



CENTRUS COMPOSITE ROTARY MILKING SYSTEMS

AROUND THE CLOCK MILKING PERFORMANCE AND PRODUCTIVITY



Improve your milking performance and productivity 24/7
and elevate the value of your dairy operation through
precision dairy farming

THE NEXT GENERATION OF ROTARY MILKING SYSTEMS, FOR NON-STOP PERFORMANCE

The Centrus Composite Rotary Milking System is a groundbreaking system designed to deliver unrivalled performance and productivity 24/7.

Engineered for continuous operation, even during cleaning, Centrus enables large-scale farms to operate more efficiently and profitably around the clock. Its composite construction offers unparalleled strength, making it lighter, longer-lasting, and more resilient in even the harshest milking environments.

This award-winning user-friendly system is trusted by farmers worldwide for its ability to improve the milking environment. The lightweight design of Centrus reduces the load on the running gear and creates a quieter, more comfortable milking environment. With advanced features that streamline operations, Centrus maximises efficiency, making the milking process easier and more productive.





ADVANTAGES



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.



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 wear and tear.



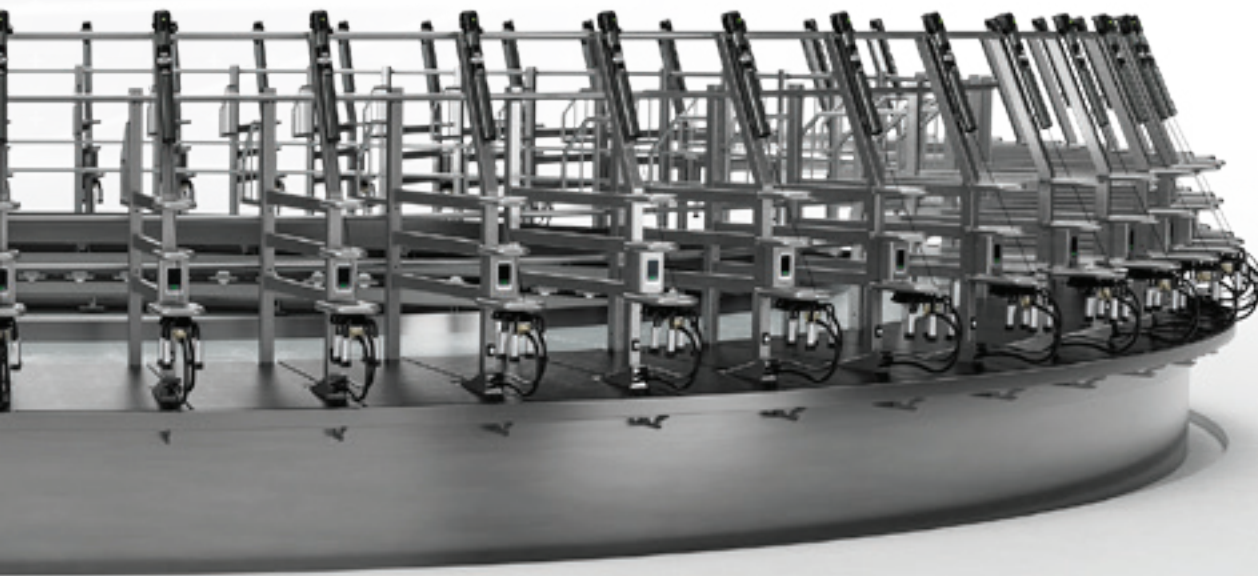
A quieter, safer working environment

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, quieter working environment.



Structural integrity and Chemical Resistance

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.



WHAT MAKES IT A SUPERIOR OPTION?



24/7 performance and productivity

Engineered for continuous operation, even during cleaning, the system enables large-scale farms to maximise efficiency and profitability while maintaining optimal milking conditions around the clock.



Faster stopping power

The design allows for fast stopping power, enabling rapid and reliable halting of the platform when necessary. This feature enhances operator safety and provides greater control, ensuring a secure and efficient milking environment for both cows and operators.



Future-proof design

The system's future-proof design allows for easy upgrades and integration of new technologies, ensuring adaptability to evolving industry standards. This flexibility enables farms to enhance efficiency and performance without significant investments in new equipment or infrastructure.



Quick installation, long-term durability

The system retrofits into existing sheds with no building modifications, reducing downtime and simplifying upgrades. The composite platform flexes under pressure, preventing cracks common in concrete, ensuring long-term durability. With no curing time, farms can begin operations immediately after installation.



Easy Upgrades

*Add automation such as
ECR's, SmartSPRAY and
Electronic Milk Meters*

**Lightweight
Composite Deck**
*Capable of constant
operation while reducing
wear and tear.*

Rubber Mats
For cow health

CENTRUS COMPOSITE

A standard installation includes...

WHAT'S INCLUDED:

PLATFORM

- Composite Deck
- Standard Domestic Stall Work
- Drive Unit
- Multi Roller Undercarriage
- Entry Crush Switch
- D-Gate
- Platform Operator Console - Cups On
- Overhead Radial Water Line

WHAT'S INCLUDED:

MILKING POINT

- Automatic Cup Removers
- Waikato Milking Systems Milking Cluster
- Cluster Washer (G2)
- SmartPULS Pulsation
- PulseGuard

WHAT'S INCLUDED:

MILK ROOM

- Milk Filter
- Plate Heat Exchanger
- Vacuum System
- Vacuum System Variable Speed Drive

WHAT'S INCLUDED:

MILK / CIP HANDLING

- Air Injector
- Rolled Filtered Air
- Rolled Jetter Wash Lines
- Main Air Lines
- Milkline
- Milk Delivery Lines
- Pulsator Airlines
- Receiver and Sanitary Trap
- Centre Gland
- Milk Pump
- Milk Pump Controller
- Milk Recovery System

ADDING FEATURES

Adding additional features to your rotary milking system platform can significantly enhance your dairy's operational efficiency and overall convenience.

Designed for demanding environments, these enhancements improve animal handling, optimise feeding, and streamline operator workflows, helping to reduce downtime and boost productivity. With a focus on safety, comfort, and hygiene, these upgrades allow for easier animal treatment, better drainage, and improved operator control, ultimately leading to a more efficient, comfortable, and safe working environment for both your herd and staff.

SOME OF WHAT YOU CAN ADD TO YOUR:

PLATFORM



Heavy Duty Stall work - Galvanised
For large scale 24/7 dairies with larger stock



Heavy Duty Stall work - Stainless Steel
For dairies with larger stock, easier to clean



Feed Bins
Enabling feeding during milking



Head Dividers
Prevents "feed robbing" between stalls



Dry Edge / Stainless Perimeter Rail
Allows water to drain away from the operator



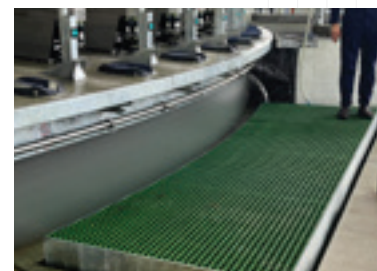
Platform Operator Console - Cups Off
Second console for convenience at cups off



Platform Operator Console - E-Stop
Can be activated in case of an emergency



Drop Down Vet Platform
Used for when treating animals on platform



OperatorLIFT
Electronic, height adjustable floor

FUTURE-PROOFING WITH AUTOMATION

Upgrading your milking point automation, animal management tools and hygiene equipment, within your dairy system, can significantly boost operator efficiency and cow health.

With faster, more reliable attachments, you'll reduce milking time and increase throughput, allowing you to milk more cows in less time. Modern equipment is gentler on your cows, helping prevent injuries and reduce mastitis, leading to healthier cows and better milk quality. You'll also benefit from real-time milk yield data, allowing you to make adjustments for optimal performance.

SOME OF WHAT YOU CAN ADD TO YOUR:

MILKING POINT



Automatic Cup Remover - ECR Plus
Advanced milking communications data



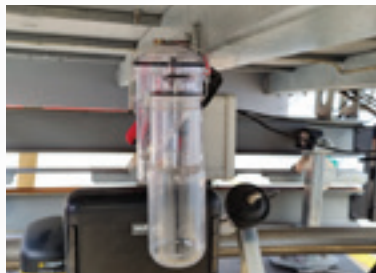
Vortex Shut Off Valve
High performance milk shut off value



Cow Restraints
Restrain cows automatically within the stall



Electronic Milk Meter
Real-time milking data to monitor performance



WMS Sampler
Takes samples for accurate milk analysis



User Display
Monitor animal status real-time at each stall



320HP Milking Cluster
Ergonomically designed, lighter weight cluster



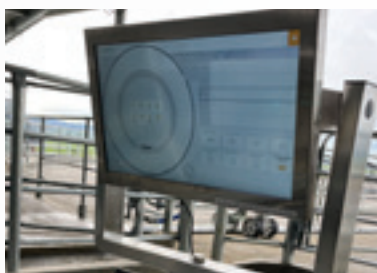
SmartD-TECT
Stimulation and udder health detection

SOME OF WHAT YOU CAN ADD TO YOUR:

ANIMAL MANAGEMENT



CowTRAQ™ Cow Collars
Heat and health monitoring 24/7



DairyHQ™ ParLOUR Management System
Real-time data for better milking decisions



Platform Positioning System
Precise data on location of milking platform



SortGATE (2600 or 5500)
Sort animals accurately and automatically

SOME OF WHAT YOU CAN ADD TO YOUR:

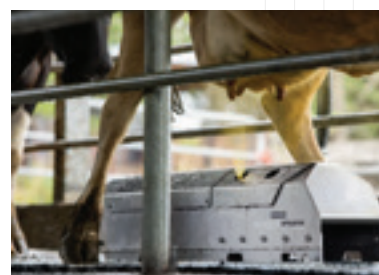
HYGIENE



SmartSPRAY
Automated in-bail teat spraying



Waikato Spray Arm
Automatic teat spraying for fast rotaries



WalkoverSPRAYER
Automated in-race teat spraying



Wash Sytem
Automated programme wash system

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 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





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



[PICTURED]
BRAD CLINTON
CLINTON FARMS
FARM OWNER
— WISCONSIN, USA

milking, 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.

Farm name:
Clinton Farms

Farm Owner:
Brad Clinton

System type:
50-stall Centrus Composite
Rotary Milking System

Herd size:
500

Location:
Wisconsin, USA

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, and decided to go with Waikato Milking Systems because of the composite





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

[PICTURED]
MORRIS-EYTON FAMILY
BECKSIDE FARM
FARM OWNERS
— CUMBRIA, UNITED KINGDOM

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.”

Farm name:
Beckside Farm

Farm Owners:
Morris-Eyton Family

System type:
54-stall Centrus Composite
Rotary Milking System

Herd size:
240

Location:
Cumbria, United Kingdom

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 of potential udder health problems, reducing treatment time and cost.

The platform also has BailGate straps to manage cows on the platform - which can be lowered or raised automatically when the cup removers are activated. This means they don't require someone to be working



“
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.
 ”



[PICTURED]
JOHN & DEBBIE MOORBY
 LONG ROAD DAIRY
 FARM OWNERS
 – TE AWAMUTU, NEW ZEALAND

at cups off - the cows are released from the platform automatically and begin their walk back to the paddock.

While there was a learning curve for the staff and animals, with most of the cows having to be pushed on at least once, the in-shed feeding meant “the cows were away” within three to four milkings, says John. And while John doesn’t want to be milking full-time for too much longer, the technology that has been installed on the platform will allow him to keep “an eye on how things are going”.

Farm name:
 Long Road Dairy

Farm Owners:
 John & Debbie Moorby

System type:
 80-stall Centrus Composite
 Rotary Milking System

Herd size:
 1150

Location:
 Te Awamutu, New Zealand



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Growing the value of precision dairy farming

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