

WAIKATO®

MILKING SYSTEMS

CENTRUS

102

COMPOSITE ROTARY MILKING SYSTEM

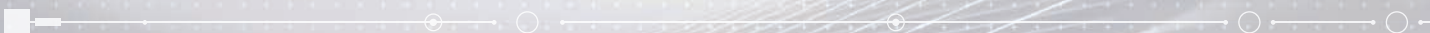


AROUND THE CLOCK MILKING PERFORMANCE, THAT NEVER STOPS



IMPROVE YOUR MILKING PERFORMANCE AND
PRODUCTIVITY 24/7 and grow the value of your dairy

WAIKATOMILKING.COM



THE NEXT GENERATION OF ROTARY MILKING SYSTEMS, WITH UNSTOPPABLE PERFORMANCE

Your farm never stops, so the Centrus Composite Rotary Milking System rotary doesn't either.

Unlike other rotaries, Centrus is a groundbreaking system that has been designed to never stop turning, even for cleaning - allowing commercial farmers to run more productive, cost-efficient and profitable operations 24/7.

Constructed to be structurally stronger, lighter and longer-lasting, Centrus will withstand the harshest of milking environments for generations to come.

Trusted by farmers around the world, the award-winning Centrus Composite Rotary Milking System is the result of over three decades of knowledge and experience, a passion for innovation and excellence - and partnerships with farmers.

WHY IT'S IMPORTANT...



Designed to never stop turning for 24/7 performance and productivity



Lighter and stronger construction, with a lower cost of ownership



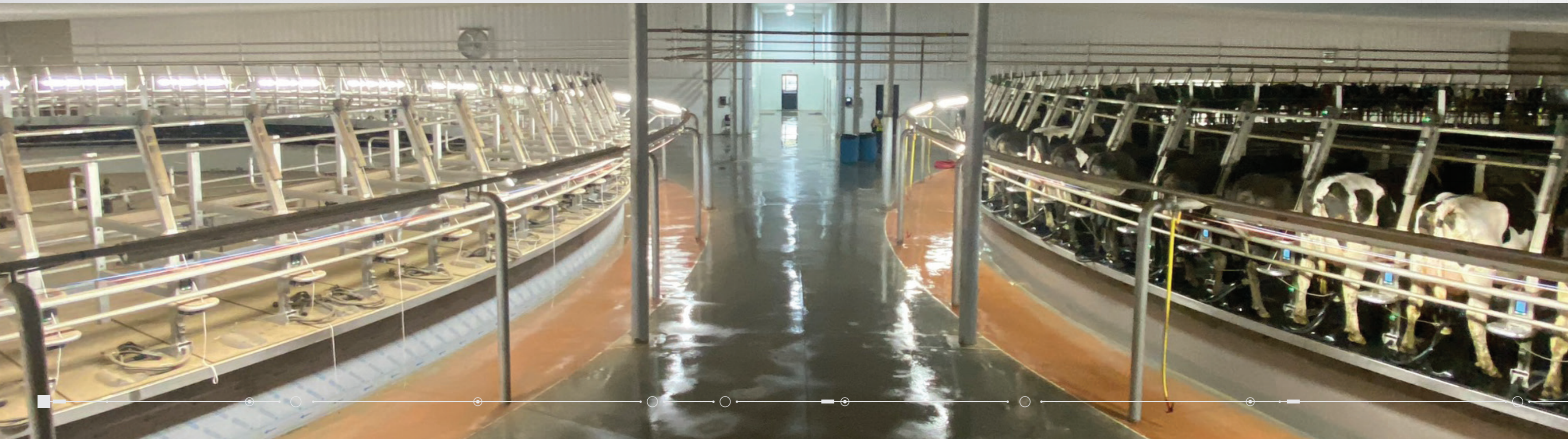
High-performance features makes milking easier and more efficient



Upgradeable for future automation technologies to increase your performance and productivity



Creates a more enjoyable and efficient working environment



BETTER FOR FARMERS

The Centrus Composite Rotary Milking System is **user-friendly and includes the latest smart technologies built into the system to reduce labour** so you can milk more efficiently and profitably. Centrus is ergonomically designed to improve performance and provide a quiet, comfortable and enjoyable milking environment.

WHY IT'S IMPORTANT...



User-friendly system - delivering maximum milking efficiency and reliability



The fully integrated system works seamlessly together to reduce labour and improve performance



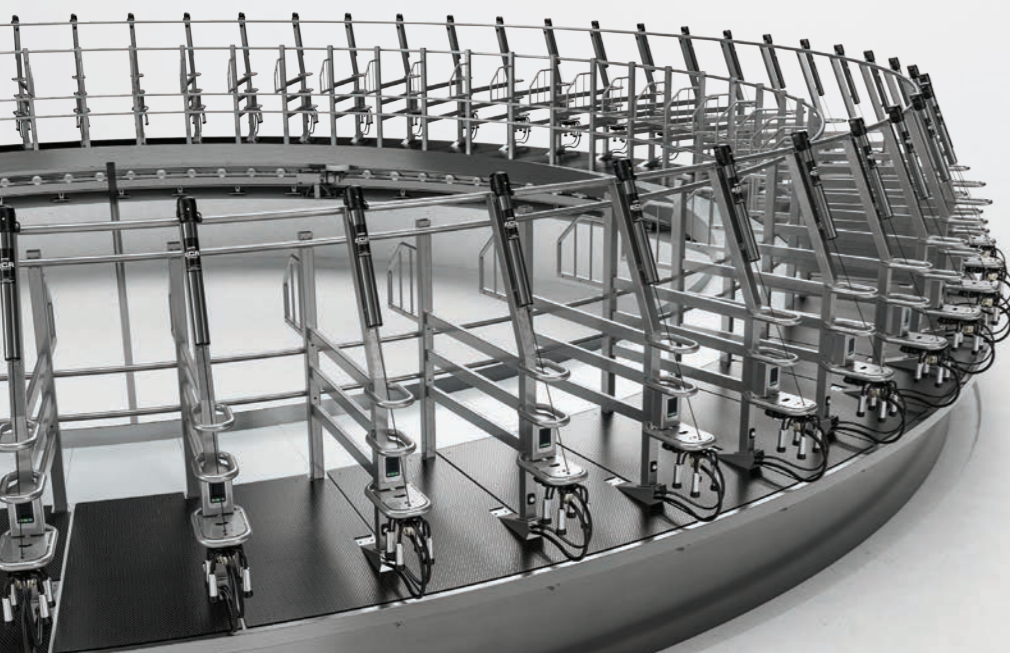
SmartD-TECT automates pre-milking stimulation and udder health detection to eliminate labour and operator variabilities



Designed for ease of cleaning without stopping the rotary, for maximum hygiene and efficiency



Lighter construction reduces the cost of ownership, and running and service costs



BETTER FOR COWS

The Centrus Composite Rotary Milking System has been designed to provide an **anatomically correct milking environment for cows**, and a stress-free milking environment for all herd sizes. The built-in SmartD-TECT automation technology provides a consistent pre-milking routine incorporating udder health detection to allow you to make decisions about your animals before they cost you productivity.

WHY IT'S IMPORTANT...



Fast stopping-power to prevent cows getting caught and injured



Specially formulated soft and comfortable replaceable rubber mats in every bail to enhance cow comfort and protect their hooves



A quieter milking environment to reduce animal stress



SmartD-TECT allows you to make data-driven decisions on your herds health

SmartD-TECT

Automates your stimulation and prep routine that delivering three valuable milking functions, without adding any additional tasks for the operator.



CONSTRUCTED FOR UNSTOPPABLE PERFORMANCE AND LONGEVITY

Heralded as the most significant evolution in rotary platform design in 50 years, our high-performance composite technology makes it structurally superior than concrete, chemically resistant, and more capable in any milking application - as well as being extremely quiet, lightweight, durable and easy to clean.

With correct care and maintenance, the platforms will remain like new for their entire life - with no pitting or cracking with exposure to effluent and harsh chemicals.

The composite deck sections are formed using a multilayered lamination process similar to that used in the construction of high-performance aircraft and boats, resulting in a deck that is 75% lighter, and significantly more durable than traditional concrete or steel alternatives.

The dramatic reduction in the weight of the platform means your roller life will be extended, therefore reducing the cost of ownership. The lightweight platform also features impressive stopping power with the ability to be stopped within seconds should an issue arise, or in the event of an emergency - without causing injury to cows.



The platform is designed and built with extreme precision for performance, reliability and durability



The multi-layered laminated composite deck sections are structurally superior and extremely capable in any milking application and reduce wear and tear



The deck is up to 75% lighter and more durable than traditional concrete or steel alternatives



With its single bail modular design, Centrus can be tailored specifically to your requirements and can be built in almost any size you want



Upgradeable for future automation technologies to increase your performance and productivity

DESIGNED TO KEEP YOU MILKING



Platform Structural & Chemical Resistance 5 Year Deck Guarantee

The Centrus system's multi-layer fiberglass composite construction makes it structurally superior to concrete platforms, and provides superior resistance to harmful chemicals, acids and manure - and comes with a 5 Year Platform Structural & Chemical Resistance Guarantee.



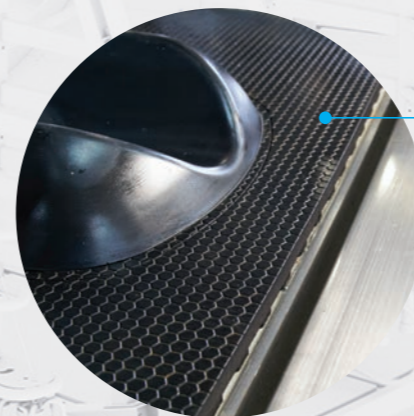
Less weight, less maintenance on running gear

The Centrus system's lightweight composite panel construction provides a 20 ton weight reduction on a typical 50 point concrete deck rotary - reducing the load on the roller assemblies and drives by approximately 33% to improve the working load limits and reducing maintenance.



A quieter, safer working environment

The Centrus system's platform construction incorporates resin-bonded fiberglass layers and encapsulated foam to provide a quieter working environment for the operators and cows. The system also incorporates specially formulated rubber mats to ensure cow comfort and slip-resistant footing, and providing a safer working environment.

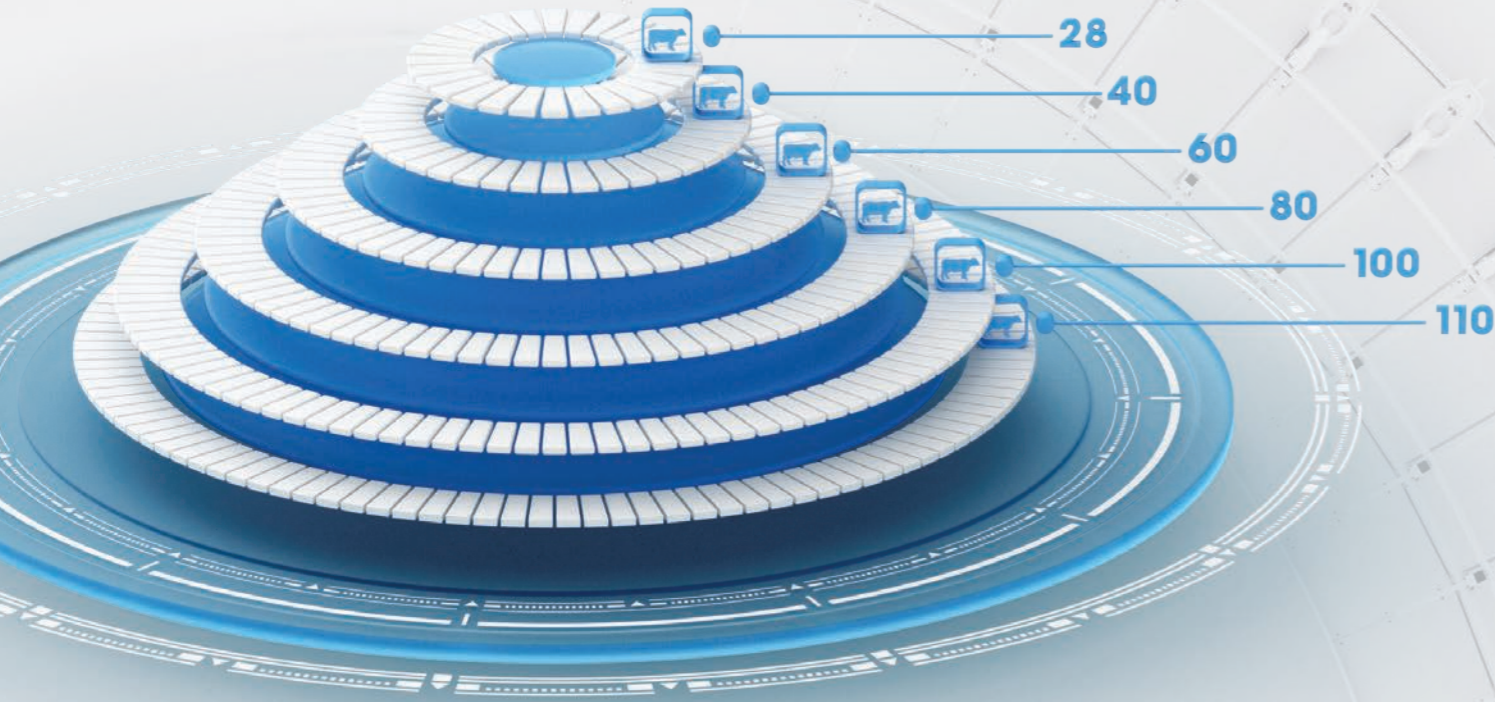


Built with extreme precision, for superior strength

The Centrus system is precision engineered to exacting standards and specifications in our state-of-the-art factory environment to ensure superior strength and a superior finish when compared with traditional concrete platforms - while also eliminating the variabilities of concrete construction with inconsistencies of locally supplied aggregate mix.







A RANGE OF SIZES AND CONFIGURATIONS FOR ALL HERD SIZES



Available from 28 point to 110 point in multiples of 2 points

CENTRUS MODELS

	 2500	 5500	 9500	 9500i
Max Operating Duty per Day	12 hrs / day	12 hrs / day	24 hrs / day	24 hrs / day
Standard Bail Width (875mm c/c outer rim)	▪	▪		
Extra Comfort Bail Width (980mm c/c outer rim)			▪	▪
Standard Galvanised Stallwork	▪			
Heavy Duty Galvanised Stallwork		▪	▪	
Stainless Steel Heavy Duty Stallwork				▪
Nylon Rollers, Double Beam +/- 650mm Spacing	▪	▪		
Nylon Rollers, Double Beam +/- 400mm Spacing			▪	▪
Stainless Outer Dry Edge	▪	▪	▪	▪
Lightweight, Heavy Duty Composite Deck	▪	▪	▪	▪
Rubber Mats	▪	▪	▪	▪
Drive Units & User Controls	▪	▪	▪	▪
ECR Plus		▪	▪	▪
Bail Display		▪	▪	▪
SmartD-TECT			▪	▪
Electronic Milk Meter			▪	▪

WHAT'S INCLUDED:

- Waikato 320 Cluster Sets
- Dropper Set
- Pulsation
- Filtered Air
- Rolled Lines
- Receiver and Sanitary Trap
- Milk Pump
- Milk Pump VSD (SmartDRIVE)
- Milk Recovery
- Auto Drains
- Rotek Gland
- Milk Filters
- Milk Delivery Lines
- Wash Water Return System
- Jetter Wash Lines
- Air Injector
- G2 Cluster Washers
- Vacuum Pump
- Vacuum Pump VSD (SmartDRIVE)
- Main Air Lines

Future-proof your dairy with automation

The Centrus Composite Rotary Milking System allows you to add from our range of Waikato Milking Systems' dairy automation technologies to increase your productivity and performance even further. The automation technologies integrate seamlessly with Centrus to provide you with reliability and efficiency, and the ability to future-proof your dairy.

AUTOMATION YOU CAN ADD:

[FIND OUT MORE](#)

- Ezy Pull down
- Auto Start operation
- Take Off Delay
- Retraction speed control
- Cluster Drop compatible*
- Short milking alert
- Waterproof bail switch
- Waterproof bail switch with LED indication
- Diagnostic reporting
- Independent Bail Gate control
- Post Milking Teat Spray control
- Pre Milking Teat Spray Control
- Remote IO for advanced milking control
- Yield Sensor compatible
- Milk Meter compatible
- Pre-milking Prep and Conductivity compatible
- Fixed Point Take Off
- Dairy Herd Management Compatible

* Requires Rotary Positioning System or Identification

PROJECT PROFILE: CLINTON FARMS | WISCONSIN | USA

Having the ability to expand the dairy operation in the future is key.

Brad Clinton knew he had to make a change when milking his 500 cows on his old parallel milking parlour was taking five to six hours. "It was pretty labour intensive and not really what this type of parlor was meant for" says Brad.

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 Milking System piqued his interest. Brad says "Being composite, it does not have all that weight to carry like a concrete platform, as it turns."

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 the parlor's NaviGate Dairy Management System - the information can be viewed on a touch-screen in the parlor and the operator can make better informed decisions about how to manage the herd. "Basically it lets you know what's going on with your herds and you're not totally relying on your milkers to notice everything as the cows are being milked" says Brad, adding "It gives you peace of mind that things are getting done the right way and you know you're getting a consistent milking routine."

The NaviGate Sort Gate is also part of the dairy management system and allows Brad to

“I just think the constant, even flow of cows, coming in and out, that's very appealing.”

Brad Clinton
Farm Owner

MILKING PARLOR

automatically sort the animals as they come off the platform and exit the parlor, using animal ID reader technology.

While Brad said it took a little convincing for the herd to use the rotary for the first time "It took two or three milkings, after that they started walking on themselves. You notice that it's always the same cows that walk on first and the same cows that are the last to get on, they've got their own order".

Brad said the Centrus Composite Rotary Milking System will give Clinton Farms the ability to expand its dairy operation in the future, saying "At the moment we're milking 500 cows three times a day, it could handle 2000 cows if we want to get that big some time later. There is plenty of room for expansion."

The Clinton Farms' Waikato Milking Systems platform was the only one of its kind in the state of Wisconsin and has become a showpiece for the company.

Parlor:

50 bail Centrus Composite Rotary

Herd size: 500 cows

Key technologies:

- SmartECRs
- SmartD-TECT
- NaviGate Herd Management
- NaviGate Sort Gate

Commissioned: 2019

[SEE MORE IMAGES ON OUR WEBSITE](#)



PROJECT PROFILE: BECKSIDE FARM | CUMBRIA | UNITED KINGDOM

Milking time has been cut in half thanks to key milking automation technology.

With a 300 year family farming legacy behind them, the Morris-Eyton's embarked on a journey in 2019 to take their dairy operation and milking performance to the next level. The family farm is owned by Robert and Rowena Morris-Eyton, with their son Patrick and his grandmother as business partners as well. While the farm's old 12/24 herringbone system had been updated over time, it was starting to show its age - taking them three hours each morning and afternoon to milk their 210 cows. Wanting to increase their herd size and milking efficiency, they chose the premier and award-winning Centrus Composite Rotary Platform.

"We wanted to expand and one of our requirements was to be able to milk 200 cows per hour for one person as a minimum" says Patrick.

The new Centrus Composite Rotary was installed and commissioned in October 2019. Patrick says it has delivered the efficiencies they were looking for "having cut milking times in half easily" without having to push people to work faster than a comfortable speed.

To reduce their milking time Beckside Farm's fitted milking automation to their Centrus Composite Rotary parlour. The technology included Electronic Milk Meters to record milk data - which is a requirement of their contract. SmartECR automatic cup removers were installed to ensure the clusters are removed at the correct time, which also assists with udder and teat health. And because they previously had an automated teat spray system, they installed SmartSPRAY to greatly increase efficiencies, while reducing labour during milking. "It means there is one less job to do when milking if it can be done automatically" says Patrick.

The new parlour was also fitted with the Waikato Milking Systems, NaviGate Dairy Management System to gather milking automation data on each cow so the farmer can make better management decisions for the herd.

As part of their research into the redevelopment they spent time talking to farmers with rotaries,



“We liked the composite deck on the Centrus platform. It is much lighter therefore, less wear on the running gear.”

Patrick Morris-Eyton
Business Partner

MILKING
PARLOR

and decided to go with Waikato Milking Systems because of the composite deck on the Centrus platform. "It is much lighter than a traditional concrete deck therefore, less wear on the running gear" says Patrick.

Patrick's research also showed the Centrus Composite Rotary deck had a higher level of resistance to chemicals, compared to concrete platforms.

Feedback from other farmers on Beckside Farm's redevelopment has been positive "They liked the milking automation technology, which allowed the milking parlour to do more but with fewer hours spent in the parlour. They also saw that working with the Centrus Composite Rotary was easier on the animals and the operator." says Patrick.

Patrick's advice to farmers looking to redevelop their old dairy parlours is "don't cut corners on technology that can make your life easier."

Parlor:

54 bail Centrus Composite Rotary

Herd size: 250 cows

Key technologies:

- SmartD-TECT
- Electronic Milk Meters
- SmartECR
- SmartSPRAY
- NaviGate Premium

Commissioned: 2019

[SEE MORE IMAGES ON OUR WEBSITE](#)



PROJECT PROFILE: MOORBY FARM - LONG ROAD DAIRY | TE AWAMUTU | NEW ZEALAND

Replacing two dairies with one, to improve efficiency and lift production

When John and Debbie brought their neighbour's farm they completed their first season in the two existing Herringbone sheds - milking 640 cows on the home farm, and 460 cows on their new farm. With five staff needing to be involved in milking, and three relief milkers covering time off, the idea had always been to undertake a major redevelopment and install a big shed at some stage to improve efficiency and lift their production.

As a part of their research into a new dairy plant, Waikato Milking Systems, and their dealer Qubik, flew John and Debbie to the South Island to look at several 80 bail sheds to give them an idea of what would work best for them. The decision was made to install an 80 bail Centrus Composite Rotary platform for its structural integrity and durability - and its composite deck that is 75% lighter than traditional concrete or steel alternatives.

Working alongside Waikato Milking Systems, John

and Debbie worked out what technology and automation they would put into the shed, and in November 2018 construction began, with the new dairy being commissioned in July 2019. And from their first day of milking, Waikato Milking Systems and Qubik were on-site for three to four days for every milking, fine-tuning the system to ensure everything was running efficiently.

The technology fitted to the Centrus was chosen by John and Debbie to make milking time easier and more efficient, while reducing the amount of labour required.

SmartSPRAY has meant that the cows udders can be sprayed straight away, so there are no variables with teats closing or not being sprayed on time, making it better for the cows - while SmartD-TECT stimulates pre-milking so the cows let their milk down faster. The device also provides early warnings

“Waikato Milking Systems has proven products, and their dealer Qubik are based nearby to us in Te Awamutu, so if something goes wrong they’re not far away. That’s really important to us.”

John & Debbie Moorby
Farm Owners

MILKING PARLOR

Parlor:

80 stall Centrus Composite Rotary

Herd size: 1150 cows

Key technologies:

- ECR Plus
- SmartD-TECT
- SmartSPRAY
- BailGate Straps

Commissioned: 2019

[SEE MORE IMAGES ON OUR WEBSITE](#)





GLOBAL HEADQUARTERS

T: +64 7 849 8755 **F:** +64 7 849 5923

29 Innovation Way | Northgate Business Park, Horotiu | Hamilton, New Zealand

PO Box 20325, Hamilton 3241 | New Zealand | customerservice@waikatomilking.com

AUSTRALIAN OFFICE

G11/61 Mackenzie Street, Melbourne, VIC 3000

customerservice@waikatomilking.com

UK OFFICE

JB Wheaton & Sons Ltd, Chard Junction, Somerset, TA20 4QN

customerservice@waikatomilking.com

IRELAND OFFICE

Waikato Milking Systems Ireland Limited, Glenmaquin, Letterkenny, Co Donegal, F92X8C1

customerservice@waikatomilking.com

USA OFFICE

Waikato Milking Systems USA

275 Investment Court, Verona, Wisconsin 53593, USA

Phone toll free: +1. 866 648 6455

CHINA OFFICE

Waikato Milking Systems China

No., Room 315, Third floor of Zhongtai International.

269 Fuyupo Village, Sanjianfang Township,

Chaoyang District, Beijing

customerservice@waikatomilking.com

waikatomilking.com



Growing the value of dairy