

**ULTIMO**

**INTERNAL SHEEP**

ROTARY MILKING SYSTEM



# Milking efficiency, with maximum comfort.

*Improve your milking performance and productivity with the ULTIMO Internal Sheep Rotary Milking System and **grow the value of your dairy***

# Designed for your comfort, and the comfort of your animals.

Designed for large scale commercial sheep milk farming, the ULTIMO Internal Sheep Rotary Milking System has been designed to maximise comfort for the operator and the animals, and to reduce stress levels so the sheep let their milk down easily. The system has a forward direction flow with no bail dividers so they remain in contact with each other throughout milking, while providing the operator with full visibility of the animals at all times.

The Sheep Internal Rotary system is capable of milking up to 960 sheep per hour, and can be easily operated with minimal labour - providing you with large savings on labour costs. The system is available in three platform sizes of 60, 70 and 80 bails, and a Standard or Large size to cater for various breeds of sheep of differing sizes and body frames.

Constructed with an unparalleled build quality to ensure many years of trouble-free operation, the system allows you to add on from our range of world-leading dairy automation technologies to elevate your dairy's overall performance and productivity.



**Designed for animal comfort, with rubber matting, a stress-free forward direction flow and enticement feeding so sheep let their milk down easily**



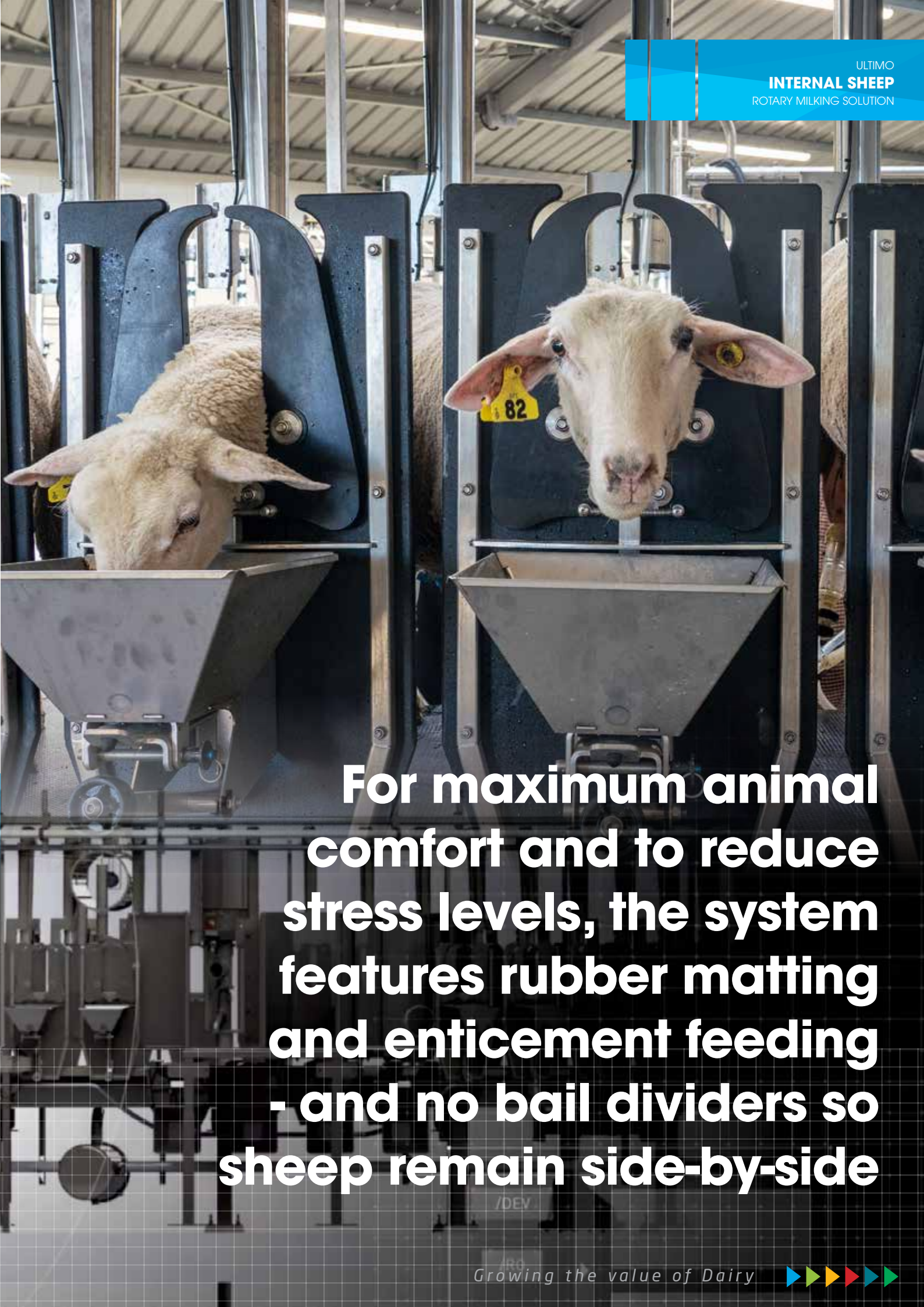
**Operator stationed internally has visibility of all animals at all times**



**Capable of milking up to 960 sheep per hour, at a 4.5min rotation speed, with minimal labour**



**Unparalleled build quality, using durable, long-life materials, superior to anything on the market**

The image shows a close-up of a rotary milking system. Two sheep are positioned side-by-side in individual stalls. Each stall has a dark blue rubber matting on the floor and a stainless steel feeding trough. The sheep in the foreground has a yellow ear tag with the number 82. The background shows the interior of a milking parlor with metal structures and overhead lighting.

**For maximum animal  
comfort and to reduce  
stress levels, the system  
features rubber matting  
and enticement feeding  
- and no bail dividers so  
sheep remain side-by-side**

# A life-long system, that will make your life easier.

The ULTIMO Internal Sheep Rotary Milking System has been designed from the ground up to provide you with a future-proof system that will stand the test of time - while maximising operator and animal comfort, and your farm's performance and productivity.



## Increased sheep comfort, reduced stress levels

The ULTIMO Internal Sheep Rotary Milking System has been designed to increase your sheep's comfort and reduce their stress levels so they let their milk down easily.

As sheep don't like to back up as they would have to on an external platform, the system is configured so your sheep are always moving forward, which lowers their stress levels. On the internal rotary system they walk forward onto the platform, and walk forward to exit the platform - which also eliminates any stressful training required for the sheep.

The entire deck of the platform also features rubber matting making it more comfortable for the sheep to walk and be milked on, and enticement feeding - which further reduces their stress levels.



## The capability to maximise your milking time, and minimise your labour

The ULTIMO Internal Sheep Rotary Milking System is capable of milking up to 960 sheep per hour, at a 4.5 minute rotation speed.

The system can be configured to suit your farm's unique requirements and the size of your flock to maximise your milking time and performance - and is available in 60, 70 and 80 bail size platforms, and a Standard or Large size, to cater for various breeds of sheep of differing sizes and body frames.

With an internal operator station to provide the operator with full visibility of the animals at all times, the system can be easily operated with minimal labour to reduce your employment costs.



## Built for strength, durability and longevity

The platform is constructed with an unparalleled build quality, using durable long-life materials that are superior to anything on the market - to provide you with unrivalled longevity.

With reduced wear and tear, the stainless steel platform also ensures lower maintenance costs, and makes it easy to clean even when exposed to effluent. With proper care and maintenance the platform will remain looking like new for many years to come. The platform can be stopped quickly in an emergency situation, or if triggered by automatic alerts or a manual control. The system also features long-lasting stainless steel feed bins that are hygienic and easy to wash and maintain.

The modular design of the ULTIMO Internal Sheep Rotary Milking System ensures a fast and easy installation of the milking system on your farm. The system is a bolt-down system which means an absolute minimum of pre-concrete work is required for installation - to speed up the process.



## Automation for performance and productivity

The ULTIMO Internal Sheep Rotary Milking System allows you to add on from our range of world-leading dairy automation technologies.

When the time is right, upgrading your system to suit your individual requirements is an easy and cost-effective way to continue to increase your farm's performance and productivity - and to future-proof your farm and protect your investment.



# Completely integrated system allows for future expansion.

The ULTIMO Internal Sheep Rotary Milking System is user-friendly and includes everything you need on your platform to milk efficiently and profitably - and you can add from our range of optional components to achieve even greater efficiencies, productivity and performance.

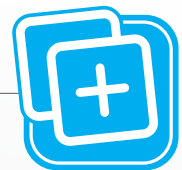
## WHAT'S INCLUDED | ON YOUR PLATFORM:

- Stainless Steel Deck
- Rubber Mats
- Head Lock
- Drive Units
- SmartFIT Mounting System
- Automatic Track Greaser
- Undercarriage - Fixed rollers
- Entry / Exit Bridge
- Crush Switch
- Feedbins (Self emptying)
- Lead Feed
- Operator Console
- E-Stop
- Park Switch



## WHAT YOU CAN ADD | TO YOUR PLATFORM:

- Entry Stairs
- Exit Ramp
- Feed to Group / Yield



*\* Refer to the full Sheep Milking Solutions Product Catalogue or visit [waikatomilking.com](http://waikatomilking.com) for more details on each product.*

# ULTIMO puts the future of farming in your control



High-performance features makes milking easier and more efficient



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



# Customise your plant with a range of options to milk more efficiently and profitability

The ULTIMO Internal Sheep Rotary Milking System is user-friendly and includes everything you need in your plant to milk more efficiently and profitably - and you can add from our range of optional components to achieve even greater efficiencies, productivity and performance.

## WHAT'S INCLUDED | IN YOUR PLANT:

- Waikato Sheep Cluster (with Automatic Shut Off)
- Silicone Sheep Liner
- Silicone Milk Tube
- SmartPULS (standard entry option)
- Filtered Air
- Receiver and Sanitary Trap
- Milk Pump
- Milk Pump VSD (SmartDRIVE)
- Auto Drains
- Rotek Gland
- Milk Filters
- Plate Heat Exchangers
- Milk Delivery Lines
- Wash Water Return System
- Stainless Steel wash Tub
- Jetter Wash Lines
- Air Injector
- SR Cluster Washer
- Vacumm Pump
- Vacuum Pump VSD (SmartDRIVE)
- Main Air Lines




## WHAT YOU CAN ADD | TO YOUR PLANT:

- SmartWASH
- Remote Plant Controller
- AutoDose
- Milk Recovery
- Second Vat Delivery



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**Our systems are  
proven performers,  
trusted by farmers  
around the world**



The fully integrated system - designed to work seamlessly together - provides you with reduced running and service costs



The ULTIMO system is user-friendly - delivering maximum milking efficiency and reliability

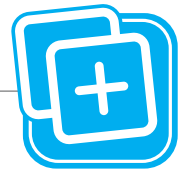
# Increase your productivity and performance by adding automation technologies

The ULTIMO Internal Sheep 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 ULTIMO to provide you with reliability and efficiency - and the ability to future-proof your dairy.

## **AUTOMATION YOU CAN ADD:**

### ECR-S Automatic Cup Removers

- Take Off Delay
- Retraction Speed control
- Short milking alert
- Waterproof User Switch
- Fast and easy parameter adjustments



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# Future-proof your dairy with automation that integrates seamlessly



Automation to enable you to milk faster and more efficiently, while reducing your labour to increase parlour productivity



Create a more enjoyable and efficient working environment, so you can spend less time milking and more time out of the milking parlour.



# How does the system work?

The ULTIMO Internal Sheep Rotary Milking System provides you with a milking solution that can easily be operated by one or two people. The system is configured to keep your sheep moving forward, which lowers their stress levels so they let their milk down easily. The entire platform deck also features rubber matting to maximise animal comfort and to ensure a quieter milking environment.



**1**

The plant will be fully set up and ready to go before the sheep are in the yards.

**2**

The sheep are herded into the yards. The yards are specifically designed for sheep, with a long, single race leading into the milking machine that is the same width as the sheep. This ensures they remain single file and are not doubling up at the entrance - and enter the platform one at a time.

**3**

The machine starts, and the sheep walk onto the platform as it rotates.

**4**

The sheep put its head in the feed bin, and the headlock locks it in place on the platform.

**5**

A laser at the entrance of the platform detects if there is a sheep in the nearest bail. If the laser light is broken because there is a sheep in front of it, the milking machine keeps rotating to let the next animal on. If the laser is not broken, the machine detects there is no animal in the bail, and the machine stops.

**6**

Sheep are gregarious animals who like to be in contact with each other, so the bails are open with no dividers. This ensures they can see and feel each other, and lowers their stress levels.

**7**

The sheep rotate around the platform, and the milking time can be between 2.30min to 3.00mins. You can maximise your milking efficiency by pre-setting the milking time and setting the platform to a speed where once they get to a certain point the cups come off.

**8**

As the sheep rotate toward the exit, the headlock automatically pops open and the sheep walk out the race and back into the drafting yard.

## Milking efficiency, with maximum comfort



**PROJECT PROFILE:** BROWNE PASTORAL | TE AWAMUTU | NEW ZEALAND

# New milking parlour giving the farm scope to expand the flock in the future

Allan and Toni Browne are “career sheep farmers” on their family’s combined 570-hectare property but a few years ago they began to investigate dairy sheep milking.

“We have about 450 cows but dairying is still new to us as a business,” Allan said.

In 2018, they leased some Southern Cross Dairy rams from Maui Sheep Milk to set up their dairy sheep operation. They also signed to supply Maui Milk. “It was more about access to the new European genetics, and to extract the value out of those genetics, we needed to have a milking parlour that could do that for us.”

They wanted a rotary system to milk 1200 sheep in the first season with scope to move up to 2000 later on. Waikato Milking Systems stood out as the preferred supplier because it could design and manufacture

the new plant in the same region as the Browne’s farm. Another bonus was knowing that service and support would never be too far away, Allan said. The 70-bail Ultimo Internal Sheep Rotary was a prototype for the company.

“We knew it was a novel design for Waikato Milking Systems but we took them for their word, that they were going to deliver for us, and they have.” The Brownes worked with Waikato Milking Systems Small Ruminants Specialist Andy Geissmann on concept and installation.

The rotary system is constructed from stainless steel, its longevity a key point of difference compared to other designs. Rubber mats fitted to the deck ensure the animals are comfortable at milking time. It’s an internal platform which means the operator is standing inside the rotary and can easily observe all of the sheep, all of the time.



“It was exciting watching the new parlour come together. It has been a bit of a journey, from breeding, construction of the new parlour through to the first tanker collection.”

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Allan Browne  
Browne Pastoral

Milking started in August 2020 and the rotary was “cranking out” between 600 to 700 sheep an hour, using three staff.

“Once the sheep are fully educated about how to use the rotary, we’ll be able to reduce labour from three to two people.”

The Ultimo rotary is fitted with ECR-S (automatic cup removers) technology to help the Browne family gain those labour-saving efficiencies. Allan said he had enjoyed watching the new milking system come together.

“It has been a bit of a journey, from gaining access to the European genetics for our sheep, breeding, construction of the new parlour through to the first tanker collection,” Allan said.

## PROJECT PROFILE:

### Parlour:

70 stall Ultimo Internal Sheep  
Rotary Milking Solution

**Herd size:** 1000 sheep

### Key technologies:

- ECR-S
- SmartPULS
- In-Bail Feed
- SR Cluster Washer
- Automatic Headlocks.

**Commissioned:** 2020





**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

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**UK OFFICE**

Harley Storage, Monkmoor Rd, Shrewsbury, SY2 5ST, United Kingdom  
brent.crothers@waikatomilking.com or simon.hoare@waikatomilking.com

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**USA OFFICE**

Waikato Milking Systems USA  
275 Investment Court, Verona, Wisconsin 53593, USA  
Phone toll free: +1 866 648 6455

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**CHINA OFFICE**

Waikato Milking Systems China  
China Educational Instrument & Equipment Corp Building,  
No.1 Bei Yi Xiang, DaMuCang HuTong, Beijing, 100032, China  
Michael.Liu@waikatomilking.com or david.morris@waikatomilking.com

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[waikatomilking.com](http://waikatomilking.com)

