



# CENTRUS 60 & 84

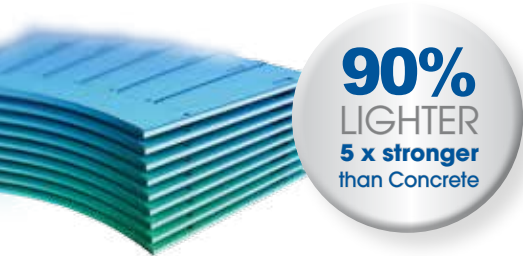
Centrus composite rotary platforms



INNOVATION | PERFORMANCE | DURABILITY | PROVEN

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## CENTRUS 60 FEATURES



**90%**  
LIGHTER  
**5 x stronger**  
than Concrete

### Composite platform

The deck sections are formed in a multi-layer laminated process that includes Kevlar a material used in the construction of aircraft.



### Rubber Mats

Cow comfort is enhanced with the addition of specially formulated rubber mats in every bail. The mats are soft to stand on so they protect the cows hooves and promote a quieter milking environment.



### Heavy Duty Bails

The HD bail is designed specifically for large-scale, 24-hour intensive dairy establishments. These are ideal for dairy operations with bigger cows and more demanding milking conditions.

*“Going with Waikato Milking Systems means my whole shed is set up for future proofing.”*

Alan Henderson, Cranleigh Agri-Business,  
Te Awamutu, NZ



## CENTRUS 60 — Offers superior deck strength

**Centrus composite rotary platforms offer superior deck strength. They are around 90% lighter and five times stronger than traditional concrete alternatives.**

The deck sections are formed in a multi-layer laminated process that includes Kevlar a material used in the construction of aircraft. The result is a superior strength deck, impervious working area and a platform that is 90% lighter than traditional concrete alternatives, meaning overall reduced wear and tear and lower maintenance costs. The drive gear will last longer and the surface finish will remain steadfast for years to come.

Each Centrus 60 deck segment is a fully integrated and self-contained structure engineered to include the mounting system needed to attach to the steel “I” beam. When bonded together the deck connects directly to the “I” beam avoiding the need for a steel platform substructure.

The decks are bonded by a unique high strength adhesive which is also used in the manufacture of aircraft and by NASA in the construction of its space ships.

The rotation of the Centrus 60 composite rotary platform is driven by Waikato Milking System’s new revolutionary self-aligning Pivot Roller. The deck is constructed in 10 six bail segments, complete with rubber mats for easy transport to the farm where it is quickly installed onto the “I” beam and fully adjustable roller system. Galvanised, premier heavy duty bail work set at export width ensures cows are safe and secure.

Two electric drive units controlled electronically by a Schneider variable speed control system are positioned equally around the parameter of the “I” beam. A total of one 2.2kW drive unit is all it takes to turn a Centrus 60. Strong, robust and resistant to just about anything, the Centrus 60 can be installed anywhere in the world with a milking system specified to your requirements.

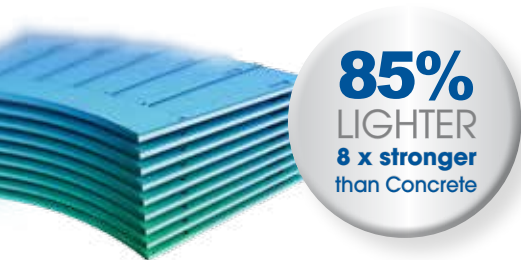
### FEATURES:

- Modular deck sections
- Premier heavy duty galvanised bails
- Powered by two 2.2kW drive units
- Impervious to urine and chemicals
- Fully adjustable 150mm pivot roller assembly
- Wider 100mm ‘I’ beam contact strip
- Pre-bracketed to accept all Waikato Milking Systems equipment

### BENEFITS:

- The most cost-effective, efficient 60 bail rotary dairy system on the market
- Lightweight platform reduces maintenance on running gear
- Utilise revolutionary new pivot roller system
- Lightness enables the platform to be powered by one 2.2 kW drive unit
- Deck surface will not degrade
- Rubber cow mats in each bail add to cow comfort
- Heavy duty, fully galvanised export size bail work ensures cow comfort and safety

## CENTRUS 84 FEATURES



### Composite platform

The deck sections are formed in a multi-layer laminated process that includes Kevlar a material used in the construction of aircraft.



### Rubber Mats

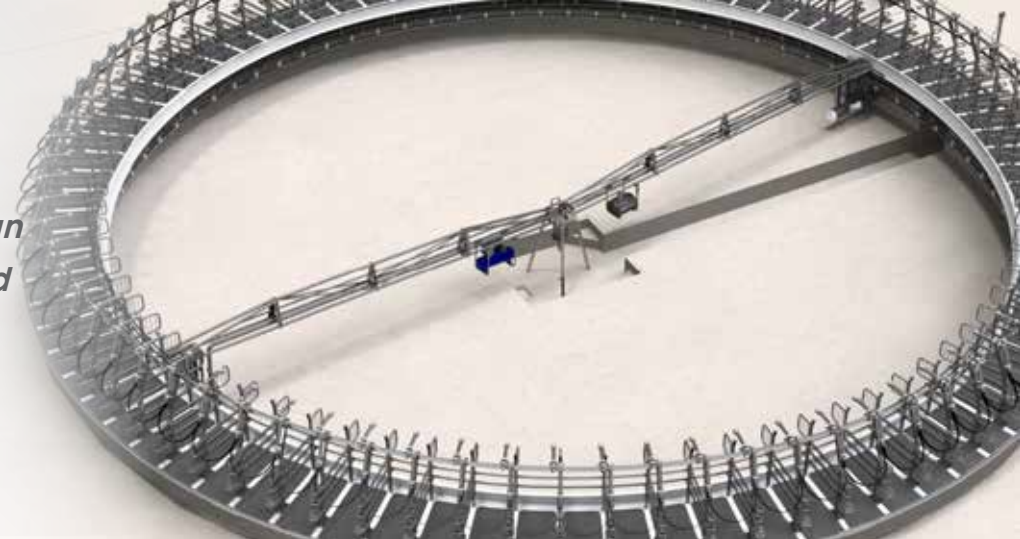
Cow comfort is enhanced with the addition of specially formulated rubber mats in every bail. The mats are soft to stand on so they protect the cows hooves and promote a quieter milking environment.



### Heavy Duty Bails

The HD bail is designed specifically for large-scale, 24-hour intensive dairy establishments. These are ideal for dairy operations with bigger cows and more demanding milking conditions.

*Strong, robust and resistant to just about anything, the Centrus 84 can be installed anywhere in the world with a milking system specified to your requirements.*



## CENTRUS 84 — Size, strength and durability

Designed, developed and manufactured in a purpose built facility Waikato Milking Systems has taken another giant step forward – this time in the evolution of Rotary Platforms.

The Centrus 84 composite rotary platform is the largest platform designed and manufactured by Waikato Milking Systems following on from the success of the Centrus 54 and 60 bail platforms. Using technology developed specifically for this project and the most modern composite materials available, the unique Centrus 84 provides the size, strength and durability required by a global market where very large herds and 24/7 milking are common place.

The deck sections of the Centrus 84 are formed in a multi-layer laminated process that includes Kevlar a material used in the construction of aircraft. The result is a superior strength deck and a platform that has seven times the structural capacity of a concrete platform in the circumference and 29 times the structural capacity in the radial

direction. Each Centrus 84 deck segment is a fully integrated and self-contained structure engineered to include the mounting system needed to attach to the steel "I" beam. When bonded together, with a unique high strength adhesive, the deck connects directly to the "I" beam avoiding the need for a steel platform substructure. The rotation of the Centrus 84 composite rotary platform is supported by Waikato Milking System's new revolutionary self-aligning Pivot Roller.

The deck is constructed in 14 six bail segments, complete with rubber mats for easy transport to the farm where it is quickly installed onto the "I" beam and fully adjustable roller system. Centrus 84 platform segments are used to build a complete deck which, when installed, transform into a lightweight, strong and impervious working area.

Three electric drive units controlled electronically by a Schneider variable speed control system are positioned equally around the parameter of the "I" beam. A total of 6.6kW is all it takes to turn a Centrus 84.

### FEATURES:

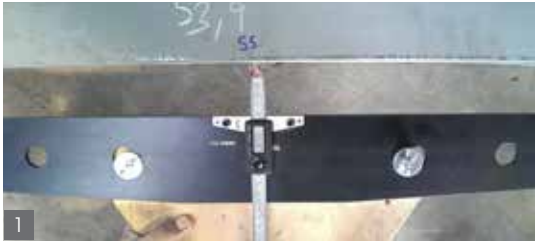
- Modular deck sections bond together for ease of assembly
- Powered by three 2.2kW drive units
- Variable speed drive controls platform rotation
- Impervious to urine and chemicals
- Fully adjustable 150mm pivot roller assembly
- Wider 100mm "I" beam contact strip
- Custom built pipe girders and rotary gland stand
- Pre-bracketed to accept all Waikato Milking Systems equipment

### BENEFITS:

- The most effective, efficient 84 bail rotary dairy system on the market
- Lightweight platform reduces maintenance on running gear
- Utilise revolutionary new pivot roller system
- Lightness enables the platform to be powered by three 2.2 kW drive units
- Deck surface will not degrade – impervious to most things
- Rubber cow mats in each bail add to cow comfort
- Heavy duty, fully galvanised export size bail work ensures cow comfort and safety

## PRECISION AND QUALITY

The "I" beam is fundamental to the performance of every rotary platform. We pay particular attention to detail during every step of the manufacturing process to ensure enduring excellence.



Steel sections of the "I" beam are formed to exacting standards to ensure strength and durability. A cord guide instrument with carbide tips is used to measure each section for absolute accuracy.



Typically 6 to 10 steel sections are needed for each "I" beam, depending on the size of the rotary platform. Each piece is "nested" against each other to verify consistency between sections.



The sections are then measured with a laser level to ensure there has been no distortion or twisting of the beam during the rolling process.



Final measurements are taken at five points on each section to ensure a smooth and consistent radius is formed when the sections are joined together to form the circular "I" beam.



## Precision engineering ensures exceptional performance

We pride ourselves on the precision and quality involved in manufacturing our rotary platforms. We control the entire process in-house and use only specialised equipment, processes and skilled engineers. By ensuring all parts of our rotary platforms are designed together and fit together perfectly, we ensure long product life while reducing maintenance and down time.

### "I" beam

The "I" beam is one of the most important structural elements of a rotary platform. This specially constructed circular steel track provides a reliable foundation for every platform rotation. Our precision engineering ensures each "I" beam is 100% accurately formed and calibrated for optimum performance. Time spent in careful manufacturing is time saved during installation and operation.



Pivot Roller

### ALL NEW PIVOT ROLLER

New pivot design enhances platform performance, extends roller life and lowers maintenance costs.

With the Pivot roller it's possible to maintain perfect alignment between the platform and its support structure (the 'I' beam). The resulting 100% contact enhances the platform performance minimising wear and tear.

### Key features

- Replaceable 150mm CNC machined cast roller
- 100mm Pivot Roller matched to 100mm contact strip on "I" beam
- Replaceable bearings and bushes
- Pre and post installation height adjustment
- Precision laser aided set-up process ensuring exceptional build quality.
- Safety guards on each Pivot Roller protect the operator

# Next generation technology



**Next generation technology** from Waikato Milking Systems is a range of clever, user-friendly devices that integrate to bring outstanding benefits to your milking routine. Advantages include easier milking, better mastitis control, improved milk quality and higher productivity. These products each have their own unique benefits but when used together the system brings even more powerful outcomes.

The beauty of this system is that you only buy what you want when you want. The unique plug and play design means adding new devices down the track is simple. The system is capable of managing more than 100 devices at each bail, ensuring a future-proofed dairy operation.

Next generation technology products connect to your milking system with ease and talk to each other through a robust industrial networking system. New generation technology makes milking easier and delivers results - saving you time and money in the dairy.



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