handling to cool it quickly but gently. aFCC (adaptive flow controlled cooling) automatically sets the cooling capacity to match the milk flow. This avoids risks of freezing the milk or cooling it too slowly. aFCC uses 50% less energy, compared to traditional techniques. All cooling data is stored in DelPro™ Farm Manager and any alarms can be sent to your smart phone.

Smart milking for individual cows best

VMS adapts to most cows in any barn. Unique features, such as Smart attach, Smart take off and Smart pulsation provide tailored milking for each cow. Individually adjustable stimulation helps to ensure full milk let down and high milk flow, while teat cup take off is controlled for each quarter with four accurate milk meters.

Avoid contamination - keep your cows healthy

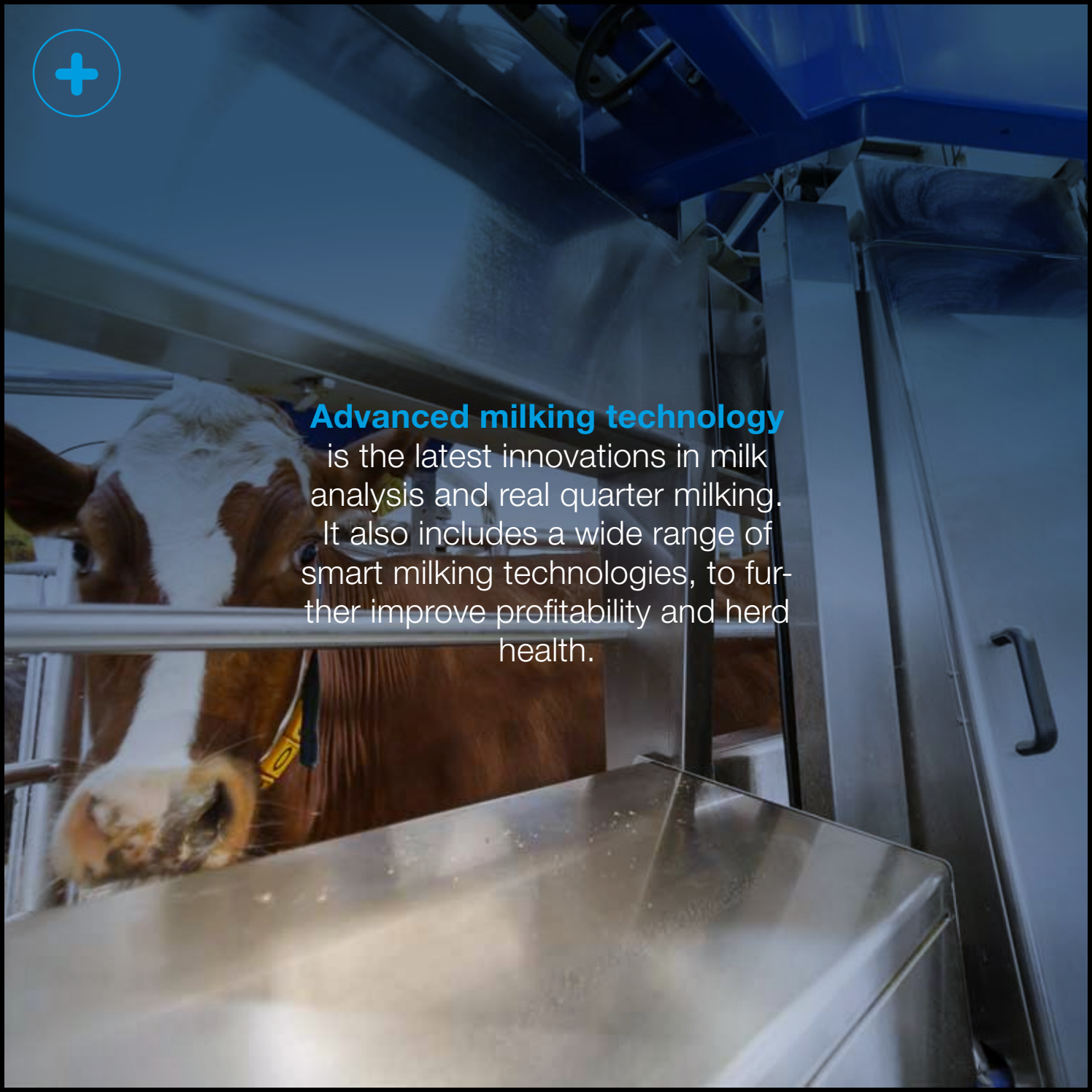
If a cow is falling ill the last thing you want is for illness to spread amongst the herd. Disinfecting liners and the clusters with the steam back flush SBF after every milking helps the fight against mastitis. Additionally, treating and cleaning cows' hooves regularly, as they leave the station, can minimise the risk of hoof infections. Doing both will increase cow productivity and longevity.

Quick to learn, easy to manage

Daily farm management operations should be easy enough for you to leave the barn in the hands of family members or a caretaker. The colourful, user-friendly VMS touchscreen has clear symbols and large buttons and is built for the tough barn environment. All the most important information from Delpro™ Farm Manager is easily accessible and VMS and cow performance can be viewed in easy to follow colour coded windows.

Milk all your cows and keep culling rates low

VMS can milk both high and low udders and up to 45 degree angled teats. It also has the most compact arm in the market and VMS specific liners, which gives it the flexibility to milk almost any cow. In addition, you can fine-tune the attachment for each cow on teat level. This helps to speed up attachment time, improve udder health and reduce the culling rate.



Advanced milking technology is the latest innovations in milk analysis and real quarter milking. It also includes a wide range of smart milking technologies, to further improve profitability and herd health.

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