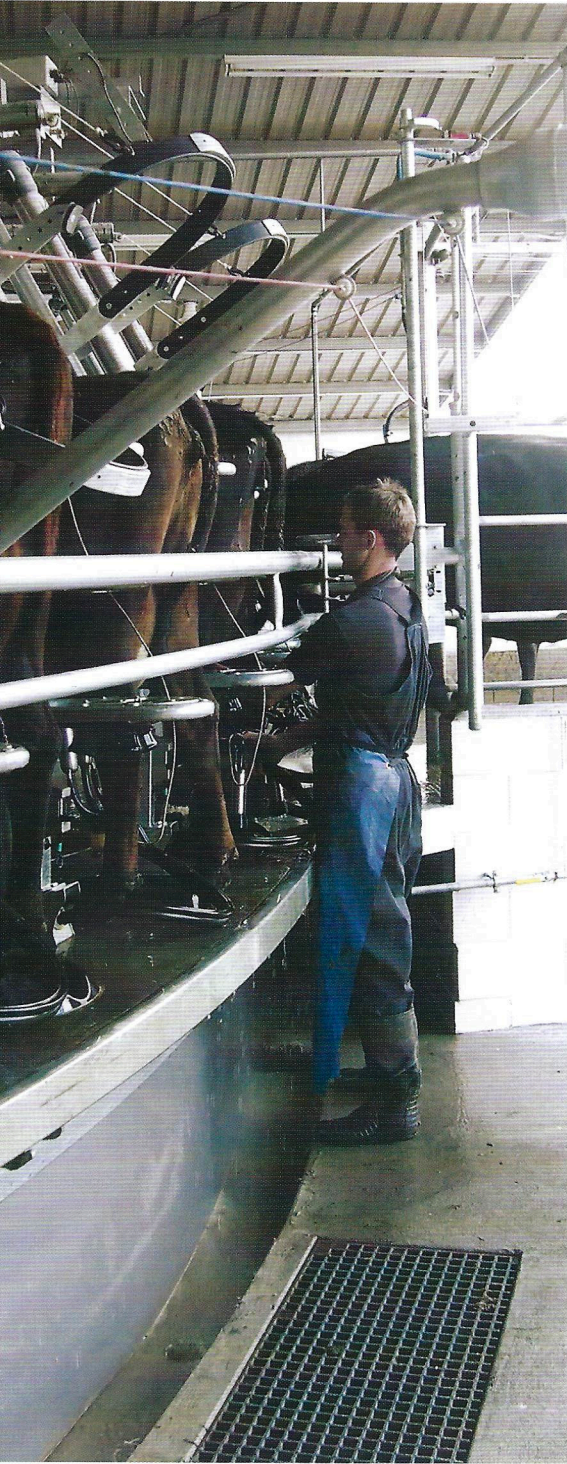


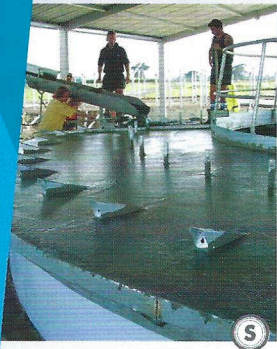
# Orbit Concrete Rotary Platform

Robust concrete platforms for an efficient milking environment

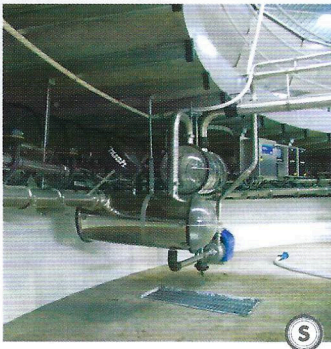




## Orbit Features



2.7m concrete deck



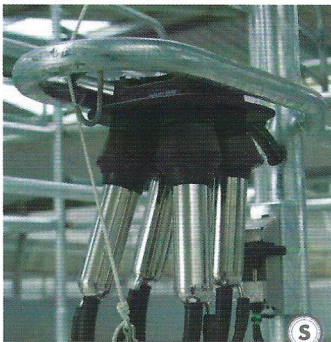
Milking equipment protected by deck overhang



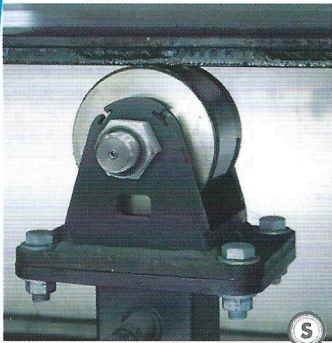
Robust concrete rotary plat



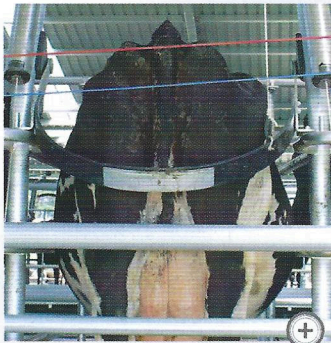
Standard Operator Console



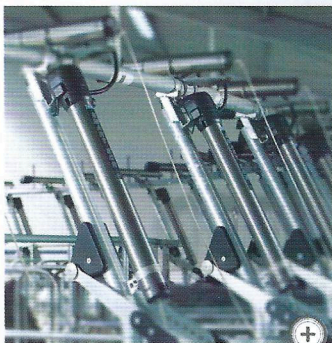
Teardrop ball design for cow comfort



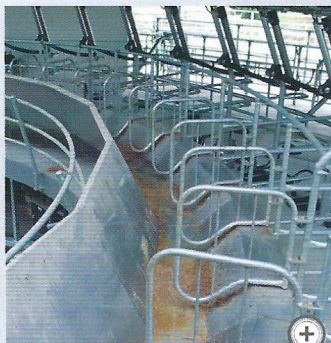
Standard roller



BailGate ready



Detacher ready



Feed bin ready

**Known for their strength and integrity, Orbit platforms are designed to integrate seamlessly with Waikato Milking Systems' dairy automation technology.**

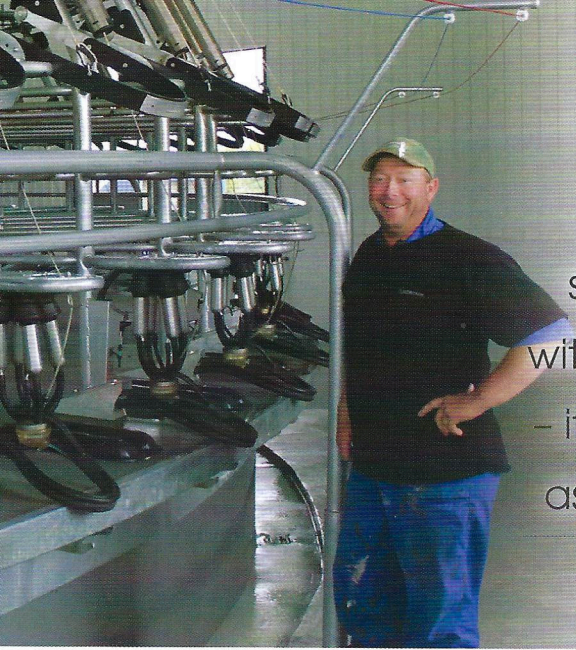
The design of an Orbit rotary platform provides operators with a clean, fast milking environment, cow flow on and off the platform is excellent and the milking equipment is easily accessible.

Buying an Orbit rotary platform is an investment in solid, proven technology. The design enables installing an off-the-shelf Waikato Milking System without any further additions or alterations. This is an important consideration as adding to a completed platform can compromise the integrity of the finished product.

The direction of platform rotation is selected at the time of sale. One operator control console is supplied with the platform that includes safety devices and protection equipment. SmartFIT mounting systems make equipment installation quicker and maintenance easier. With a 2.7m deck Orbit platforms also offer excellent protection for milking and electronic equipment.

KEY: **S** Standard features **+** Optional features





“It’s a fairly automated system where **one person can milk 850 cows** with a second bringing the cows in and assisting with clean-up. We’re pleased with the shed – it’s performing well, cow flow is good and as a consequence is a pleasure to milk in.”

**Campbell Shearer – South Canterbury, New Zealand**

## form for an **efficient milking environment** ▶▶

With a well-earned reputation for more than 25 years concrete rotary platforms have served the dairy industry well. Waikato Milking Systems Orbit rotary is a recognised leader and has proven over time to be the platform of choice for most New Zealand and many international customers.

### ADVANTAGES

- A quiet, efficient milking platform that is easy to use
- Wide deck allows for machine to be completely protected
- Unique deck ports allow for better cluster alignment and easy cluster application
- Deck slopes outwards which eases entry and exit from the platform as well as ensuring effluent runs to the outside of the platform.

### STANDARD FEATURES:

- 100mm concrete deck
- Hot dipped galvanised steel teardrop bail design ensures cow comfort and protects the milking equipment
- Large walkway in front of cows
- High strength steel rollers
- Simple lubrication system
- Full circumference control and emergency stop cord
- Heavy Duty D-Gate with integrated water jet
- Entry crush switch for cow safety
- Standard Operator Console includes start/stop, speed control, platform reverse and emergency stop
- SmartFIT Brackets for faster on-farm setup
- Fully compatible with all Waikato Milking Systems’ dairy automation technologies

### OPTIONAL FEATURES:

- Heavy-duty bails for the most demanding dairy environments - available in either galvanised or Stainless steel
- BailGate Cow Retention Straps
- Additional Operator Console or Emergency Stop
- Feed bins and head dividers for feeding during milking
- Ladder for easy access to the centre of the platform
- Multi Roller or Pivot Roller under carriage



## OPTIONS



### AUTOMATIC OILER

The electronic automatic oiler ensures that the track lubrication never runs dry. An automatic pumping system ensures a "no mess" easy refill of the oil reservoir under the platform.



### OIL RECOVERY

The Oil Recovery system collects the waste oil from the rollers ensuring that the oil is not spilt, keeping the dairy clean.



### MULTI ROLLER

The Multi Roller system consists of two I-beams and a set of rollers contained within a unique fixed carriage to ensure correct alignment with the beams. This allows the load of the platform to be distributed across a greater number of rollers which in turn reduces the point loading and increases durability.



### PIVOT ROLLER

The Pivot Roller maintains perfect alignment with the I-beam even under extreme milking conditions. Improved contact enhances roller performance while decreasing wear and tear of the platform. Combined with a 100mm I-beam contact strip the Pivot Roller is capable of supporting the largest rotary platform.



## OPTIONS



### HEAVY DUTY BAILS

#### Galvanised or Stainless Steel

For large scale 24/7 dairy operations you may choose to upgrade to the heavy duty bails. The HD Bails provide a level of strength and durability which will exceed the requirements of the most demanding dairy environment.



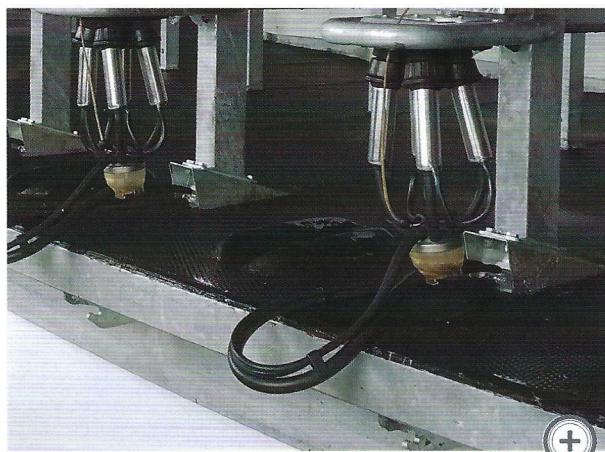
### FEED BINS AND HEAD DIVIDERS

Feed bins for your rotary platform enable feeding during milking. Plastic or stainless steel feed bin options are available and include a "robbing bar" between the bails.



### LADDER

A high quality, hot dipped galvanized steel ladder. This enables access to the centre of the platform when there is no underpass installed.



### RUBBER MATS

Cow comfort is enhanced with the addition of specially formulated and replaceable rubber mats in every bail. The mats are soft to stand on and protect the cows' hooves during milking while promoting a quieter milking environment.



## Built to Fit



A self loading CNC Tube bending machine is used to accurately bend the teardrop.



Skilled CNC operators roll galvanised pipe to individual platform specifications.



Robot welding machines are used for certain aspects of manufacturing to ensure continuity, quality and overall welding integrity.



## Precision Engineering ▶▶

### Building an Orbit Concrete Rotary

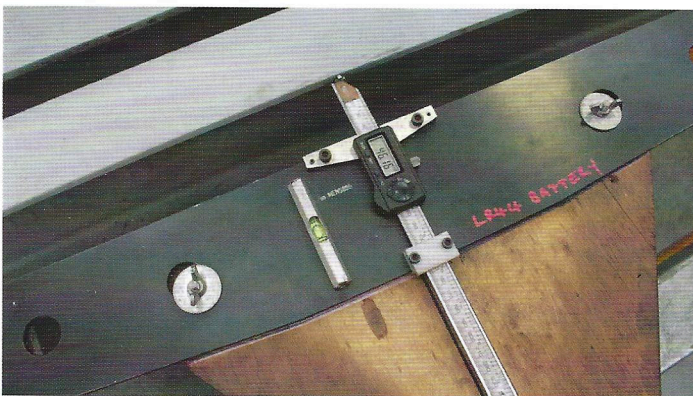
The care taken during the manufacturing process to ensure a high level of precision can only be attributed to the skill of our engineers. They produce components of the highest quality which are then used to build the most advanced rotary platform the dairy industry has seen to-date.

Controlling the process in a "state -the-art" manufacturing facility ensures every Orbit Concrete Rotary platform is built to perfection and integrates seamlessly with all Waikato milking systems. Developing a modern concrete deck, a fully galvanised sub structure and strong, robust bail work, is made possible by an in-house suite of integrated design tools to ensure each Orbit is manufactured with an extraordinary degree of precision.

On-farm this translates to a better component fit, better product integration and a higher level of product integrity. The result to you is a quality installation and the lowest cost of long term ownership of any rotary platform on the market today.

Orbit - a concrete rotary platform built for smart dairying.





A line cord measuring instrument is used to measure each section of the I-beam to ensure accuracy and consistency between sections.



Purpose built rotating jigs present the bail at the ideal angle to get the best possible weld.



Connected by "Bluetooth" data gathered from laser measuring equipment is transferred to an iPad. Data specific to the "I" beam is then printed and sent with the "I" beam to be used by the installing engineers when assembling the platform on-site.



An in-house, purpose built test bed replicates the actual assembly method used on-site. Final radius measurements are made and re-checked using sophisticated laser measuring equipment to achieve an accuracy within  $\pm 1.5$ mm of specification.



## PROJECT PROFILES



### **Aimee Wilson & Chad Tong** **Milbank Farm** Te Awamutu, NEW ZEALAND

<b>Herd Size:</b>	500 cows
<b>Number of bails:</b>	54
<b>Dairy Type:</b>	Orbit Concrete Rotary
<b>Key Technologies:</b>	SmartECRs, Bailgate Straps, SmartPULS & SmartWASH
<b>Commissioned:</b>	2016

Aimee Wilson and Chad Tong were milking in a 40 aside herringbone which started life, several decades earlier, as a 16 aside, subsequently undergoing two extensions. Three people were required to milk 500 cows during the peak and there was no cow flow.

The new 54 bail Orbit has resolved those issues taking one hour off milking with one person in the dairy.

Chad says the new dairy has transformed our lives, freeing us to spend more time with our children. The cows are happy, we're happy."



### **Crossroads Farm - Phillip and Sharon Dench** **Te Kawa, Te Awamutu, NEW ZEALAND**

<b>Herd Size:</b>	680 cows
<b>Number of bails:</b>	54
<b>Dairy Type:</b>	Orbit Concrete Rotary
<b>Key Technologies:</b>	SmartECRs, SmartD-TECT BailGates
<b>Commissioned:</b>	2017

In 2016 Phillip and Sharon Dench were faced with a total upgrade of the infrastructure of their Te Kawa dairy farm – effluent system, feed pad and dairy – to future-proof the business. It was taking two people 3.5 hours twice a day to milk the then herd of 780 cows through the 50 aside herringbone.

Phillip Dench says the new dairy is "all we'd hoped it would be. We've achieved our goal of labour efficiency with one person comfortably milking 680 cows in around two hours.

"It's really future-proofed the farm and we're rapt. Couldn't be happier."