



Centrus Composite Rotary Platform

Transforming the milking environment



BORN IN
NEW ZEALAND
DEVELOPED FOR
THE WORLD



Standard Features



Deck sloping outwards



Lower pit floor



Drive Units



SmartFIT Mounting System



Centrus Composite Rotary Platform - **lightweight, durable, easy clean** ▶▶

Centrus Rotary platforms out perform all others.

The latest generation of Centrus can now be tailored specifically to your requirements. Its development brings together three decades of knowledge culminating in a modern, composite rotary platform that's unique, structurally superior and extremely capable in any milking application.

Centrus can now be built in almost any size you want, by way of its single bail modular design. This too is a feature unique and specific only to Centrus composite rotary platforms.

The deck sections of the Centrus are formed in a multi-layer laminated process. The result is a deck which is 75% lighter and far more durable than traditional concrete or steel alternatives. With proper care, Centrus composite platforms will look like new for their entire life, never pitting or cracking with age or exposure to effluent and harsh chemicals.

Cow comfort is enhanced with the addition of specially formulated and replaceable rubber mats in every bail. The mats are soft to stand on, they protect

the cows' hooves during milking and promote a quieter milking environment.

Waikato Milking Systems manage each stage of the production and commissioning of each Centrus composite rotary platform – from manufacture through to the first milking – to preserve the integrity of this superb product.

The platforms arrive on site – anywhere in the world – accompanied by a specialist team who oversee the unloading, set-up and commissioning of every Centrus dairy platform.

ADVANTAGES

- Extreme lightness and strength translate to reduced wear, tear and maintenance
- Light weight enables platform to stop very quickly in emergency situation
- Deck surface, with proper care, will look like new for life of the platform
- Each stage of production is managed – from manufacture to first milking
- Consistent quality anywhere in the world - no concerns with sub-standard concrete supply

STANDARD FEATURES:

- Lightweight and durable modular composite deck sections, resistant to urine and chemicals
- High Strength
- Hot dipped Galvanised modular sub frame which the composite deck segments attach to
- Rubber mats in every bail
- Galvanised inner and outer rim plates
- Hot dipped galvanised steel teardrop bail design ensures cow comfort and protects the milking equipment
- Simple lubrication system
- Full circumference control and emergency stop cord
- Heavy Duty D-Gate with integrated water jet
- Standard Operator Console includes start/stop, speed control, platform reverse and emergency stop
- Entry crush switch for cow safety
- SmartFIT Brackets for faster on-farm setup
- Fully compatible with all Waikato Milking Systems' milking automation technologies

OPTIONS:

- 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
- Fixed Steel or Nylon Multi Roller under carriage
- Stainless Steel outer rim plate and dry edge option
- Ladder for easy access to the centre of the platform

OPTIONS



FIXED ROLLER

- No bearings to grease
- Rollers are quick and easy to replace
- Can be connected to a track oil collection system
- Simple in design
- Strong, robust and well proven



MULTI ROLLER

- Cast nylon polymer material specifically engineered for industrial roller applications
- Fixed carriage system to ensure accurate roller alignment
- No bearings to replace in the cast nylon rollers, lower operating costs - lowest cost of ownership
- No fuss automatic lubrication system



STANDARD STALLWORK

- An economical design for pasture based farms
- Bolt on any Waikato Milking System product including feed bins or feed troughs
- Years of trouble free service assured



HEAVY DUTY STALLS

- It is designed for use in 24 hour parlours
 - It is suitable for larger livestock
 - Stainless steel is resistant to chemical spray and effluent
 - The stallwork is easy to clean and maintain
- * AVAILABLE AS GALVANISED OR STAINLESS

OPTIONS



AUTOMATIC TRACK OILER

- Low maintenance oiling system
- Reduces friction between fixed rollers and platform
- Special blend of oil used for low speed, low temperature operation.



OIL RECOVERY SYSTEM

- Extracts used oil from the pedestal
- No need to manually drain the oil
- Ensures no oil spill on the substructure



FEED BINS / HEAD DIVIDERS

- Continuous Stainless steel feed troughs
- Add a feed system to your rotary platform at anytime
- Multiple head feed systems are available



CENTRUS SS OUTER EDGE

- Protects the front edge of a Centrus Platform
- Allows water to drain away from the operator
- Adds a finishing touch to the industry's most advanced rotary platform

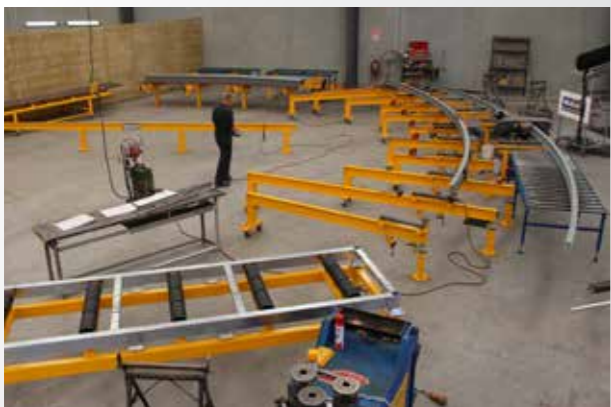
Built to fit



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



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 accuracy within +/-1.5mm of specification.



Precision Engineering

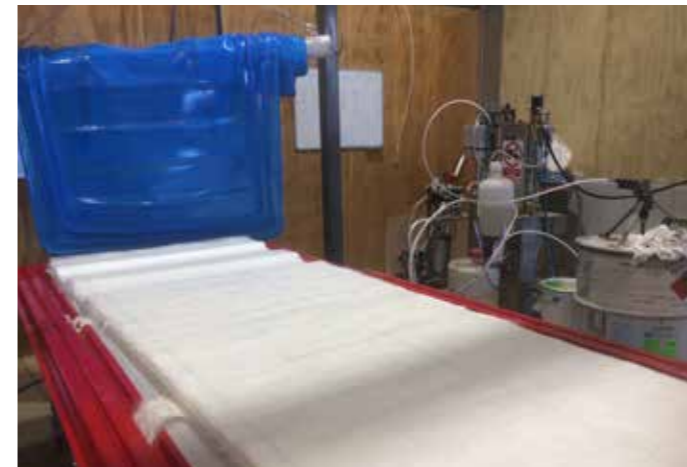
Building a Centrus Composite Rotary

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.

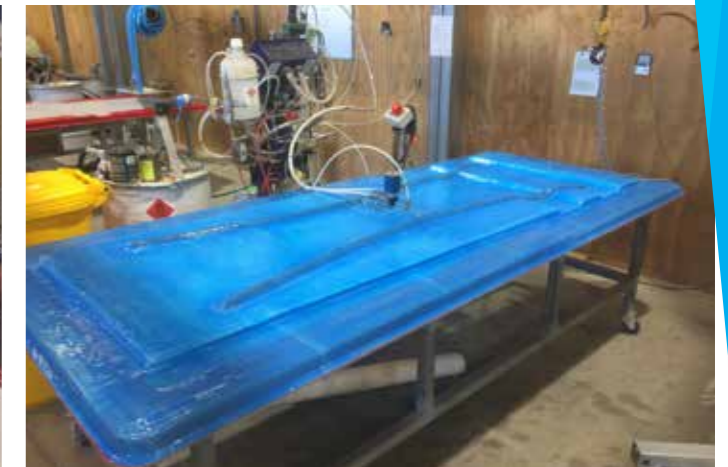
Controlling the process in a "state -the-art" manufacturing facility ensures every Centrus Composite Rotary platform is built to perfection and integrates seamlessly with all Waikato milking systems. Developing a modern composite deck, a fully galvanised sub structure and strong, robust bail work, is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

Centrus – a composite rotary platform built for smart dairying.



Deck section layed up ready for resin injection.



Deck section under-going the resin injection process using the latest silicone bagging technology.



Deck section fresh out of the mould with first machining cuts made.



Finished machined deck section.

PROJECT PROFILES

**Shane & Jacque Ashley**

Wardville, Waikato, North Island, NEW ZEALAND

Herd Size:	650 cows
Number of bails:	54
Dairy Type:	Centrus Composite rotary
Key Technologies:	SmartECRs, SmartWASH, SmartPULS, SmartSPRAY, BailGate Straps
Commissioned:	2015

In 2014, Wardville farmers Shane and Jacque Ashley were faced with the dilemma of having to replace an unsustainable farm dairy in a low pay-out season.

"It was taking nearly four hours to put 630 cows through the old 40 bail rotary which meant tail end cows were spending up to eight hours a day off pasture," Shane said. "We retained the existing yards and demolished the shed, rebuilding on the same site. This meant the demolition of the old and construction of the new had to be completed between seasons. "We're delighted with the shed - there's nothing we'd change."

**Bentham Brothers Dairy - Doug & Bruce Bentham**

McBain, Michigan, USA

Herd Size:	2000 cows
Number of bails:	60
Dairy Type:	Centrus Composite Rotary
Key Technologies:	SmartECRs, SmartD-TECT, Electronic Milk Meters, SmartPULS, SmartWASH, Navigate DMS
Commissioned:	2016

Until the early 1990s, herd growth on the Bentham family farm was limited by the Stanchion milking in the stalls of the barn. This was rectified when a neighbouring farm was acquired with a 12 aside herringbone.

By 2016, 1200 cows were being milked around the clock and a decision was made to build a rotary to enable the farm to reach its potential.

Bruce says the family is "really happy with the new platform. Three people work in the parlour, milking three times a day. Going with Waikato was the right decision."

PROJECT PROFILES

**Danie & Ananda Louw**

Eensgezind Farm Cape Town, SOUTH AFRICA

Herd Size:	1100 cows
Number of bails:	84
Dairy Type:	Centrus Composite rotary
Key Technologies:	SmartECRs, Afimilk Herd Management
Commissioned:	2016

Eensgezind Farm is one of the largest dairy farms in South Africa. A new parlour was needed to keep pace with herd growth from 900 cows to 2000.

The new parlour comfortably milks between 400 and 450 cows per hour. The new platform and technology have a tremendous impact on time management. "We used to milk for 17 hours a day but now that's down to 7 hours a day freeing-up time for other aspects of the business. The Centrus Composite Rotary Platform and the technology is helping us realise our vision for the farm."

**TerraNova Group**

Leningrad, St Petersburg, North-West RUSSIA

Herd Size:	2000 cows
Number of bails:	60
Dairy Type:	Centrus Composite Rotary
Key Technologies:	SmartECRs, SmartWASH, Afrimilk Herd Management
Commissioned:	2015

The TerraNova Group owns several dairy farms in Western Russia. It was taking six people between 5-6 hours to milk 1,000 cows twice daily through the original herringbone on the Leningrad farm and a new parlour was needed to support the farm's growth.

Project Manager, Hadley Trainis says the technology and ease of milking has halved the number of people required - and the time - to milk 2000 cows.

"Our new farm dairy is one of the most technically advanced in the North West of Russia, if not the whole country."

