



SMART**D-TECT**

INTELLIGENT **PULSATOR**
& UDDER HEALTH DETECTION



**REDUCE LABOUR.
INCREASE
PRODUCTIVITY**



Automate your pre-milking stimulation and udder health detection to elevate the value of your dairy operation through precision dairy farming

REDUCE YOUR LABOUR

AND INCREASE YOUR PRODUCTIVITY, WITH
SMARTD-TECT'S AUTOMATION TECHNOLOGY

SmartD-TECT automates your stimulation and prep routine by delivering three valuable milking functions, without adding any additional tasks for the operator:

- **ELIMINATES FORE-STRIPPING**
- **PRE-MILKING STIMULATION**
- **UDDER HEALTH DETECTION**

With SmartD-TECT, the cluster can be attached immediately after the teat wiping process. This ensures the same milking routine every time - without the operator needing to estimate the best attachment time, or missing the best time if they become distracted.

By removing processes and the variabilities of operators - SmartD-TECT provides consistency in performance, and productivity advantages that no other conventional milking system offers.



**INDIVIDUAL
QUARTER TESTING**



**VISUAL UDDER
HEALTH ALERTS**



**ALERTS 4 DAYS
BEFORE VISUAL
SIGNS EVIDENT**



Eliminate forestripping. Reduce labour.

Increase productivity.

By automating your milking stimulation and prep routine, SmartD-TECT eliminates fore-stripping to reduce the number of employees required in your parlour, while increasing your productivity. With SmartD-TECT, the pre-milking phase replicates udder stimulation. And by having the same pre-milking routine every time, cows let their milk down sooner, more consistently, and at a higher average flow rate - reducing the overall milking time for each animal.



Udder Health Detection.

In a conventional milking system, SmartD-TECT's unique individual quarter testing delivers the most accurate alert for abnormal milk. The alert can be set for a range between a very small conductivity change in animals, where no action may be required - right through to a very high conductivity alert for animals in need of urgent attention. The choice is yours and the sensitivity settings can be easily adjusted to suit your individual preference via SmartCONTROL. When an udder health issue is detected - abnormal milk will show as a red flashing alarm during milking - at the milking point, and in the herd management system if you're using one. By identifying the onset of mastitis up to four days before visual signs are evident, SmartD-TECT provides you with the ability to make decisions about your animals before they cost you productivity - and enable you to make data-driven decisions on your herds health.

HOW DOES SMARTD-TECT WORK?

During the pre-milking phase, the pulsator milks each quarter separately and measures the conductivity of each. Individual quarter conductivity allows SmartD-TECT to eliminate issues with dilution between quarters to deliver a highly accurate alert for a potential udder problem - unlike other systems that measure the whole udder conductivity.

If any quarters are abnormal, you will be alerted up to four days before visual signs are evident. This provides automated detection of problem animals and potential udder health issues, without being completely reliant on employees to detect them - reducing treatment time and cost. The SmartD-TECT process promotes a natural let-down response, and performs a consistent routine every milking without operator intervention.

SmartD-TECT Components

The technologically advanced SmartD-TECT Pulsator, SmartD-TECT Sensor and SmartCONTROL components all work together smoothly and continuously to automate your pre-milking stimulation and udder health detection.



Pulsator

The SmartD-TECT Pulsator controls individual pulsation signals to the cluster allowing each quarter to be milked separately at the start of milking. The onboard software identifies abnormalities between different quarters.



Sensor

The SmartD-TECT sensor is attached to the milk line at every cluster to measure the conductivity of the milk from each cow. The results are sent to the pulsator for interpretation.



Controller

SmartCONTROL is a touch-screen interface that controls SmartD-TECT's sensitivity settings, and other Waikato Milking Systems milking components.



Seamless Integration

SmartD-TECT integrates seamlessly into any conventional rotary or in-line milking system.

Whether it's a retro-fit, or a new installation - our authorised Waikato Milking Systems dealers will provide quick and easy installation of the SmartD-TECT system, and remain available for reliable ongoing support and servicing should you require it.



Peace of mind that things are getting done right, with a consistent milking routine

Brad Clinton knew he had to make a change when milking his 500 cows on his old double-up milking parlour was taking five to six hours.

So in 2018, the family farm launched a major expansion plan, and at the top of their list was a new milking system. Brad had always wanted to change to a rotary system if they were going to build a new parlour, and the benefits of the Waikato Milking Systems Centrus Composite Rotary platform piqued his interest.

In 2019, the lightweight Centrus composite platform and a number of milking automation technologies and dairy management features were installed to improve the farm's efficiency.

The new parlour included SmartECRs (Electronic Cup Removers), SmartD-TECT for pulsation and milk conductivity measurements, Yield Indicators to measure

milk volume, and HD Stainless Steel Bails suitable for larger stock. SmartSPRAY, for pre-milking and post-milking was also installed. The data generated from these milking automation options are collected by Waikato's Dairy Management System - and the information can be viewed on a touch-screen in the parlour.

The decision to install SmartD-TECT automation technology was an important factor in reducing their milking time, and increasing their productivity.

By replicating udder stimulation in the pre-milking phase, SmartD-TECT has provided Clinton Farms with a consistent pre-milking routine, and reduced the average milking time for each of their animals. And with the same milking routine every time, it has also ensured that they are not completely reliant on the milkers to keep an eye on everything as the cows are being milked.



“

It gives you peace of mind that things are getting done the right way and you know you're getting a consistent milking routine.

”

Brad Clinton
Farm Owner

SmartD-TECT also performs individual quarter testing to provide the milkers with alerts for abnormal milk - identifying the onset of mastitis up to four days before visual signs are evident. This udder health detection function enables the operator to make data-driven decisions on how to best manage the herd before it affects their productivity.

“Basically it lets you know what's going on with your herd. You're not totally relying on your milkers to notice everything as the cows are being milked.”

The Clinton Farms' Waikato Milking Systems platform and milking automation technologies have become a showpiece in Wisconsin - and when they held an open day in September 2019 to showcase the system they attracted over 800 people from around the state.

Farm name:
Clinton Farms

Owner:
Brad Clinton

System type:
50-point Centrus Composite
Rotary Milking System

Herd size:
500

Location:
Wisconsin, USA



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Growing the value of precision dairy farming

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