



## **OPTIMA** GOAT EXTERNAL ROTARY MILKING SYSTEM

**MILKING EFFICIENCY  
WITH MAXIMUM  
COMFORT**



Improve your milking performance and productivity with the Optima External Goat Rotary Milking Solution and grow the value of your dairy

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

Designed for large scale commercial goat milk farming, the OPTIMA External Goat Rotary Milking Solution has been designed to maximise comfort for the operator and the animals, and to reduce stress levels so the goats let their milk down easily. The system features rubber matting and enticement feeding, and the unique cluster presentation arm ensures the cups and controls are at the optimal height so it's easy, fast and comfortable to use for the operator.

The OPTIMA External Goat Rotary Milking Solution is capable of milking up to 1330 goats per hour, and can be easily operated with minimal labour - providing you with large savings on labour costs. The system is available in seven sizes of 60 to 120 bails, in 10 bail increments, to optimise the platform's rotation period for the relatively short milking time required for goats - and has been designed to ensure your goats fit comfortably and correctly in the bails on the platform.

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



Unique cluster presentation arm ensures quick and accurate cup alignment for faster, more sustainable milking



Eliminates operator fatigue with no repetitive lifting of clusters, and no repeated untangling of rubberware for easier, faster cupping



Capable of milking up to 1330 goats per hour, at a 5 minute rotation speed, with minimal labour



Designed for animal comfort, with rubber matting and enticement feeding to reduce goat stress levels, ensuring they let their milk down easily

For maximum animal comfort and to reduce stress levels, the system features rubber matting and enticement feeding - and headlocks to keep your goats safe and secure.

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

The Goat External Rotary Solution 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.



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

The OPTIMA External Goat Rotary Milking Solution is capable of milking up to 1330 goats per hour, at a 5 minute rotation speed. The unique cluster presentation arm ensures fast, easy and accurate cup alignment for faster milking - without the need for the repetitive lifting of clusters, or the repeated untangling of rubberware.

The system can be configured to suit your farm's unique requirements and the size of your herd to maximise your milking time and performance - and is available in seven sizes of 60 to 120 bails, in 10 bail increments, to optimise the platform's rotation period for the relatively short milking time required for goats.

The OPTIMA External Goat Rotary Milking Solution system can be easily operated with minimal labour to reduce your employment costs.



## Increased goat comfort, reduced stress levels

The OPTIMA External Goat Rotary Milking Solution has been designed to increase your goats' comfort and reduce their stress levels so they let their milk down easily.

The headlocks ensure they remain secure and can only see what is in front of them, so they are unable to move out or be tempted to jump over into the next bail when they have finished eating.

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



## 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. This also avoids the expensive replacement costs of plastic feed bins that goats like to chew on.

The modular design of the OPTIMA External Goat Rotary Milking Solution ensures a fast and easy installation of the milking system on your farm.



## Automation for performance and productivity

The OPTIMA External Goat Rotary Milking Solution is fully compatible and upgradeable with Waikato Milking System's world-leading dairy automation technologies, and can be configured to include the Navigate Dairy Management System to automate your drafting and increase your milking efficiency.

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 OPTIMA External Goat 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 | ON YOUR PLATFORM:



- Stainless Steel Deck
- Stainless Checker Floor Plate
- Splash Tray
- Head Lock
- Welded Track
- Automatic Track Greaser
- Drive Units
- SmartFIT Mounting System
- Undercarriage - Fixed rollers
- Start / Stop Ropes
- Crush Switch
- Entry / Exit Bridge
- Exit Device
- Bail Blocker
- Lead Feed
- Operator Console
- E-Stop Console
- Feedbins (easy detachable)
- Head Dividers

## WHAT YOU CAN ADD | TO YOUR PLATFORM:



- Rubber Floor Mats
- Entry Stairs
- Exit Ramp
- Feed to Group / Yield

# OPTIMA 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 OPTIMA External Goat 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 Goat Cluster (with Automatic Shut Off)
- Silicone Goat Liner
- Silicone Milk Tube
- SS Dropper Set
- 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
- Vacuum Pump
- Vacuum Pump VSD (SmartDRIVE)
- Main Air Lines

## WHAT YOU CAN ADD | TO YOUR PLANT:



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

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



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 OPTIMA system is user-friendly - delivering maximum milking efficiency and reliability

# Increase your productivity and performance by adding automation technologies

The OPTIMA External Goat 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 OPTIMA to provide you with reliability and efficiency - and the ability to future-proof your dairy.

## AUTOMATION YOU CAN ADD:

- ECR-S - Lift to Start
- Cluster Presentation Arm - Push to Start
- Take Off Delay
- Short milking alert
- Waterproof bail switch
- Waterproof bail switch with LED indication
- Global parameter change
- Yield Sensor compatible
- Fixed Point Take Off
- Dairy Herd Management Compatible



## NAVIGATE DAIRY MANAGEMENT YOU CAN ADD:

- NaviGate Dairy Management
- Operator Console Display
- Wireless Milking Data Transfer
- Sorting from platform



# Future-proof your dairy with automation that integrates seamlessly



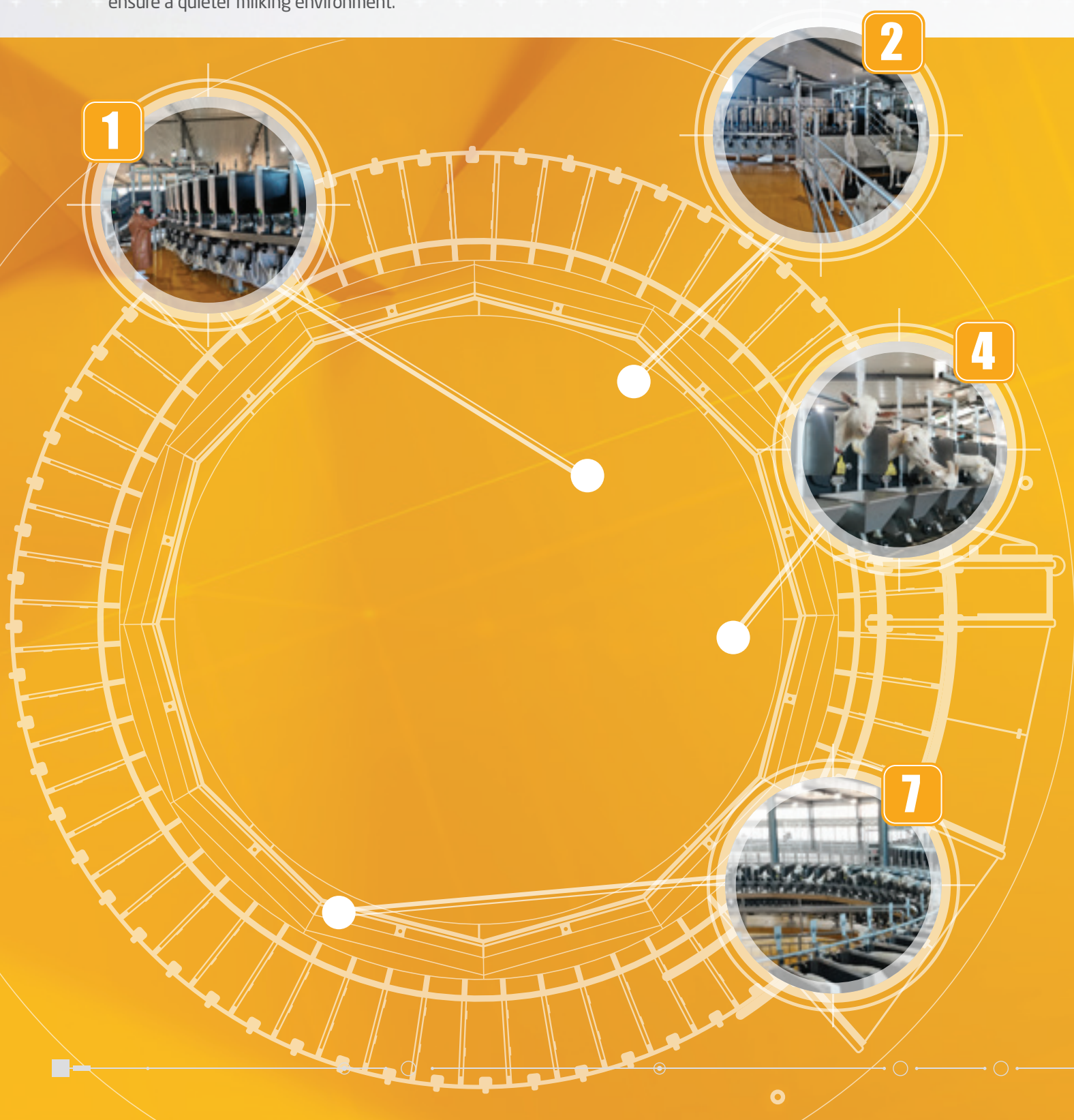
Automation to enable you to milk faster and more efficiently, while reducing your labour to increase parlour productivity



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 OPTIMA External Goat 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 goats comfortable and reduce 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 goats are in the yards.

2

The goats are herded into the yards. The yards are specifically designed for goats, with a long, single race leading into the milking machine that is the same width as the goats. 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 goats walk onto the platform as it rotates.

4

The goat puts 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 goat in the nearest bail. If the laser light is broken because there is a goat 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

The bails have walls to separate the goats so they are not tempted to jump around while they are on the platform.

7

The goats 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 goats back out of the platform and into the yard. The platform can be put into in reverse if required.

## Milking efficiency, with maximum comfort

PROJECT PROFILE: TWIN 90 BAIL GOAT ROTARIES | ZHANGBANG AG & ANIMAL CO | CHINA

# Unique twin rotary parlour reduces milking time and offers scope for expansion

The dairy goat industry in China is expanding and milk processors are moving to support their farmers so they can secure a reliable supply of milk. That's the case for the Shengjiang Group, which processes milk for the Zhengbang Group, near Hohhot in Northern China.

Zhengbang operates twin, 90-bail Optima External Goat Rotary parlours, manufactured by Waikato Milking Systems and installed in 2020.

The twin goat rotary parlours, built side by side in the same building, are thought to be the first of their kind in the world. The farm manager of the property said the new Waikato Milking Systems equipment is efficient, and the vacuum is stable.

"After two weeks of operation of the first rotary, it now takes less than one hour to milk 500 goats, compared to half a day, using a small two-point milking cart machine,

to process the same number of animals."

When the twin rotary systems are fully operational, they will be milking 4500 goats each, throughput will be 800 animals per hour, for each system.

Shengjiang Group also commissioned five, 60-bail Optima External Goat Rotary parlours on other farm properties near Hohhot. As herd numbers increase, each of the 60-bail parlours will milk 3000 goats and put through 550 animals per hour.

A second twin rotary installation was also completed this year for Weihe Farming west of Gansu. These are 100-bail systems which will milk 5000 goats each, with a throughput of 900 animals per hour.

Another two, 80-bail rotary systems will be installed in the South of China this year for other customers. Waikato Milking Systems Country Manager - China, David Morris, said most of the new external goat



“It now takes just one hour to milk 500 goats, compared to half a day, using a small two-point milking cart machine, to process the same number of animals.”

“

Hohhot Zhangbang  
Ag & Animal Co. Ltd

rotary systems will operate at 50 per cent capacity in the first year until the herd numbers increase. He said nine of the 11 parlours will be optioned with the highest specifications to increase efficiency and reduce labour requirements.

It included automatic cluster arm positioning to make cupping the animals faster with less operator fatigue, as well as automatic drafting to quickly sort the goats post milking.

Each rotary is installed with Waikato Milking Systems' NaviGate Dairy Management System.

David said New Zealand's reputation as a leader in agricultural technology, and Waikato Milking Systems reputation for designing quality products, proved to be a major attraction for dairy farmers and producers in China.

## PROJECT PROFILE:

### Parlour:

2x 90 bail Optima External Goat  
Rotary Milking System

**Herd size:** 4,500 goats

### Key technologies:

- Cluster Lift Arm
- Automatic drafting

**Commissioned:** 2020

**PROJECT PROFILE:** LAUGHING GOAT | WISCONSIN | USA

# A simple system to improve their milking performance and efficiency

When fourth generation cheesemaker Jean Rossard stepped down from his Montchevre goat cheese business in Belmont, Wisconsin, USA in 2018, he wasn't quite ready for retirement. So together with his sons Simon and Julien, Jean set out on a business venture which led to the establishment of a new dairy in 2019 - The Laughing Goat.

After starting out on a farm lease with 400 animals where Simon trained for approximately a year, the family decided to set up their own dairy near their home by Belmont in Lafayette County WI.

The family spent around a year looking for a new goat milking system to replace their 2 x 16 rapid exit system before deciding to go with the Waikato Milking Systems 60-bail goat rotary parlour.

Their goal was "to find a simple milking and feeding

system" that was driven by technology and constructed with high-quality materials that could withstand a harsh farm environment, while also being animal-friendly.

The Rossards were impressed with the system's rotary design, and its lightweight composite deck, and that the inflators, pulsators, vacuum lines and milk pipeline were accessible from both outside and inside the rotary. These features combined with the rotary platform, stalls and components being mostly built from stainless steel, hard plastic and rubber reinforced their decision to choose Waikato Milking Systems.

Jean says the rotary is easy to operate with only two people - one taking care of the milking, while the other moves the animals around and manages post-dipping.



“

*“We definitely think the Waikato Milking Systems goat rotary parlour and feeding system were the right choice for our farm”.*

”

Jean, Simon and Julien Rossard  
Laughing Goat, Wisconsin, USA

## PROJECT PROFILE:

### Parlour:

60 bail Optima External Goat Rotary  
Milking System

**Herd size:** 400 goats

### Key technologies:

- Automatic cluster presentation arm;
- Automatic cup detacher
- Milk yield recording
- Lead feed
- NaviGate Dairy Management System.

**Commissioned:** 2020

The goat rotary also features an automatic cluster presentation arm unique to Waikato Milking Systems which automatically returns the cluster to the platform height, ready for cupping, so the operator doesn't have to constantly bend over to reach for the clusters.

The family says their new rotary has lived up to their expectations, and they have hosted many farmers who have been interested in the system - adding that the cluster presentation arm and the automatic detach features “stood out” as two areas of interest for their visitors.

Jean says the new system “was definitely the right choice for their farm”.







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*Growing the value of precision dairy farming*

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