NEVADA PRODUCT CATALOGUE

Specialist provider of
DAIRY EFFLUENT EQUIPMENT

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nevada®
Sustainable Effluent Management

Welcome to Nevada

If you want to find out how to make the most of your effluent, you have come to the right place. We are dairy effluent equipment specialists; it is what we do, helping dairy farmers across New Zealand and Australia get the right equipment and best solutions for their farms.

Effluent is a fantastic resource that you can use to improve your soil health and grass growth across your whole farm. Effluent is teaming with nutrients; it just needs to be applied efficiently, and you will reap the rewards. You can often save thousands on artificial fertiliser costs.

How we can help

- We have expert knowledge of all dairy effluent management systems
- As accredited designers, we offer both electric-powered and tractor-driven options
- We hold a large inventory, so you can get what you need when you need it.

This catalogue will show you what we offer but if you need help deciding what system will work best for your situation, we are just a phone call away.

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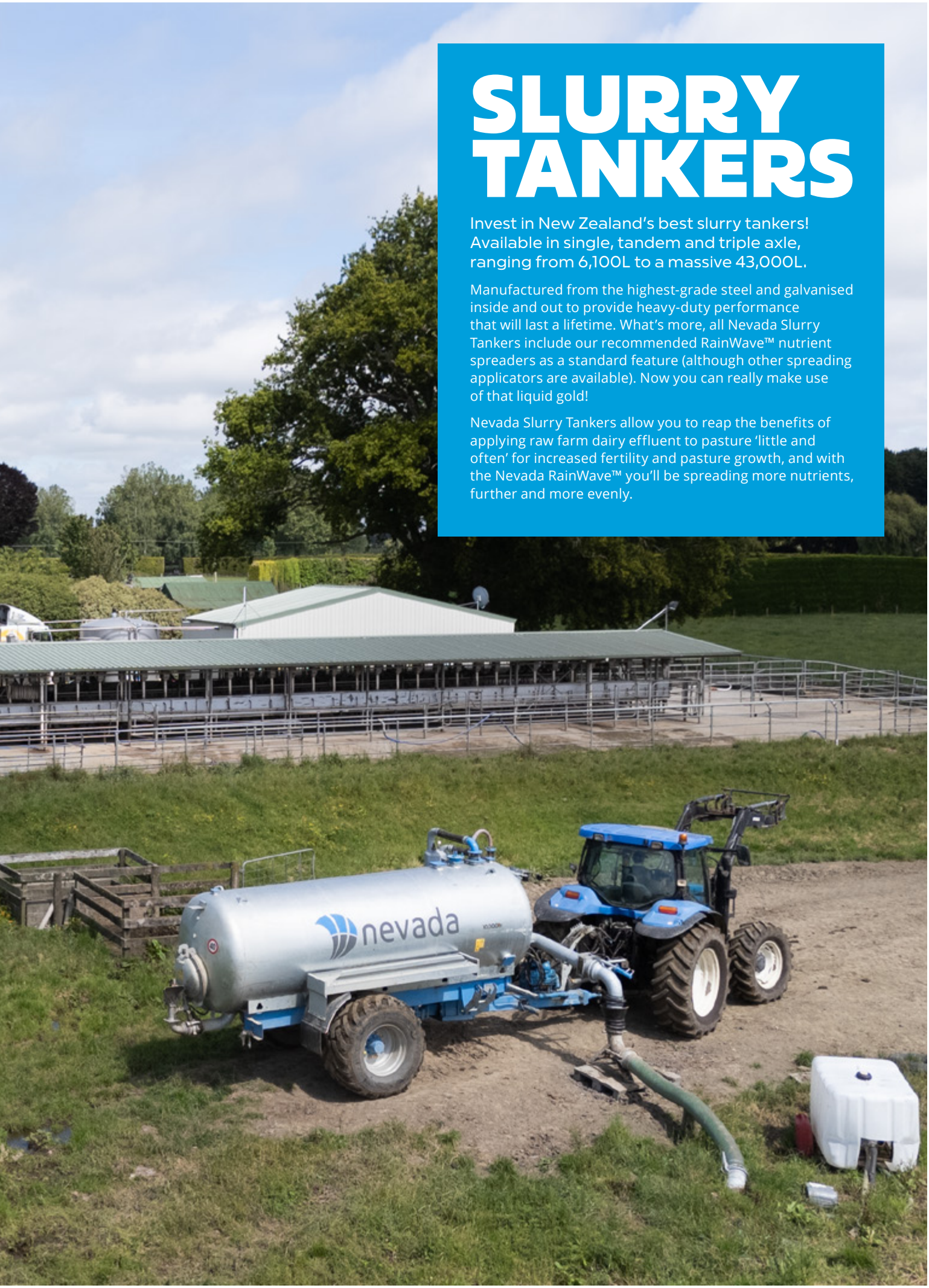


SLURRY TANKERS

Invest in New Zealand's best slurry tankers! Available in single, tandem and triple axle, ranging from 6,100L to a massive 43,000L.

Manufactured from the highest-grade steel and galvanised inside and out to provide heavy-duty performance that will last a lifetime. What's more, all Nevada Slurry Tankers include our recommended RainWave™ nutrient spreaders as a standard feature (although other spreading applicators are available). Now you can really make use of that liquid gold!

Nevada Slurry Tankers allow you to reap the benefits of applying raw farm dairy effluent to pasture 'little and often' for increased fertility and pasture growth, and with the Nevada RainWave™ you'll be spreading more nutrients, further and more evenly.

Why is a Slurry Tanker Your Best Option?

At Nevada we sell both slurry tankers and irrigators, but we do love our slurry tankers. Because we sell both, we've heard all the questions that farmers have wanted to ask over the years, so hopefully, you'll find the answers to your questions here.

Isn't it more time-consuming?

There is a perception amongst some farmers that a slurry tanker is a slow way to spread effluent and that couldn't be further from the truth. Slurry tankers are incredibly efficient systems. It takes three minutes to load 12,000 litres of effluent into a tanker and it takes three minutes to spread the contents of that tank. Let's say you have ten minutes travelling time to and from the paddock, which means you could spread up to 45,000 litres in an hour.

An electric system might do 20,000 litres an hour and that first hour is great because it switches itself on but now you have to set it up for another run and how much time does that take to drag the irrigator and hoses into place; an hour, an hour and a half? To do three runs you have to do three set-ups, you end up spending the whole day moving stuff around and you've only got 60,000 litres on your paddock, while if you are using a tanker, there is no setup, there is no mess, you control everything from the cab of your tractor. You just drive up to your pond, top-up and you're off.

Why do I need a tanker if I'm just spreading effluent around the cow shed?

The easy answer to that is you probably don't, but you could be missing a trick. It's quite common for people to spread effluent close to the cowshed, so they only cover 15-20% of the farm. Whether that is due to pump capacity, power availability or the length of their irrigation mainline, it means that over 80% of their farm is missing out from this valuable resource your cows are producing every day.

Effluent is rich in nutrients and with a slurry tanker you can reach every corner of your farm. This can save you thousands in fertiliser costs. You can also target the fields you have just grazed. Following your herd rotation will give the grass and soil the maximum time to reap the benefits of early fertilisation. This works out particularly well in Spring, a generally wetter time of year, when you have to move your cows more often. With an electric system, it is hard to create time to move the irrigators but with a slurry tanker it is easy to make it part of your daily routine and follow the cows.

Will a tanker damage my tracks?

All of our tankers have large floatation tyres that are braked and have tandem axles. The weight is spread evenly over the surface of the track, so there is minimal compaction. The tandem axles also have a steering rear axle that prevents scuffing; there is no skidding or dragging of the wheels. This makes the tankers highly manoeuvrable to help you navigate your farm, allowing you to access all those irregular-shaped paddocks that an irrigator can't get to. The tankers are also fitted with the world-leading ADR suspension system. This is not only more comfortable for the driver, it means the trailer is not bouncing over potholes. Large baffles within the tank, prevent the contents sloshing around and surging, so the weight is more consistent, making them very easy to tow.

An irrigator has a 40m spread, why is a tanker better?

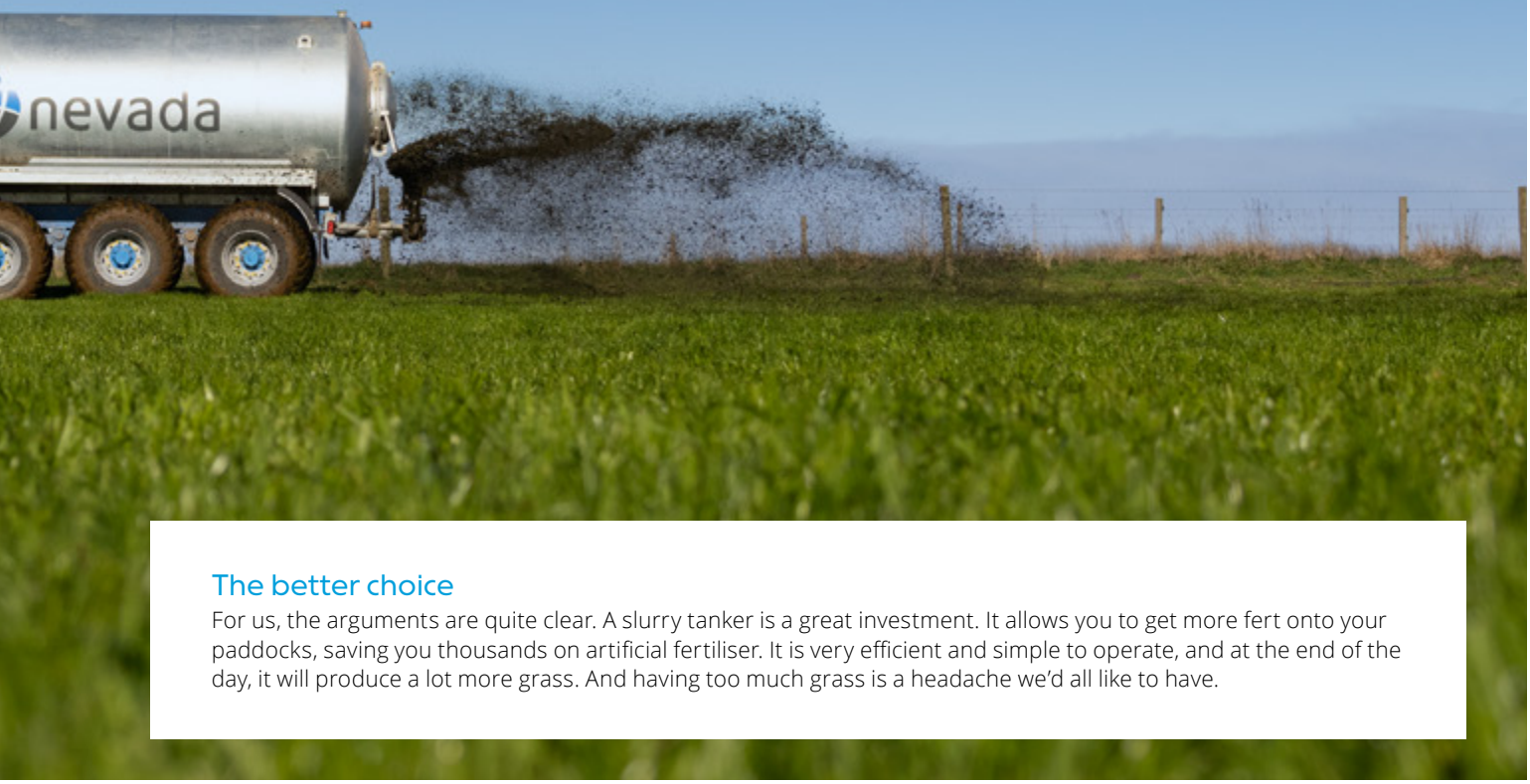
There are a couple of answers to that. Firstly, accuracy; you know exactly where you are spreading with a tanker. The tanker has a 12m spread, 4-5 metres either side of the tractor. That increases to 17m with a double rainwave spreader. To achieve a 40m spread, an irrigator creates micro dropplets. This mist is very difficult to control, it is thrown high in the air and is subject to wind drift and creates more odour. The tanker allows you to get to every part of your farm, closer to boundaries and waterways.

Wherever your cows go, the tanker can follow, creating grass for them to eat. The second advantage is the result of droplet size. The smaller particles that an irrigator creates are not only subject to more wind drift but also alight onto the foliage, which can result in foliage burn. The Nevada spreader creates heavier droplets that penetrate to the soil. This creates less odour, but more importantly, is better for soil health. The fert reaches the grass root zone and creates stronger, healthier plants.

Isn't an automated system better?

An automated system is literally a sunk cost, you are burying your capital expenditure. You can't re-sell it and have to live with where it is and what it can do. If you buy a neighbouring farm you're going to need more investment. A slurry tanker is not a fixed investment, it has a high resale value, if you have more land to service it is much easier to buy a bigger tanker. You can hire it out or go halfsies with your neighbour.

Maintenance is also much lower on a tanker. For a start, it is galvanised, and built to last. The pumps in a tanker work in a vacuum and are driven by compressed air, whereas the pumps in an irrigation system are in contact with the effluent, which is abrasive and very tough on machinery. Yes, an automated system works at a flick of a switch, but you have to take into account the time you need to set it up. Moving those irrigators into position is not only a lot messier, it also takes much more time.



The better choice

For us, the arguments are quite clear. A slurry tanker is a great investment. It allows you to get more fert onto your paddocks, saving you thousands on artificial fertiliser. It is very efficient and simple to operate, and at the end of the day, it will produce a lot more grass. And having too much grass is a headache we'd all like to have.

Single Axle

Ideal for smaller farms or if you need the ultimate manoeuverability.

Nevada Single Axle Slurry Tankers are a great choice if you've got a smaller farm or farm with softer soils. Manoeuvring in and around gateways and other tight access areas is a breeze, and you'll find less scuffing on grass (although a lot of Nevada tandem axle tankers have a steering axle).

Model	MB60-EX	MB60-EXA	MB80-EX	MB80-EXA	MB100-EXA
Tank Size	6,150L	6,150L	8,200L	8,200L	10,000L
Length	5.9m	5.9m	6.4m	6.4m	7.2m
Width	2.5m	2.5m	2.52m	2.52m	2.8m
Height	2.6m	3.3m	2.8m	3.3m	3.45m
Battioni Vacuum Pump Model	MEC 6000	MEC 6000	MEC 8000	MEC 8000	Ballast 13500M Air Injected
Vacuum Pump Flow	6,100L p/min	6,100L p/min	8,100L p/min	8,100L p/min	13,500L p/min
Axle Type	Single	Single	Single	Single	Extra HD
Wheels	560/45-22.5	560/45-22.5	560/60-22.5	560/60-22.5	600/55R26.5
Suspension	Drawbar optional	Drawbar optional	Drawbar optional	Drawbar	Drawbar
Auto-Filling Arm	No	8in Standard Front Mount	No	8in Standard Front Mount	8in Standard Front Mount
Applicator Type	RainWave™	RainWave™	RainWave™	RainWave™	RainWave™
Min Tractor requirements	60hp	60hp	80hp	80hp	100hp
Tare weight	2,380kg	2,530kg	2,880kg	3,300kg	4,500kg

**Other sizes & specifications available. Contact us about your requirements.*

Tandem Axle

Perfect for medium sized farms, tandem axle tankers perform better over rolling country, giving you a smoother ride than a single axle.

With more wheels there is less ground pressure, so you're less likely to get stuck in the paddock or mess the grass. Plus with the ability to cart loads of 10,000 litres and more, you'll be getting the job done a lot quicker!

Model	MB100-4R	MB120-4R	MB140-4R	MB160-4R
Tank Size	10,000L	12,800L	14,700L	16,500L
Length	7.2m	7.6m	7.9m	8.4m
Width	2.55m	2.55m	2.55m	2.55m
Height	3.3m	3.3m	3.3m	3.3m
Battioni Vacuum Pump Model	Ballast 13500M Air Injected	Ballast 13500M Air Injected	Ballast 13500M Air Injected	Ballast 16500MA Air Injected
Vacuum Pump Flow	13,500L p/min	13,500L p/min	13,500L p/min	16,800L p/min
Axle Type	Tandem	Tandem	Tandem	Tandem
Steering Axle	Yes	Yes	Yes	Yes
Wheels	560/60-22.5	560/60-22.5	560/60-22.5	560/60-22.5
Suspension	Axle & Drawbar	Axle & Drawbar	Axle & Drawbar	Axle & Drawbar
Auto-Filling Arm	8in Standard Front Mount	8in Standard Front Mount	8in Standard Front Mount	8in Standard Front Mount
Applicator Type	RainWave™	RainWave™	RainWave™	RainWave™
Min Tractor requirements	100hp	120hp	140hp	160hp
Tare weight	5,000kg	5,300kg	6,000kg	6,800kg

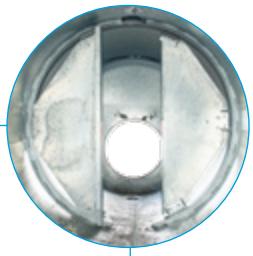
Triple Axle

These giants are the ultimate slurry tanker for contractors or if you've got a large, or multiple farms. Suitable to spread 20,000L or more.

With so many more advantages for carrying the weight, triple axle tankers 18,250 litres and above are by far the most cost effective option. Tractors above 200hp will have no trouble pulling these big boys. Steering on all axles ensure they're very manoeuverable, and with six wheels on the ground there's a lot less ground pressure, perfect for flat and gentle rolling land.

Model	MB180	MB200	MB220	MB250	MB310	MB340	MB370
Tank Size	18,250L	20,150L	22,200L	25,000L	30,800L	34,400L	37,000L
Length	8.8m	8.8m	9.2m	9.2m	9.6m	10.4m	10.4m
Width	2.55m	2.55m	2.8m	2.8m	3.0m	3.0m	3.0m
Height	3.5m	3.56m	3.6m	3.6m	3.9m	4.0m	4.1m
Battioni Vacuum Pump Model	Ballast 16500MA Air Injected	Ballast 16500MA Air Injected	Ballast 16500MA Air Injected	KTS 1080 Air Injected & Water Cooled	KTS 1080 Air Injected & Water Cooled	KTS 1080 Air Injected & Water Cooled	KTS 1080 Air Injected & Water Cooled
Vacuum Pump Flow	16,800L p/min	16,800L p/min	16,800L p/min	18,000L p/min	18,000L p/min	18,000L p/min	18,000L p/min
Axle Type	Triple	Triple	Triple	Triple	Triple	Triple	Triple
Steering Axle	Two	Two	Two	Two	Two	Two	Two
Wheels	560/60-22.5	560/60-22.5	560/60-22.5	560/60-22.5	600/55-26.5	600/55-26.5	710/50-26.5
Suspension	Axle & Drawbar	Axle & Drawbar	Axle & Drawbar	Axle & Drawbar	Axle & Drawbar	Axle & Drawbar	Axle & Drawbar
Auto-Filling Arm	8in Standard Front Mount	8in Standard Front Mount	8in Standard Front Mount	8in Standard Front Mount	8in Standard Front Mount	8in Standard Front Mount	8in Standard Front Mount
Applicator Type	Duo RainWave™	Duo RainWave™	Duo RainWave™	Duo RainWave™	Duo RainWave™	Duo RainWave™	Duo RainWave™
Min Tractor requirements	200hp + Hydraulics	200hp + Hydraulics	220hp + Hydraulics	250hp + Hydraulics	300hp + Hydraulics	340hp + Hydraulics	340hp + Hydraulics
Tare Weight	8,440kg	8,640kg	9,640kg	10,440kg	11,140kg	12,040kg	12,540kg

Features
FRONT VIEW



Internal Baffles
To prevent fluid surges.

Filling Arm
High capacity 8in Auto-Fill. Can be set-up to fill from left or right side.

Huge Siphon Container
For vacuum pump protection

Galvanised Tank
High durability, high anti-corrosion, damage protection inside and outside the tank

Overflow Protection

Auto-Fill Retainer Clamp
For extra durability

Large flotation tyres
For safety on rolling terrain and reduced soil compaction. Longer-lasting, high resistance to puncture. Different sizes available on request

Swivel Tow Hitch
Reduces jarring over uneven terrain and added safety in case of tanker tipping sideways. Scharmuller ball and spoon also available

Pond Filling Station
With large 0.5m funnel for quick alignment. Rubber for flexibility and ultimate suction

Heavy Duty Italian Vacuum Pump
For high capacity loading and discharge

Tank Bolted to Full-Length Chassis
To increase durability

Trusted for Safety & Reliability

2 Year Warranty

Features
REAR VIEW

Tank Sight Glass
For easy viewing of effluent level

Steel Implosion Rings
Built into tank for increased durability

Pressure/Vacuum Gauge
For easy visual control

Large Rear Hatch
For easy access and cleaning

RainWave™
Achieves a wider spread.

Quick-Attach Suction Hose Coupler

Hydraulic Parking Jack
For quick and easy hitching

LED Tail Lights
For on-road use

Drawbar Suspension
For smoother travelling

Heavy Duty ADR Hydraulic Brakes
Brakes on every wheel

Hydraulic Steering
improves cornering with heavy loads

High Quality ADR Suspension System
Reduces jolts and impacts travelling through to the tank. Hydraulic or Air suspension also available. Providing greater stability and operator safety.

NEVADA FILLING OPTIONS

Large 8inch Auto-Filling Arm

Comprising of the 8inch auto-fill arm and a large pond side easel, the Nevada Ezy-load system makes filling your tank a breeze.

This easy to use system is standard on all Nevada Slurry Tankers 10,000L and larger.

From the comfort of your tractor seat, use the hydraulics to lift and lower the auto-filling arm into the large pond-side filling station. Then the pump does all the work.

Loading time depends on the size of the slurry tanker and pump capacity, but the Ezi-load system will typically take only a few minutes to completely fill the tank. Once filled,lift the arm using the controls in your cab, and the slurry tanker is ready to go and start spreading across the entire farm. It makes the whole process of spreading effluent fast and efficient.

Loading Arm Options

Loading your Slurry Tanker should be fast! Nevada offer a range of additional loading arm options such as a Side or Telescopic Loading Arm and a Dorsal Boom.

Side Loading Arm

Side loading arms are best for contractors and farms with multiple storage ponds, giving you the ability to pull up and suck effluent from the pond without the need for a hose and easel. Telescopic arms extend, giving you an extra 1m. Available in 8" or 10".

Dorsal Boom

A dorsal boom, or double jointed filling arm is ideal for reaching into above ground tanks or out to ponds to suck up effluent without the need for a hose and easel. Size: 8" – 200.

Loading Accelerator

Standard on Nevada Triple Axle Slurry Tankers, a loading accelerator paired with the Nevada HydraHub can speed up filling by upto 30%, getting you back out spreading faster.

By forcing the effluent into the tank, it requires less vacuum suction, which also means less foaming. It's especially handy when dealing with thick slurry, such as what you'd get from slatted floor cow barns.

An Electro-Hydraulic System

HydraHub is Nevada's very own electro-hydraulic system, easily controlled from the cab. Designed for situations where several hydraulic points are required, the HydraHub control system keeps everything simple and efficient. Whether you're running different applicators, adjusting flow, or switching between spreading methods, HydraHub ensures smooth operation for all your effluent applications.

When do I Need HydraHub?

HydraHub is required when adding a different applicator option to your slurry tanker, adjusting flow, or switching between spreading methods and comes standard with the following options:

- Triple Axle Slurry Tankers
- Trailing Shoe applicators
- RainGun applicators
- Disc Injector applicators
- Loading Accelerator
- Dorsal Boom


‘That RainWave™ is a huge advantage over other tankers. It’s exceeded our expectations.’
- Lyn Baggott, Dairy Farmer - Canterbury
nevada

APPLICATOR OPTIONS

RainWave™

Nevada slurry tankers come with RainWave™ applicators as a standard feature.

RainWave™ nutrient spreaders use low pressure combined with an oscillating fan pattern to achieve a wider, more controlled spread. Larger droplets mean virtually no wind drift, allowing effluent nutrients to be spread evenly. Single and tandem axle tankers have a single RainWave™ with a nozzle diameter of 77mm can deliver a spread width of upto 15mtr (duo optional), and triple tankers come with a Duo RainWave™ that consists of two RainWave™ applicators with a nozzle diameter of 62mm, which can deliver a 21mtr spread width, for faster spreading whilst also being able to get an even lower application.

Benefits

- Gentle low-pressure rain pattern
- Self-drive oscillating swiveling mechanism
- Ideal alternative to dropper booms
- Large droplet size, so very minimal wind drift and odour
- Safe tractor speeds (less than 7km/h - Single & 11k/hr - Duo)
- Very even spread pattern, almost double the width of a traditional splash plate
- Better nutrient use
- Less pasture damage
- Better for the environment
- Handles thick slurry (up to 20% solids)
- Low maintenance
- Shorter stand-off period

Specifications

	Single RainWave™	Duo RainWave™
Nozzle size	77mm	62mm each
Application width	15m Single	21m Duo
Application depth	1-20mm	1-20mm
Volume	3200L/min	4,400L/min

Nevada RainWave™ vs Traditional Splash Plate

The main difference between a Nevada RainWave™ and a traditional Splash Plate effluent applicator is the way the effluent is spread.

A comparison we often use is to imagine the difference between shaking a hose from side to side, or getting a hose and putting your finger over the edge to create a fan. Each method has its advantages, but also different levels of efficiency when it comes to spreading nutrients on the farm.

Nevada RainWave™

The RainWave™ is designed to have an oscillating system that is self-driven. There is no hydraulic or electric drive, it simply oscillates from side to side to give a nice wide and even spread of effluent across the paddock. As the system oscillates, large droplets fall through the grass/crop onto the ground surface. There are virtually no wind drift issues and no volatilisation of nitrogen disappearing into the atmosphere. With minimal smell or odour, the Nevada RainWave™ gives an advantage for efficient and accurate spreading.

Standard on Nevada Single and Tandem Axle Slurry Tankers, the RainWave™ applicator provides a wider, more controlled spread compared to a splash plate applicator. Nevada's larger range of Tankers, the Triple Axle series come fitted with a duo RainWave™. Offering more control for larger tankers with a 17 metre spread width, plus creating a fast and efficient unload time, so you can easily go back and grab the next load.

Splash Plate

With a splash plate, effluent hits the plate with pressure to break up the particles. The fine nitrogen particles can dissipate into the atmosphere which causes wind drift. Particularly in windy conditions, airborne particles can make the tanker dirty creating more potential issues of odour. Splash plates lack efficiency with an uneven spread. With more placement just behind the tractor instead of out to the sides, the spread will not reach as far as other methods. However, a splash plate offers low maintenance and can be fitted to any tanker set up.

Results

In terms of spread and pasture growth results, the RainWave™ is more comparable to a dropper boom or trailing shoe, rather than a direct comparison to a splash plate. The RainWave™ may need occasional maintenance due to the oscillating mechanism, but is far less than implementing a dropper boom or trailing shoe as an applicator option.

Every Nevada Slurry Tanker comes complete with a RainWave™ applicator, making it easy for effluent spreading with little set-up. The Nevada RainWave™ can be easily retro-fitted to most slurry tankers, giving you a simple upgrade for better effluent distribution.

Not sure if a RainWave™ or a splash plate is the best fit for your set-up? Our team is happy to help – get in touch to find the right solution for your effluent management needs!

RainGun

If you're looking to spread over crops and hills as well as your standard paddocks, a RainGun may be just the thing.

Yes, you really can do it all with one machine!

RainGun's can be fitted to the top of any of the Nevada slurry tanker. Using a Garda pump (see more page 21), RainGun's spread up to 70m, allowing you to spread over areas where you cannot, or do not want to drive through. These could be hills that can't be reached, crop paddocks or over tracks.

For spreading over more standard areas simply use the standard RainWave™ applicator. It's easy to switch from the Garda pump to the slurry tanker's standard heavy-duty vacuum pump with the touch of a button, utilising Nevada's electro-hydraulic control system, HydraHub (see more page 11).

Trailing Shoe

Accurate placement while minimising odour, wind drift, and evaporation. Teamed up with a Nevada Tandem 14,700L Slurry Tanker, this Trailing Shoe ensures unparalleled precision, delivering essential nutrients precisely where they are needed.

Thus minimising odour and evaporation. Effluent is placed directly to the soil (base of the plant) there is virtually no volitisation, wind drift, and no crop spoiling.

The Nevada Trailing Shoe assembly has a 8.6m working width and is ideal for farmers or contractors spreading up to 5,000,000 L/yr. And can be fitted to any size Nevada Slurry Tanker.

Features

- OPTICUT PROFI
- Rear lights
- Hydraulic clamping
- Manual width adjustment (with ball valve)
- Manual tramline shut-off (with ball valve)
- Hydraulic's controlled in the cab with Nevada's HydraHub
- Other sizes available

Specifications

Working width	8.6m
Number of distribution hoses	40
Diameter of hoses	38mm
Number of cutting heads	1
System opening / closing time	15s/18s
System safety clamping	hydraulic
Weight	750kg

Disc Injector Unit

Want something with almost no odour, zero wind drift and no nitrogen loss? A disc injector may be your best bet.

As the name suggests, disc injectors inject effluent directly into the soil. Not only will you benefit from next to no smell, volitisation or wind drift, but the cows can return to grazing almost immediately.

Available in 6.4m or 7.2m working widths, disc injectors are larger, heavier units, requiring hydraulics and significant skill to operate.

In some areas, injecting directly into the soil can run the risk of leeching. For this reason, we generally only recommend disc injectors when it is necessary to inject directly into soil.

Other Options

Spreader/Splash Plate

Commonly used for hillside spreading, splash plates are available upon request, however inverted or not, they are generally not recommended. The modern methods of spreading is with a RainWave™.

What is the Fastest Irrigation Method to Get My Paddock Back Into Rotation?

When it comes to implementing an effluent management style to get a paddock back into rotation, it is important to utilise a system that applies effluent thoroughly into the ground.

This can be approached either with an umbilical system, or a slurry tanker. With a RainWave™ attachment or trailing shoe system on a slurry tanker, a paddock can easily be irrigated often to maintain optimal nutrients.

Preparing Paddocks

There are limitations in where effluent can be applied when a farm has an irrigation system in place.
A slurry tanker is much more suited for faster irrigation methods that can be applied to any paddock, at any time, on the farm.

When there is a limited area, it can create a challenge for farmers who are applying effluent to paddocks too close to re-grazing. A quick return back into the paddock is typically not necessary when there is a good management system in place that involves spreading effluent behind the cows as they are moved to different paddocks.
This approach ensures nutrients are being applied efficiently for the next rotation.

Back Into Rotation

When it comes to getting your paddocks back into rotation and ready to graze again, there are certain times of the year that the grass could benefit from additional nitrogen. Particularly in early spring when the clover is not active, additional nitrogen can be added to the effluent to increase the impact on the soil in the form of UAN or dissolved UREA to ensure a better response. Additional nitrogen in the effluent is best applied with a slurry tanker that provides minimal loss of nutrients.

Slurry Tanker Application

Slurry tankers are the most effective method due to the fact there is full control of the application rate. It is easier to avoid drains, boundaries, water troughs, and other obstacles that can cause obstruction when irrigating paddocks. With a RainWave™ attachment, effluent is applied in larger droplets that apply nutrients directly to the root structure. Any other form of application causes loss of nitrogen as it passes through the air before being applied to the soil.

A slurry tanker also provides access to irrigation in one trip, which saves more time. Rather than having to irrigate over several days with a regular irrigation system, it is possible to do more than one paddock every few days. After milking, there is ample time to apply effluent quickly to paddocks to ensure absorption for the next rotation.

Fresh and Often

When there is restricted time and minimal staff available, it is easy to send workers out to fertilise a paddock.
A Nevada Slurry Tanker and RainWave™ attachment offer an easy set up and are straightforward to operate without getting dirty or the need to handle drag hoses.
It is recommended to spread effluent little and often with a slurry tanker that is always ready to go anytime as fresh is best! Spread effluent as soon as possible after it goes into the pond or other effluent storage facility.

Never underestimate spreading fresh and often, as it gives a great return on investment and delivers excellent results. Chat with our team today to learn more about the best effluent management system you can implement for your dairy farm. With the right equipment and system in place, you can have healthy herds and paddocks all year round.

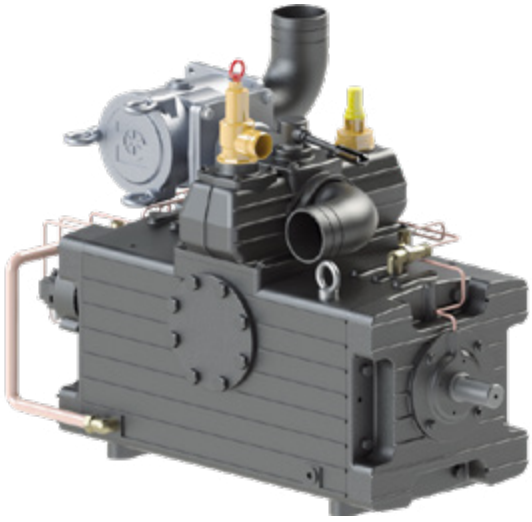
Vacuum Pumps

All Nevada Slurry Tankers have heavy duty Italian vacuum pumps as a standard feature. These PTO pumps are ideal for the majority of dairy farming operations and are equipped to handle thicker slurries.

The standard pumps for 6,000-8,000L models include long life vanes, and a long duty cycle providing a reliable and low maintenance operation ample for slurry tankers of this size/capacity.

Standard vacuum pumps on 10,000L models and larger include long life vanes, but are also air injected with integrated crash protection (ICP), and an even further increased duty cycle. Given the increased size, and therefore usage requirements of larger tankers, these vacuum pumps are specifically designed for near a continuous duty cycle of 70%.

Nevada 25,000L and up triple axle slurry tankers are fitted with a Battioni KTS 1080 Vacuum Pump (pictured right). The KTS design provides maximum performance by offering both water and air injected cooling systems, giving the KTS range a near continuous duty cycle of 95%. In the event of a vane crash, the KTS Crash Protection System prevents damage to the housing or rotor, allowing for quick and cost-effective repairs in the field.



Alternative Options

Hydraulic Drive Vacuum Pumps

Hydraulic drive variants are available upon request. Hydraulic drive pumps are ideal if you're wanting an easier set-up with your tractor than PTO. They also reduce wear and tear on PTO and driveline components, especially with high maneouvering.

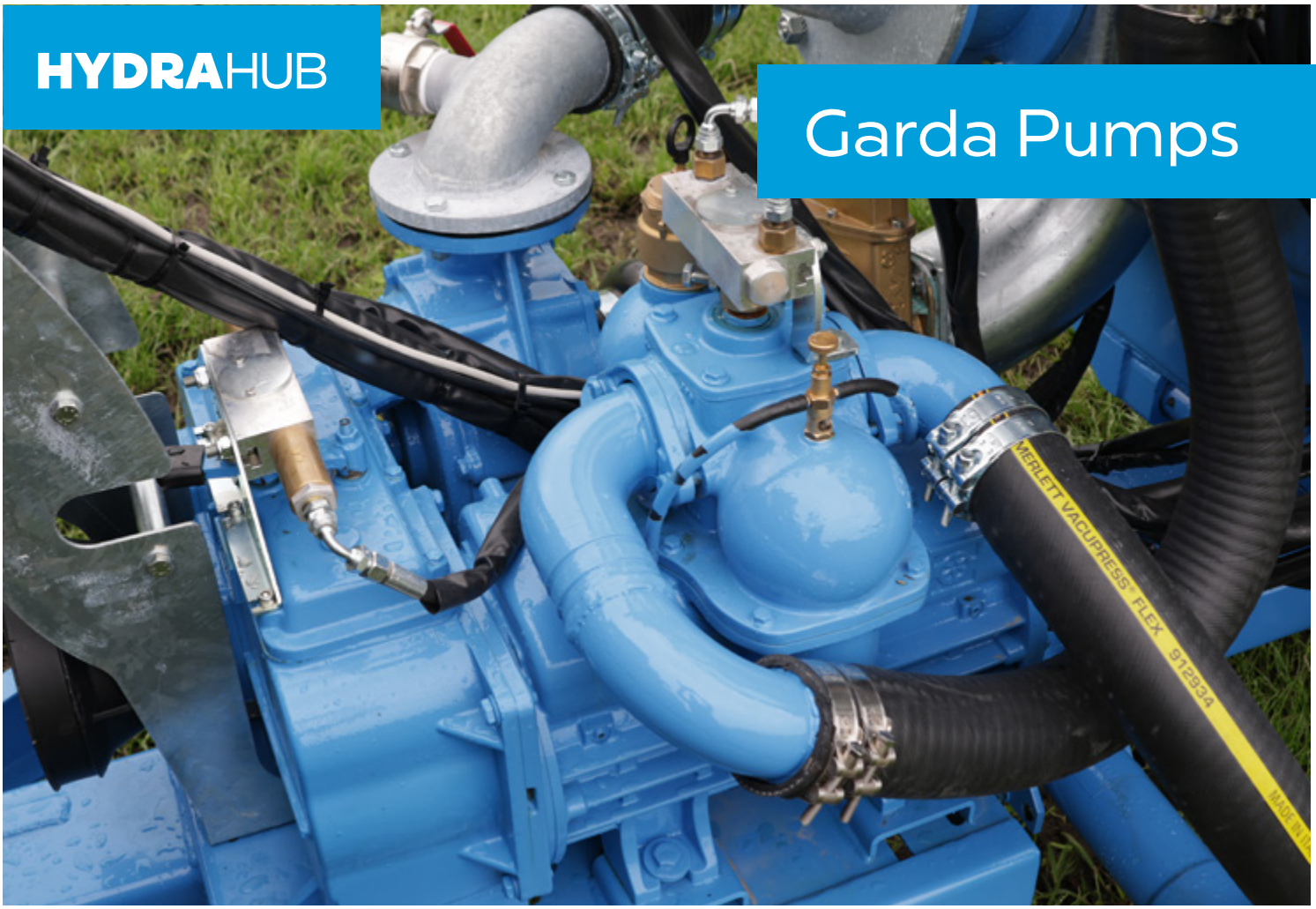
Water Cooled Vacuum Pumps

Water cooled vacuum pumps can be fitted where required. These are ideal for high demand applications with thick slurries, and/or when working in high ambient temperatures where air cooling alone would be insufficient.

** Further options available. Talk to us about your requirements.*

HYDRAHUB

Garda Pumps

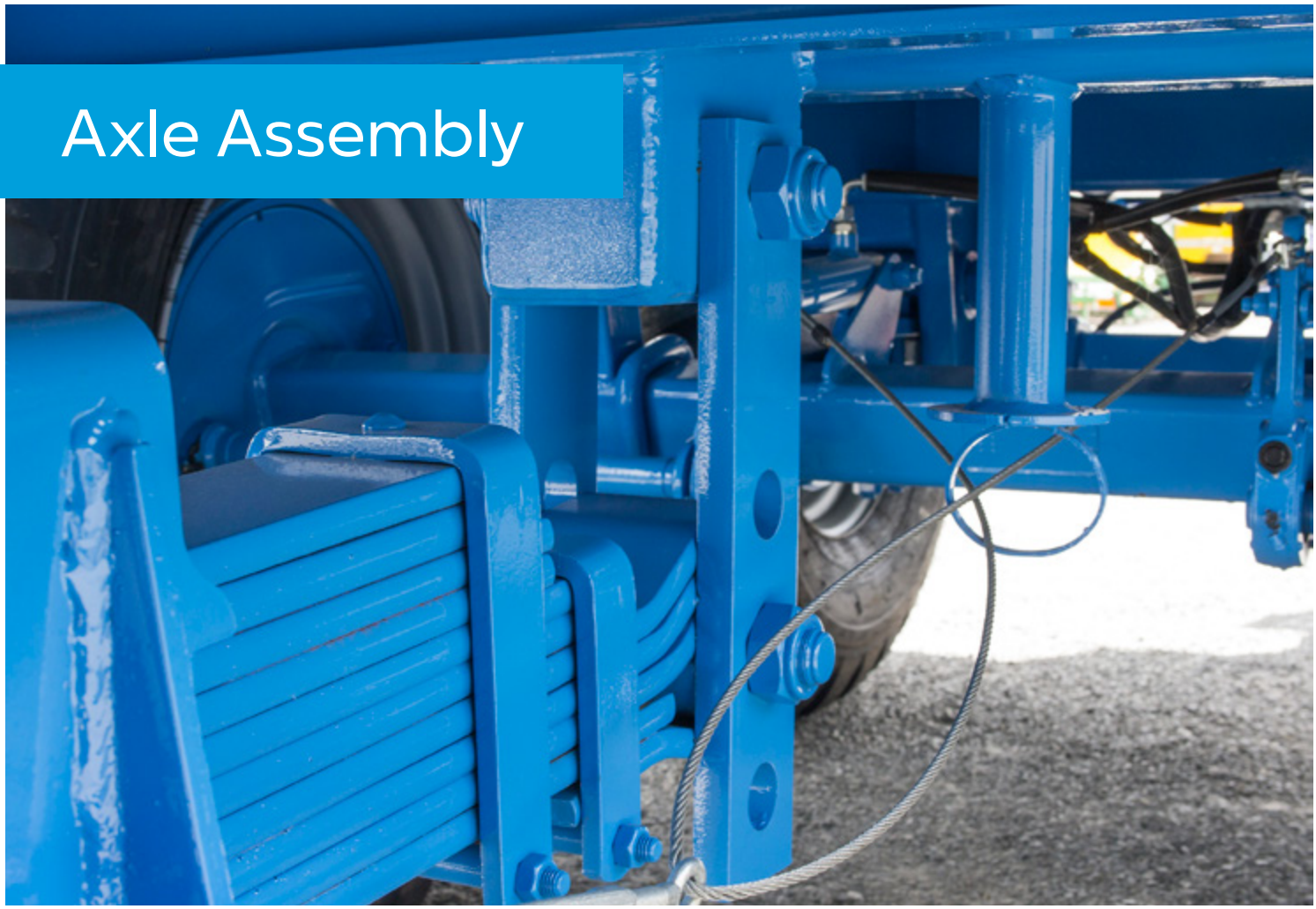


Garda pumps are dual pumps incorporating both a vacuum pump and a centrifugal pump for spreading when higher pressure is required.

These pumps are ideal in situations when you have an additional applicator such as the Nevada RainGun. It's easy to start spreading with a simple switch from the slurry tanker's standard heavy-duty vacuum pump to the Garda pump.

At Nevada, we've made this process easy with the touch of a button, thanks to our HydraHub electro-hydraulic control system.

Axle Assembly



Leaf Spring Suspension

Nevada Single Axle Slurry Tankers with Auto-fill and Tandem Axle Slurry Tankers are built with a drawbar incorporating multi-leaf spring suspension to absorb shock loading (pictured above), protecting the tractor and driver from stress and fatigue. Tandem Axle's also include bogie leaf springs on the axles (pictured below), selected for their improved stability and reliability. Allowing a faster smoother ride and reduced track damage.

On Nevada triple axle slurry tankers up to 25,000L, leaf suspension on all axles (pictured left) provides a tough yet simple system that improves comfort and reduces stress on both the machine and tractor—especially when working over rolling or uneven ground. To back that up, hydraulic drawbar suspension also comes standard on every Nevada triple axle tanker, giving you a smoother, more reliable ride.

For the biggest machines, hydraulic suspension comes standard on all slurry tankers 30,800L and above, giving you maximum stability and comfort when carrying heavy loads.

Hydraulic Braking on Every Wheel

Nevada slurry tankers include large hydraulic braking on every wheel to ensure a safe and reliable operation, as well as a manual park brake.

Steering

Tandem and Triple axle tankers are built with floating steering with hyrdraulic lockout, providing easy turning for manouverability around the farm, espeically through tight gateways as well as less ground damage.

Large flotation tyres

For safety on rolling terrain and reduced soil compaction. Longer-lasting, high resistance to puncture. Different sizes available on request

Model	STANDARD	OPTIONS
6,000 & 8,000L	560/60 R 22.5	650/50 R 26.5
10,000L Single	600/50 R 26.5	710/50R 26.5
Tandem Axle	560/60 R 22.5	600/55 R 26.5 650/50 R 26.5
Triple Axle	560/60 R 22.5	More options available

Alternative Options

Hydraulic & Pneumatic Suspension

Hydraulic and pneumatic suspension is available on request for tandem axle models.

Lift Axle

Triple axle models also have the option of a hydraulic lift axle which raises when the tanker is empty. Or when extra drawbar weight is required. Only available with hydraulic or pneumatic suspension.

Forced Steering

Contractors doing a lot of work moving around tight corners, or having to back up around tight corners opt for forced steering, where steering is hydraulically driven from the tractor.

DRAG HOSE SYSTEMS

With custom options to fit your specific needs and the ability to apply 1,500,000+ litres per day with ease, it's time to upgrade your effluent spreading game.

Nevada's drag hose or umbilical systems allow you to spread those effluent nutrients more effectively, ensuring more nutrients reach the ground and reducing nitrogen being released into the atmosphere.

Economical and efficient, our drag hose systems will have you spreading further, fully utilising the nutritional value of your effluent and reducing storage levels in no time.

Everything you need for the

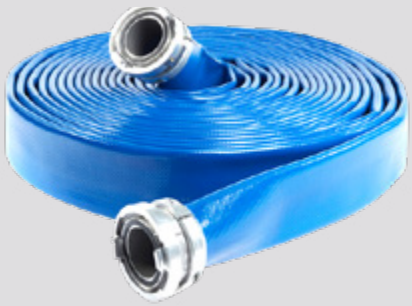
ULTIMATE DRAG HOSE SYSTEM

Effluent Pump

Choose from a range of top performing, high capacity PTO or diesel powered effluent pumps to suit your pumping requirements. Pumps suitable for small farms through to large farm and contractors!
See page 50-51.

Hose Reelers

With a detachable spool/bobbbin system, the Nevada MR1000 Hose Reeler lets one frame run multiple spools for maximum flexibility - delivering a massive hose capacity from a smart, compact setup.
See page 29.



Layflat Drag Hose

Top quality PU and rubber lay flat hoses are puncture resistant and stand up to rugged farm use. See page 26.

Spreading Applicators

Choose from a Nevada 3 point linkage RainWave™ applicator, or Trailing Shoe to suit your needs. See pages 27-28.

Optional Extra

Remote Valve Switch

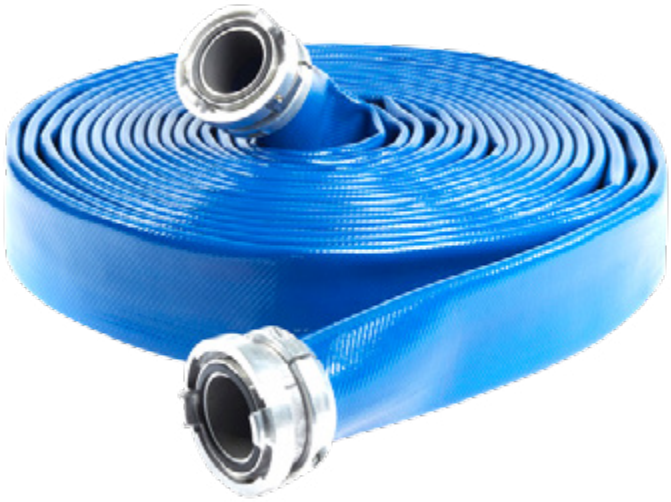
The remote valve switch lets you switch between one irrigation line to another (or bypass back to the pond) without turning off the pump.

Layflat Drag Hose

Durable, Flexible, and Built to Perform. Engineered in Germany for tough agricultural applications, the Oroflex Drag Hose is designed for reliability and longevity.

Commonly used in dairy effluent drag hose systems, it offers exceptional resistance to abrasion, chemicals, and hydrocarbons. With high torsional strength, it ensures smooth handling and durability in demanding conditions.

Ideal for efficient slurry transfer, Oroflex provides the strength and flexibility needed for modern dairy farming operations.



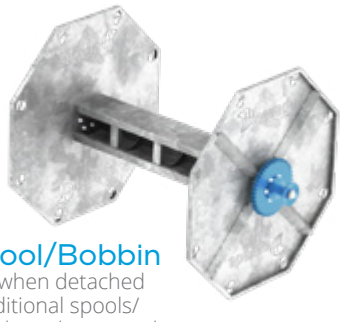
Features

- 102, 127 and 152mm diameter
- 2.30 - 4.00mm wall thickness
- 5yr manufacturers warranty
- Standard hose length: 200m

Specifications

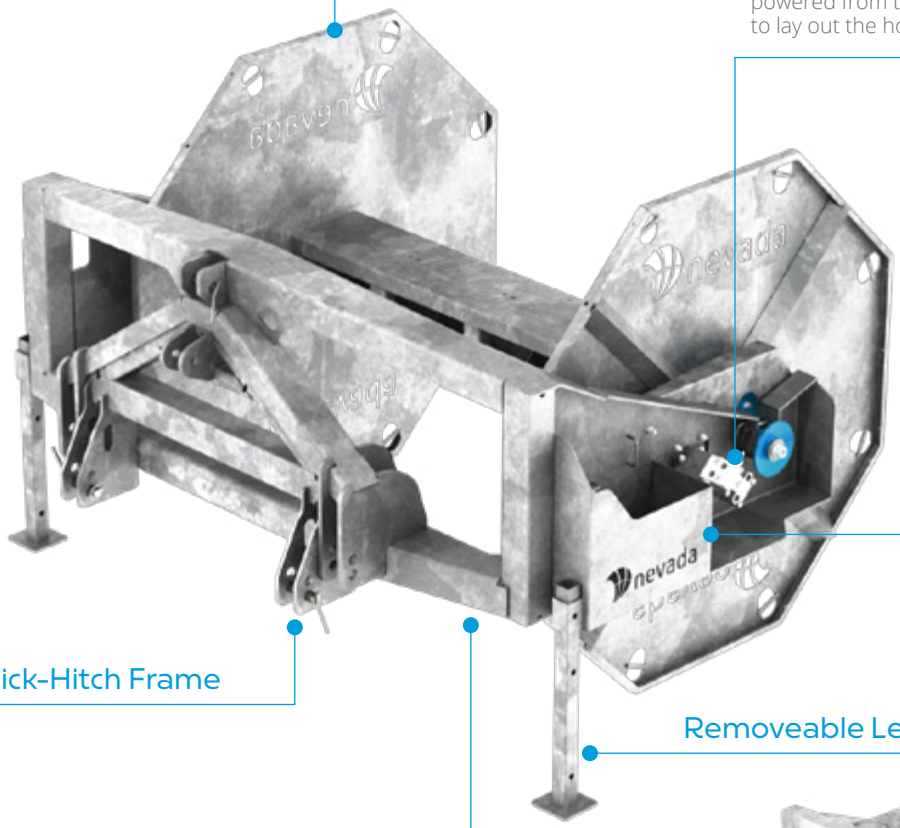
	RUBBER HOSE				PU HOSE		
	HOSHO130	HOSHO226	HOSHO229	HOSHO221	HOSHO208	HOSHO199	HOSHO223
Inside Diameter	3" (76mm)	4"(102mm)	5"(127mm)	6"(152mm)	4" (102mm)	5" (127mm)	6" (152mm)
Wall Thickness	2.30mm	3.10mm	3.20mm	4.00mm	3.5mm	3.7mm	3.8mm
Working Pressure	175psi	304psi	304psi	290psi	245psi	203psi	175psi
Burst Pressure	460psi	754psi	609psi	725psi	609psi	507psi	435psi
Tensile Strength	5,3000kg	13,000kg	15,500kg	23,400kg	13,100kg	18,000kg	25,000kg
Nominal Weight	0.68kg/m	1.25kg/m	1.70kg/m	2.50kg/m	1.3kg/m	1.7kg/m	2.05kg/m

Hose Reeler



Octagonal Spool/Bobbin
prevents 'run-away' when detached from the frame. (additional spools/ bobbins can be purchased separately for multiple hose capacity)

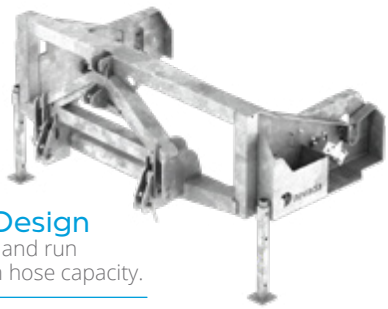
Twin H/D Hydraulic Motors
powered from the tractor, allowing you to lay out the hose with no over-run



Built-In Toolboxes
Convenient boxes on either side for your tools, couplings and reducers.

Quick-Hitch Frame

Removeable Legs



Detachable Frame Design
allows one frame to hook up and run multiple spools for maximum hose capacity.

Nevada MR1000 Hose Reeler

With a detachable spool/bobbbin system, this reeler lets one frame run multiple spools for maximum flexibility - delivering a massive hose capacity from a smart, compact setup.

The octagonal spool/bobbin design also prevents 'run-away' when detached from the frame. Twin H/D hydraulic motors, powered from the tractor, rotate the spools, giving a positive and controlled recovery, allowing you to lay out the hose with no over-run. You will find all the tools you need, kept securely in convenient toolboxes on each side of the machine, as well as couplings and reducers.

Features

- Random wrap
- Twin H/D hydraulic drive
- Removable spool/bobbin (additional spools/bobbins can be purchased separately for multiple hose sizes)
- Ideal for medium-large size systems
- Front & Rear mount
- Inc. quick-hitch frame

Specifications

Layflat Hose Capacity	4" - 1000m	5" - 600m	6" - 600m
Min Tractor Requirements	100hp		

RainWave™ 3PL Applicator

The Nevada RainWave™ applicator has been developed as a good overall effluent spreading solution, providing speed, control, an even spread pattern, wide spreading distribution and producing larger effluent droplets that minimise wind drift and volitisation.

The 3 point linkage system is also very light on the tractor, making it an excellent choice over softer soils. If you're looking to empty and spread your effluent pond fast with a low application depth, the RainWave™ applicator is your best bet with the ability to spread over 1,500,000L in one day.

The simplicity of the RainWave™ makes it a very economical option, and the compact design means there's no issues with getting through farm gates or spreading over hilly or uneven ground. They're also really easy to operate.

Benefits Of A RainWave™

- Easy for staff to operate
- Wide spread
- Large droplet size, so very minimal wind drift
- Better nutrient use
- Gentle low-pressure rain pattern
- Better for the environment
- Less pasture damage
- Low application depth (1-20mm)
- Safe tractor speeds (less than 7km/h)
- High volume (3,200L/min)
- Very even spread pattern
- Low maintenance
- Handles thick slurry (up to 20% solids)

Specifications

Application width	15m
Application depth	1-20mm
Volume	3,200L/min

Trailing Shoe

Effluent trailing shoes provide ultimate accuracy in proof-of-placement.

As well as greatly reducing odour and evaporation. There are many benefits when using a trailing shoe – with effluent being placed directly to the soil (base of the plant) there is virtually no volitisation, or wind drift, and no crop spoiling.

The Nevada Trailing Shoe assemblies come in four widths; 6.0m, 7.5m, 9.0m, 10.5m, and 12.0m. These trailing shoes are for tractor driven spreading.

Features

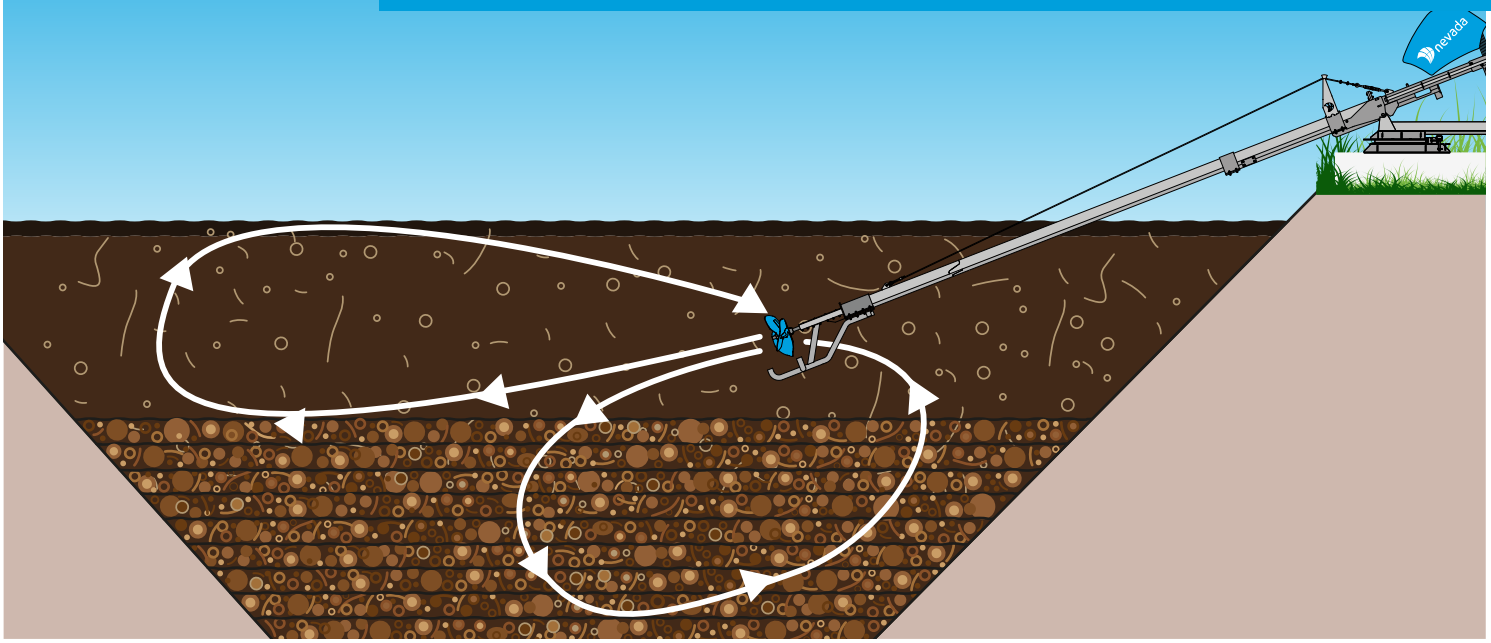
- OPTICUT PROFI
- Rear lights
- Hydraulic clamping
- Manual width adjustment (with ball valve)
- Manual tramline shut-off (with ball valve)
- Electric control panel SMART CONTROLLER for hydraulic control

Specifications

Models	6.0	7.5	9.0	10.5	12.0
Working width	6m	7.5m	9m	10.5m	12m
Number of distribution hoses	24 or 30	24 or 30	30 or 36	35 or 42	40
Diameter of hoses	38mm	38mm	38mm	38mm	38mm
Number of cutting heads	1	1	1	1	1
System opening / closing time	12s/16s	12s/16s	12s/16s	17s/19s	17s/19s
System safety clamping	hydraulic	hydraulic	hydraulic	hydraulic	hydraulic
Weight	520kg	600kg	680kg	730kg	780kg

NEVADA STIRRERS

What's Happening Beneath the Surface of the Pond?



Effluent that flows into a pond naturally has heavy solids in it that can often include sand, stones, grit, and other unwanted matter within the manure.

The process of filtering out the excess in heavy solids as much as possible is an important part of maintaining effluent storage facilities and keeping your pond at maximum capacity. Regardless of how much is filtered through stone or sand traps that are installed, a certain amount of heavy solids still get through to the pond.

Beneath The Surface

Every dairy farm requires a minimum amount of effluent storage, which can be compromised without the right equipment in place. Crust can form on the surface which is visible on the pond, but what is more important is what is happening beneath the surface. If heavy solids are not all brought up into suspension regularly, it can create build up that compacts on itself. This results in diminished storage capacity and creates a difficult task in the future to get all the solids back up into suspension again.

The solution to managing more capacity is to stir thoroughly and frequently with an effluent pond stirrer. Without stirring, the effluent falls out of suspension and drops to the bottom of the pond, tank, or effluent bladder. Stirring adequately and frequently maintains the storage capacity that dairy farms are required to have in order to remain compliant.

Not only does it benefit operations in maintaining compliance, it also lessens the wear and tear on effluent pumps. With better effluent pump efficiency, the solids are evenly mixed with liquids and can then be irrigated out to paddocks with high quality nutrients to condition the soil for stronger yields.

For instance, if you are spreading settled sediment, you are losing out on a lot of trace elements. Settled effluent will only have 5-10% of the phosphorus, 50% of the nitrogen and 80% of the potassium compared to a well mixed solution. A lot of the valuable trace elements are left in the pond. A pond stirrer will fix all that.

How do I adequately stir the pond?

Nevada Typhoon™ propeller creates a vortex circular motion that propels the solids into suspension and mixes it in with the liquids to create a richer mix for spreading. It also is beneficial to stir thoroughly for lowering the need and costs of synthetic fertilizers. By utilising effluent that is already available as a resource on the farm, you can lower overall costs and ensure operations are running more efficiently.

A Nevada TurboStir™ 6000 turned this

Into this in only 1 hour

Electric Stirrers

Efficient, safe and reliable, a Nevada electric pond stirrer is extremely powerful, giving you the ultimate mixing performance.

These stirrers are shore-mounted, with a horizontal thrust for efficient mixing, along with easy access for safe on-shore maintenance. There are seven electric stirrers available to suit most dairy effluent ponds, with power output from 10-25hp.

Nevada EL7 Electric Stirrers

The 7m EL range of stirrers is ideal for clay lined and shallow ponds.

With power output ranging from 10-20HP, even the smallest model will get an entire average sized pond swirling.

With a long 7.0m boom for excellent pond coverage, the EL710 is powerful enough to suit medium size effluent ponds. Easy angle adjustment from the shore-mounted base (Up and Down adjustment) and simple to pivot (Side to Side rotation) for optimum coverage. Reinforced slide bearing keeps shaft turning in tough mixing conditions for a rapid and extremely efficient mixing performance.

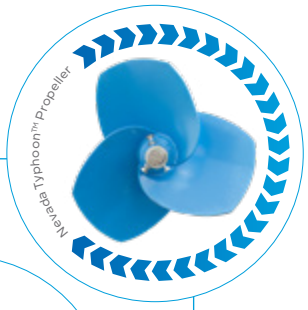
Specifications

Model	EL710	EL715	EL720
Power	10hp	15hp	20hp
Length	7m	7m	7m
Galvanised	Yes	Yes	Yes
Bearings	Enduro Block	Enduro Block	Enduro Block
Propellor	Typhoon™ 440	Typhoon™ 500	Typhoon™ 500S

2 Year Warranty

Trusted for Safety & Reliability®

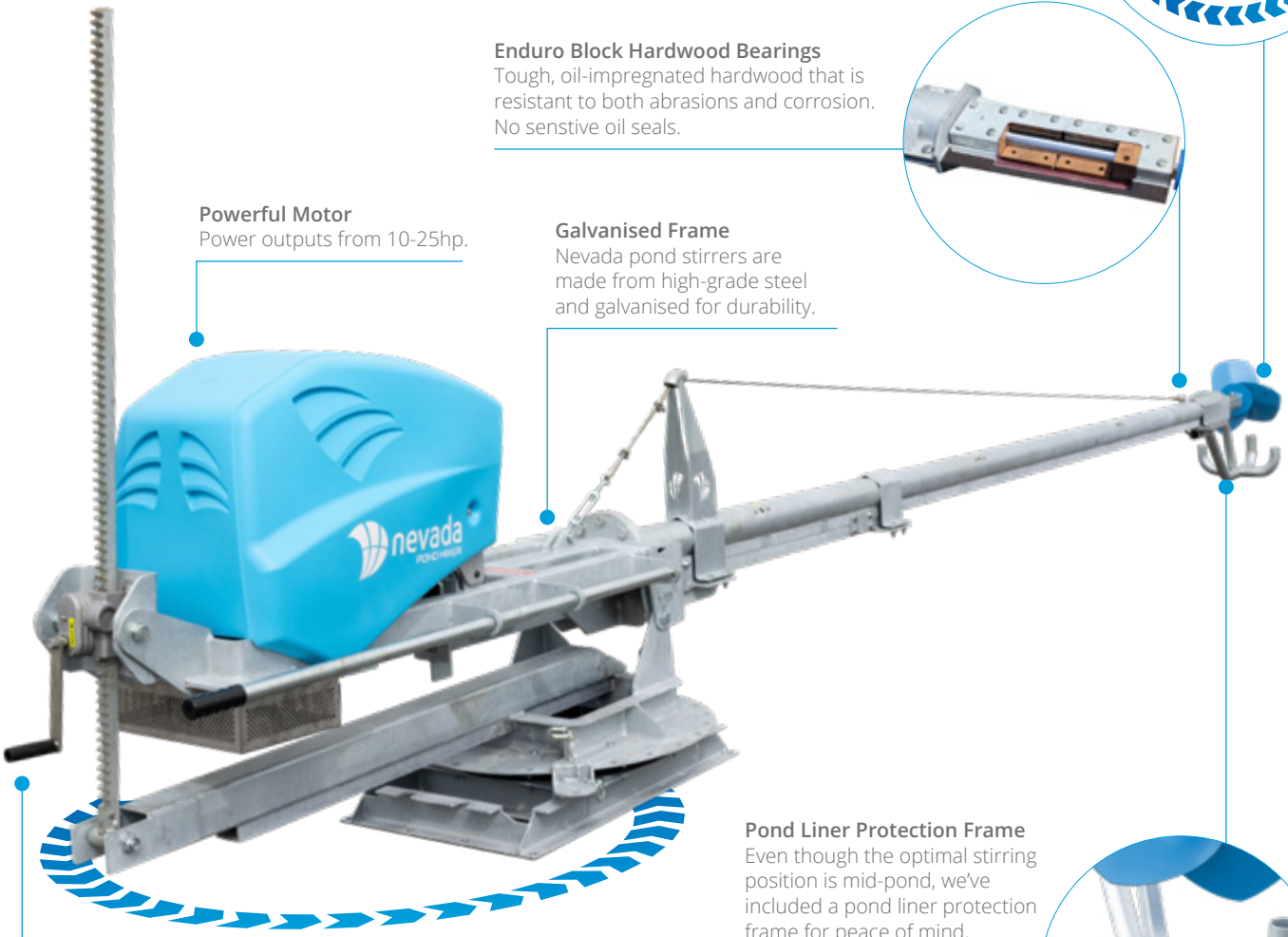
Nevada Typhoon™ 3 Blade Propeller
Acheives a much higher mixing performance than pumps or submerged motors with the same use of energy.



Enduro Block Hardwood Bearings
Tough, oil-impregnated hardwood that is resistant to both abrasions and corrosion. No senstive oil seals.

Powerful Motor
Power outputs from 10-25hp.

Galvanised Frame
Nevada pond stirrers are made from high-grade steel and galvanised for durability.



Pond Liner Protection Frame
Even though the optimal stirring position is mid-pond, we've included a pond liner protection frame for peace of mind, that also doubles as a handy resting point when onshore.

Easy Angle and Height Adjustment
With 360° rotation to ensure optimum placement in the pond, along with full rotation to shore for maintenance.

Nevada EL9 Electric Stirrers

The 9m EL range of stirrers have an ultra heavy-duty slew ring base and are ideal for big ponds and gentle slopes.

The base allows for easy angle adjustment and 360° rotation to ensure optimum placement in the pond, and all maintenance can be safely carried out on shore.

The 9m range is powerful enough to handle larger ponds upto 10,000,000L.

Specifications

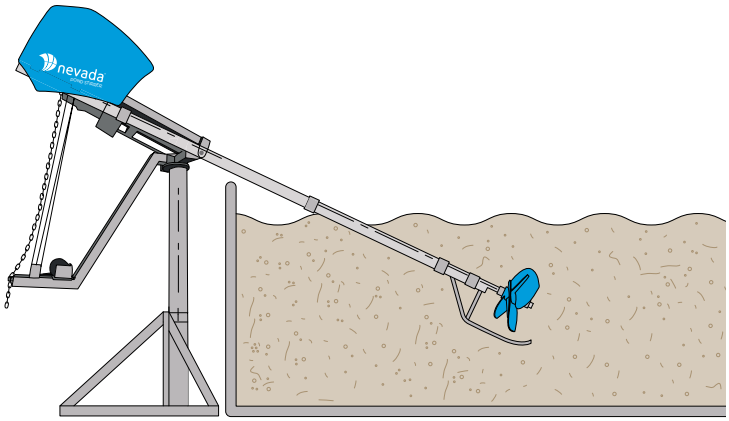
Model	EL910	EL915	EL920	EL925
Power	10hp	15hp	20hp	25hp
Length	9m	9m	9m	9m
Galvanised	Yes	Yes	Yes	Yes
Bearings	Enduro Block	Enduro Block	Enduro Block	Enduro Block
Propellor	Typhoon™ 440	Typhoon™ 500	Typhoon™ 500S	Typhoon™ 550

Tank Stirrers

Keep your above ground tanks free of sludge build up and crusting.
These electric stirrers can be automated, making your job even easier.

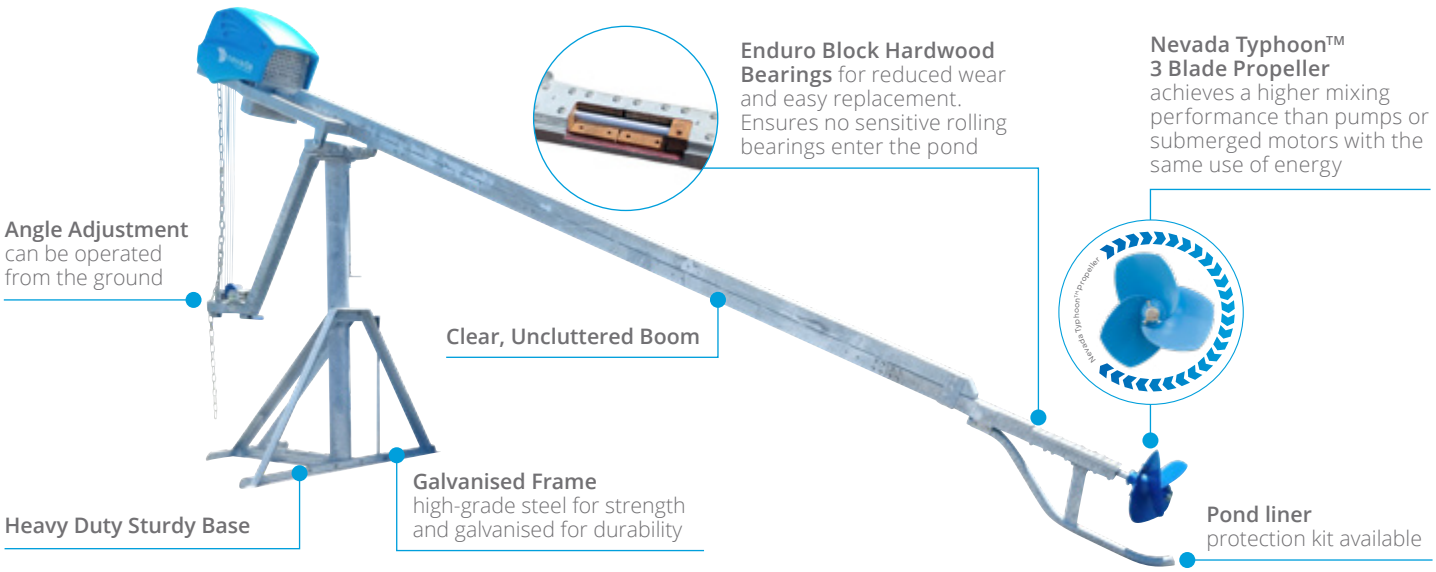
A more thorough stir is achieved because the stirrer can be positioned far enough into the tank and angled for the best flow. This allows the stirrer to easily break up crust from the top (should you have any) as well as bringing sediment from the bottom into rotation.

There are two options for electric over-the-wall slurry stirrers. Both options utilise Nevada's top performing electric stirrers with the ability to reach over the wall of your tank.



TankStir 710

The latest method for over-the-wall electric stirring is having an electric stirrer with an extended mast that reaches over the wall of the tank. This is more cost effective than a pedestal while also being more convenient as it is operated from the ground.



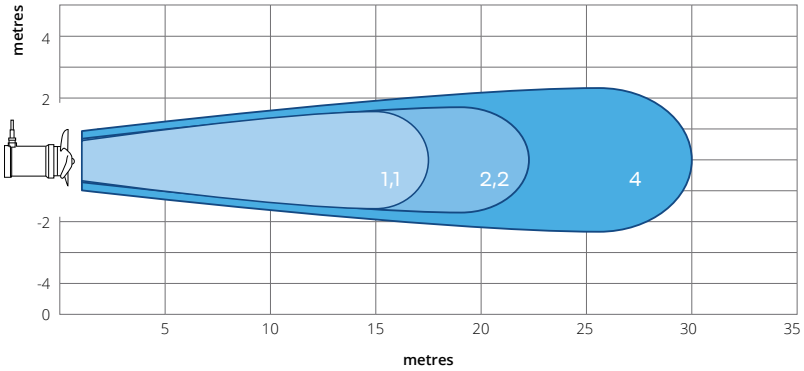
Pedestal Mounted Over-Wall Stirrer

If you want to stick with what you know, the pedestal is the more traditional method for electric stirring over the wall of an above ground tank. The electric stirrer is mounted on a pedestal, so you can see what's going and admire your work. You can still automate the process and reap the benefits of well-stirred, nutrient rich effluent. (Pictured above)

Submersible Mixers

Mixes the solids together with liquids so an even consistency is sucked through your pump.

- Prevents crusting
- Prevents sludge build-up
- Mounting system custom made for your tank/sump
- Thermal protection
- 10 metres of electrical cable
- Larger sizes available



Performance Diagram for 1.1-4Kw Submersible Mixers

KING
of Pond Stirrers

Nevada's tractor-mounted PTO pond stirrers are the best stirrers money can buy. They offer great value to you by maintaining the capacity of your pond, so you have, in effect, more effluent to spread, and they also improve the quality of effluent, so your effluent is dense with nutrients.

This high performance and efficiency has a lot to do with our Typhoon™ propellers. The angle, size and placement of the blades have been carefully designed and calculated to maximise efficiency. The blades can move up to 10,000,000 litres using less energy and the nutrients within the slurry are evenly distributed throughout the mixture, creating better fert for your soil.

As they are shore-based with a tractor-mount, they are much easier to move and maintain, making them safer and more efficient. A lot of farm debris gets washed into the effluent, which can be very hard on equipment. That's why we opted for our oil impregnanted Enduro Block Hardwood Bearings, which are self-lubricating, abrasive and corrosion-resistant.

2 Year Warranty

The KING of Pond Stirrers, ideal for contractors and large ponds

Model	TurboStir™ 7000
Length	7.8m
Adjust	Hydraulic
Galvanised	Yes
Bearings	Enduro Block
Propeller	Typhoon™ 650
Min Tractor Requirements	140hp

Enduro Block Hardwood Bearings
Tough, oil-impregnated hardwood that is resistant to both abrasions and corrosion.

Nevada Typhoon™ 3 Blade Propeller
Acheives a much higher mixing performance than pumps or submerged motors with the same use of energy.

Pond Liner Protection Frame
Even though the optimal stirring position is mid-pond, we've included a pond liner protection frame for peace of mind, that also doubles as a handy resting point when onshore.

Ideal for medium to large ponds

Model	TurboStir™ 6000
Length	6.8m
Adjust	Hydraulic
Galvanised	Yes
Bearings	Enduro Block
Propeller	Typhoon™ 600
Min Tractor Requirements	90hp

Ideal for small to medium ponds

Model	TurboStir™ 5000
Length	5.8m
Adjust	Hydraulic
Galvanised	Yes
Bearings	Enduro Block
Propeller	Typhoon™ 500
Min Tractor Requirements	75hp

Other Configurations

Hydraulic drive

PTO Stirrers can be adapted to attach to a front end loader, telehandler or digger boom for versatility in different effluent storage situations. By eliminating the driveshaft, it allows the PTO to go steeper, ideal for if you need to reach up and over a tank, or other hard to reach situations.

Stirrer Extension 2000 and 4000

Got a large pond, or just want to reach further?

The Stirrer Extension 2000 and 4000 provide an extra pivot point for accessing some of the more difficult or larger ponds to provide superior mixing.

The most common uses are for higher wall ponds or above ground ponds that need a longer reach.

- Easily attached and removed as needed
- Length - 2m, 4m

Optional Extras

Wheel Kit

Optional wheel kit for added manoeuverability.

IRRIGATORS

Fertigator™

The Fertigator™ is a portable effluent irrigation solution, manufactured in New Zealand especially for local farming conditions.

Spreading effluent straight from the pond or sump, you can say goodbye to common irrigator issues like run-off, ponding, and groundwater contamination. Simply connect with your pump and drag hose, and away you go!

Hook up the optional tow kit to your farm bike or tractor and the Fertigators™ are easily movable, making them perfect for any size farm. With a wide 700mm diameter base for stability, the Fertigator™ will glide over both flat land and steeper areas without toppling over, and will always maintain consistent spread.

Features

- Low application rate.
- 10mm, 12mm, or 14mm nozzles minimise blockages.
- Gun constructed from metal, not plastic.
- 50m of drag hose between units (not included).
- Up to 1500m² coverage (at 45psi).
- Common 2 inch camlock fittings.
- Can be used with both small and large pumps.
- Wide 700mm diameter base for stability.
- Optional tow kit available (for towing with the farm bike, pictured below)

Specifications

Base Width	700mm Ø
Spreading Width	25-43m
Min Pressure	2bar
Max Pressure	4.9bar
Max Draghose	63mm od
Flow Rate L/hr	6,600 - 18,500 (per Fertigator™)

Nevada Fertigators™ suit both small and large pumps, and can be used in conjunction with a traveling irrigator if required. With 10mm, 12mm, or 14mm nozzles, blockages are minimised, allowing you to get the job done more efficiently. What's more, the gun is made from metal, not plastic, for long term reliability.

The following tables provide a guide to Fertigator™ application rates[1].

Nozzle (mm)	Pressure (psi)	Flowrate (L/min)	Wetting Ø (m)	Coverage (m^2)
14mm	25	156	33.4	876
	30	171	36.5	1046
	35	180	39.3	1213
	40	184	41.8	1372
	45	188	43.9	1513
12mm	25	108	31.6	784
	30	120	34.6	940
	35	130	37.2	1086
	40	138	39.5	1225
	45	142	41.4	1346
10mm	25	75	28.0	615
	30	84	30.1	711
	35	91	32.0	804
	40	96	33.7	892
	45	100	35.2	973

[1] As tested by an independent dairy effluent consultant. Actual rates may vary, depending on the system and conditions.

Stationary
Skid-Mounted

Nevada's simple skid-mounted Rain Gun is a popular choice when needing to pump large volumes quickly, handling up to 165,000L /hr.

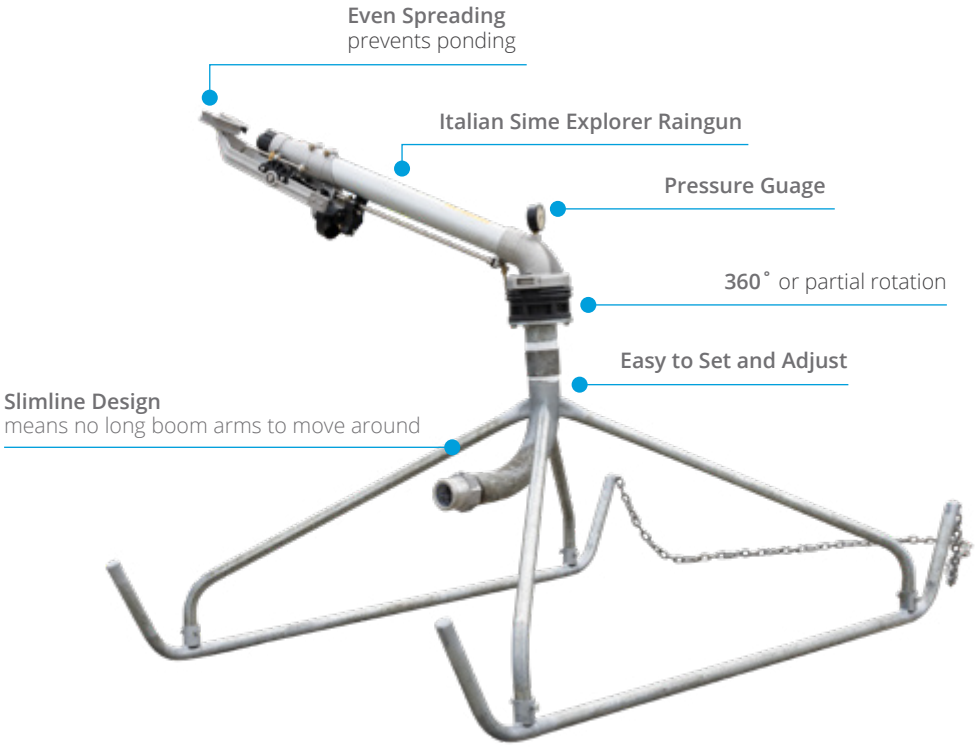
Ideal for poor draining soils or sloping land, this stationary rain gun can provide low application depths and rates to reduce the risk of run-off and ponding.

Features

- Ability to set partial arches
- Even spreading prevents ponding
- Easy to set and adjust
- Slimline design means no long boom arms to move around
- 360˚ or partial rotation
- Nozzle sizes: 32, 34, 36, 38 and 40mm

Specifications

Spreading Width	40-78m
Min Pressure	3bar
Max Pressure	7.9bar
Max Draghose	76-150mm od
Flow Rate L/hr	30,000 - 165,000



Travelling
Greenback Magnum

The Nevada spec'd Magnum is a powerful irrigator, incorporating a traditional travelling irrigator, with added value of the powerful rain gun. This irrigator can also be used as a stationary rain gun.

With a wetted width more than twice as wide as a traditional travelling irrigator, the Magnum offers application rates and depths competitive with sprinkler systems.

Overview

- Can achieve average application rates of 10.0mm/hr and application depths as low as 3mm/pass
- Labour requirement significantly reduced
- Capable of operating at pressures and flows provided by traditional effluent pumps
- Option of 300 or 400m wire or synthetic rope
- Irrigate effluent in a single nutrient rich state without the need for expensive separation systems
- A simple concept that is proven to be robust and reliable
- Wetted widths up 70 metres, twice that of a standard traveling irrigator
- 5 travel speeds

Specifications

Travel Distance	250-400m
Spreading Width	30-80m
Boom Width	7.5m
Min Pressure	2bar
Max Pressure	6bar
Max Draghose	75mm od
Flow Rate L/hr	17,640 - 51,360

The following tables provide a guide to Magnum application rates[1].

Pressure at irrigator (PSI)	Irrigator Nozzle (mm)	Synkro Nozzle (mm)	Flow Irrigator (l/min)	Flow Synkro (l/min)	Flow Total (l/min)	Radius (m)	Avg App Rate (mm/hour)	App Depth (mm)
30	13 Hard	14	120	174	294	25.5	8.64	2.16
44	13 Hard	14	152	212	364	30	7.72	1.60
58	13 Hard	14	169	245	414	34	7.05	1.59
30	13 Hard	16	120	226	346	27	9.06	1.73
44	13 Hard	16	152	276	428	32	7.98	1.74
58	13 Hard	16	169	320	489	36	7.21	1.72
73	13 Hard	16	180	356	536	39	6.73	1.71
30	13 Hard	18	120	286	406	29	9.22	1.86
44	13 Hard	18	152	350	502	34	8.29	1.90
58	13 Hard	18	169	404	573	38	7.58	1.89
73	13 Hard	18	180	452	632	42	6.84	1.84
30	13 Hard	20	120	354	474	31	9.42	2.01
44	13 Hard	20	152	432	584	36	8.61	2.06
58	13 Hard	20	169	501	670	40	8.00	2.07
73	13 Hard	20	180	560	740	44	7.30	2.03
44	13 Hard	22	152	522	674	37	9.40	2.30
58	13 Hard	22	169	604	773	42.5	8.17	2.21
73	13 Hard	22	180	676	856	45	8.07	2.28

** These tests have been conducted using liquid from an effluent pond to give the most accurate results possible. This information should only be used as a guideline.*

Travelling
Greenback Spider

Increase your pasture production by capitalising on your farm's available resources with the Greenback Spider Travelling Irrigator.

A simple speed change procedure with a choice of five travel speeds allows greater control of effluent application depths thus allowing greater control of soil absorption rates optimising the benefits of the natural fertiliser.

Overview

- Proven design for reliability and simplicity
- Travel distance up to 400 metres
- Distribution uniformity of less than 1.25
- Maximum Volume 90 cubic metres per hour
- Differently angled arms allow for a more even spread pattern of between 30 to 50 metres depending on pump pressure
- Suitable for electric and PTO pumps
- Application depth from 5mm to 35mm
- 5 travel speeds

Specifications

Travel Distance	250-400m
Spreading Width	30-50m
Boom Width	9.0m
Min Pressure	2bar
Max Pressure	6bar
Max Draghose	75mm od
Flow Rate L/hr	19,625 - 30,120

Pressure at Irrigators with 13mm nozzles

		30psi		40psi		50psi	
		Average Application Depth	Travel Speed Metres/Minutes	Average Application Depth	Travel Speed Metres/Minutes	Average Application Depth	Travel Speed Metres/Minutes
Teeth taken per revolution	2	35	0.30m/min	36	0.40m/min	39	0.40m/min
	4	17	0.60m/min	18	0.75m/min	20	0.80m/min
	6	13	1.05m/min	14	1.10m/min	25	1.20m/min
	8	9	1.60m/min	9	1.65m/min	10	1.60m/min
	10	5	2.00m/min	5	2.10m/min	6	2.20m/min
		Approx. Flowrate: 19,625L/Hr Wetted Diameter: 34m		Approx. Flowrate: 25,755L/Hr Wetted Diameter: 38m		Approx. Flowrate: 30,120L/Hr Wetted Diameter: 42m	

** Results from testing with assistance from Massey University. These tests have been done using liquid from an effluent pond to give the most accurate results possible. This information should only be used as a guideline.*

Travelling
Spider Deluxe

The Spider Deluxe Travelling Irrigator is designed to operate with an effluent pump that suits most average sized farms.

The Deluxe is a proven travelling irrigator with 1000+ worldwide. Available in a choice of Stainless Steel or Galvanised wire rope and options in lengths of 250 or 300m.

Overview

- Simple design with rewind handle
- Double lipped neoprene seals
- Quick action pawls
- Hardened steel wire guide
- 4 travel speeds
- Total enclosed main bearings
- Stainless steel spindle
- Low centre of gravity
- Light but strong
- Completely galvanized
- Suitable for irrigation
- Towing hitch
- Operates with lay flat and hard hoses
- Progressive cam for low power requirement for travelling
- Supplied with the camlock fitting for supply hose

Specifications

Travel Distance	250-300m
Spreading Width	20-35m
Boom Width	6.0m
Min Pressure	2bar
Max Pressure	6bar
Max Draghose	63mm od
Flow Rate L/hr	15,750 - 25,755

		30psi		40psi		50psi	
		Average Application Depth	Travel Speed Metres/Minutes	Average Application Depth	Travel Speed Metres/Minutes	Average Application Depth	Travel Speed Metres/Minutes
Teeth taken per revolution	2	24	0.60m/min	24	0.53m/min	26	0.70m/min
	4	12	1.20m/min	12	1.10m/min	13	1.30m/min
	6	9	1.60m/min	8	1.80m/min	9	2.00m/min
	8	6	2.00m/min	5	2.15m/min	7	2.40m/min
		Approx. Flowrate: 15750L/Hr Wetted Diameter: 25m		Approx. Flowrate: 19625L/Hr Wetted Diameter: 28m		Approx. Flowrate: 25755L/Hr Wetted Diameter: 34m	

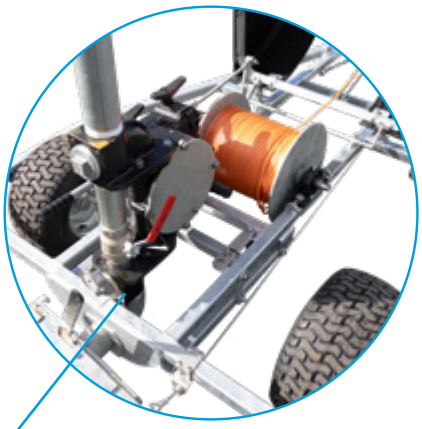
** Results from testing with assistance from Massey University. These tests have been done using liquid from an effluent pond to give the most accurate results possible. This information should only be used as a guideline.*

Travelling
King Cobra Rain Gun

Spread over large distances while achieving a low application depth.
The KIng Cobra allows targeted directional irrigation ideal for hillsides.

Features

- Low application depth, apply as low as 1.3mm
- 6 travel speeds - can also be used stationary
- Compact design
- Proven and unique drive unit
- Strong and rugged construction
- Wheels protected within the frame
- Fully galvanised frame
- Designed to handle most terrain
- Drum can take up to 400m of synthetic rope
- Wheels and drum have bearings, not nylon bushes
- Easy to tow with a standard tow ball coupling
- NZ designed and manufactured



Specifications

Travel Distance	400m
Spreading Width	23-48m
Min Pressure	2bar
Max Pressure	4.8bar
Max Draghose	75mm od
Flow Rate L/hr	9,000 - 44,000

Hydrants & Pipes

Nevada 3
Way Hydrant

Trust Nevada to keep things moving smoothly. Our hydrants are designed and engineered to withstand the rigours of tough dairy farm conditions.

Nevada Hydrants are solidly constructed and durable, providing virtually maintenance free ownership. Our versatile range of hydrants will complement any hydrant system to help ensure superior performance – together with the reliability that comes with all Nevada products.

Features

- Smooth bends
- Fully hot dip galvanised
- Robust construction
- Simple operation
- Range of sizes
- Suits Alkathene or PVC pipes
- Minimal pressure loss

Nevada End
of Line Hydrant

Nevada 2
Way Hydrant

S Hydrant

In-Line Efluent Filters

In-Line Effluent Filters are designed to eliminate debris that create blockages in irrigation nozzles.

Liquid flows through the screen inside the filters body. It is a simple procedure to open the top of the filter, remove the filtering screen, discard the trapped debris, replace the cleaned screen and reassemble the filter. This feature makes the cleaning process a simple and tidy operation.

Features

- 76mm hosetail / 64 BSP inlet and outlet
- Overcentre lid catches for quick opening
- Bleed valve for auto draining of filter
- NZ designed and manufactured
- Neat and tidy, simple to use
- Cost effective and built to last

	Galvanised Large	Galvanised Medium	Galvanised Small	Stainless Steel Small
Size	20x12mm	12x6mm	4mm	3mm
Hole Shape	Diamond	Diamond	Round	Round

Remote Valve Switch

The remote valve switch lets you switch between one irrigation line to another (or bypass back to the pond) without turning off the pump. This is made possible with use of a soft close switching system eliminating any potential pressure spikes.
It's so simple – just activate it from your mobile phone!

Features

- 75mm Y Valve
- Powered by a 12V battery
- Free app download for IOS and Android phones
- No internet connection required
- Remote valve switch can be controlled by multiple mobile devices
- Allows one person to operate a drag hose system
- New Zealand made

PUMPS

PTO Pumps

Perfect for contractors and farmers without electricity at the pump site, these effluent pumps are powered by your tractor for unbeatable mobility.

Ideal for high capacity effluent pumping or multiple pump sites, and equipped to handle even the toughest conditions, our PTO pumps are a must-have as a backup in case of power failures or pump breakdowns.

With maximum pumping performance, Nevada's range of high-capacity PTO pumps are made from hard-face lubricated mechanical steel.

Bauer Pump Set

With a massive capacity, the Bauer Magnum SX1000 pump set is perfect for contractors & large farms.

- Efficient and economical
- Low operating costs
- Easy maintenance
- Can handle up to 12% solids
- Standard 3 point linkage mounting or trailer mount

Model	SX1000
Flow	30-300m³/h
Pressure	40-130m(H)
Min Tractor Requirements	150hp

Rovatti PTO Pump Set

Rovatti tractor driven pumps are ideal for high capacity effluent pumping or multiple pump sites, and equipped to handle even the toughest conditions.

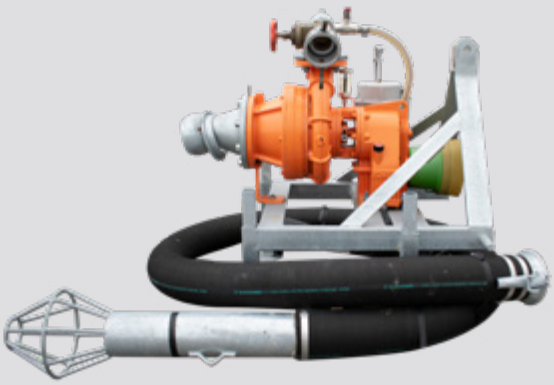
- 5m suction hose with strainer
- Drive shaft
- Hard-face lubricated mechanical steel
- Standard 3 point linkage mounting or trailer mount

Model	TL2-85
Flow	10-100m³/h
Pressure	50-75m(H)
Min Tractor Requirements	44hp

Model	TL3-80
Flow	20-150m³/h
Pressure	60-75m(H)
Min Tractor Requirements	65hp

Model	TL3K-80
Flow	20-150m³/h
Pressure	60-75m(H)
Min Tractor Requirements	80hp

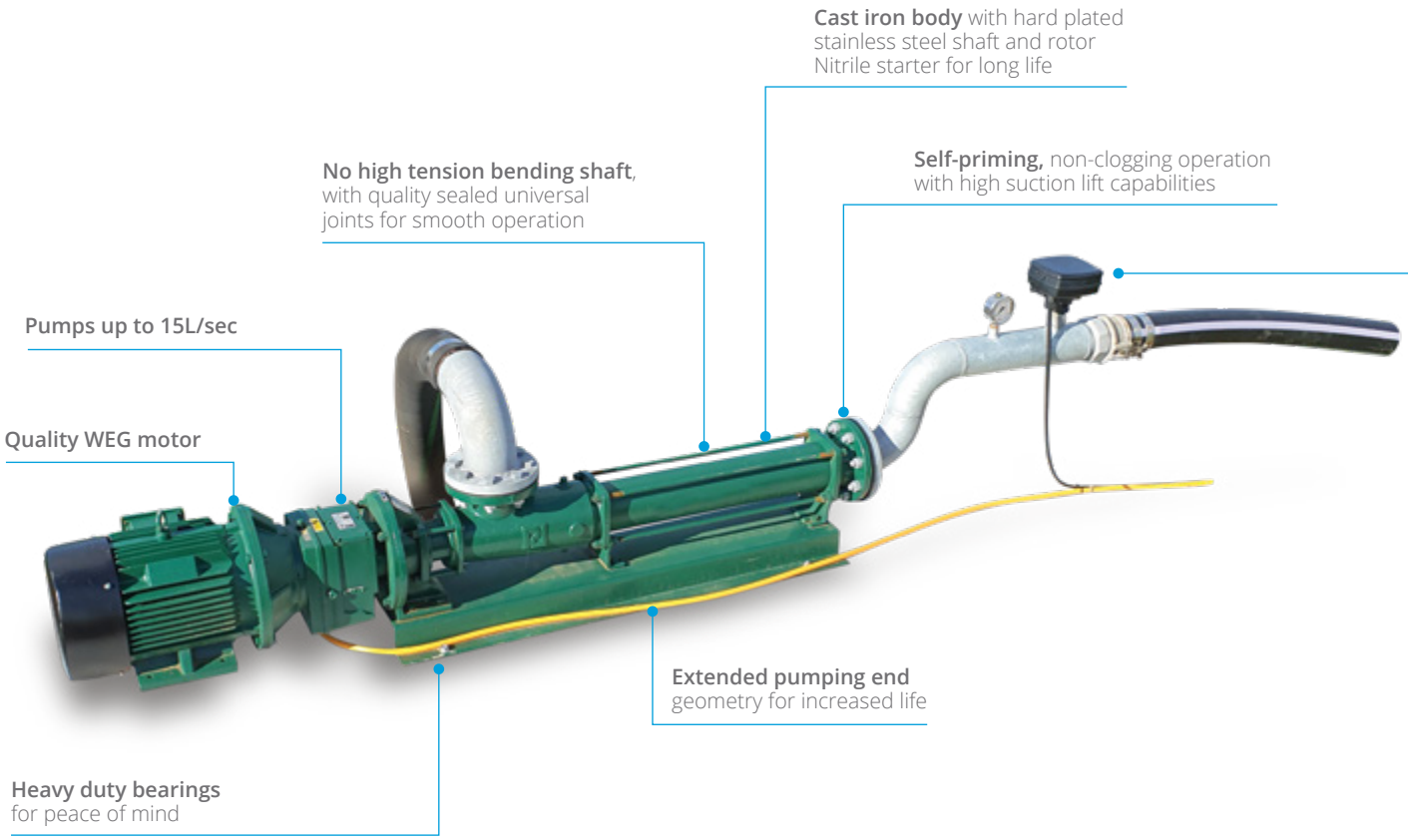
Model	TL4K-125
Flow	20-200m³/h
Pressure	90-110m(H)
Min Tractor Requirements	100hp



Progressive Cavity Pumps

Progressive cavity effluent pumps have a lot of advantages over floating pumps. For a start, they are a lot more efficient.

They are at the side of the pond, so access is much simpler and safer, which means servicing is easier. You also use less power to get the same output, which, over the year, is money in your pocket. On top of that, the pump gives you a constant volume. There are no surprises; it doesn't matter how far the effluent has to travel, you have a uniform flow.



Intelligent Pump Controller Equipped with advanced sensors, this controller swiftly detects and responds to blockages and run-dry events, shutting the pump down immediately and automatically, preventing damage to the pump.

Benefits

- Versatile and suitable for various effluent management systems
- High efficiency with low power requirements
- Even application with constant flow rate
- Long and reliable service thanks to robust construction and low running speed
- Low maintenance and reduced operating costs

Complete and ready to install, each unit includes:

- Galvanised head works
- Intelligent controller unit
- Suction hose and base mount ready to be mounted to concrete
- Outlet pipe connection

Specifications

Model	2060	1890	2690	21115	29100
Pressure	60m(H)	90m(H)	90m(H)	115m(H)	100m(H)
Flow	20m³/h	18m³/h	26m³/h	21m³/h	29m³/h
Power Requirements	5.5kW	7.5kW	11kW	11kW	15kW
Flange Size	80mm	100mm	100mm	100mm	125mm
Solids (Hard/Soft)	9.5/38	12/48	12/48	12/48	15/60

Diesel Powered Pumps

Trusted for Safety & Reliability®

Nevada's Diesel-Powered Effluent Pumps are the ultimate pumping solution. With a shredder on the intake port, these pumps easily handle tough effluent. The in-built engine protection, lockable canopy, LED lights, and working light make these pumps both safe and practical for any job.

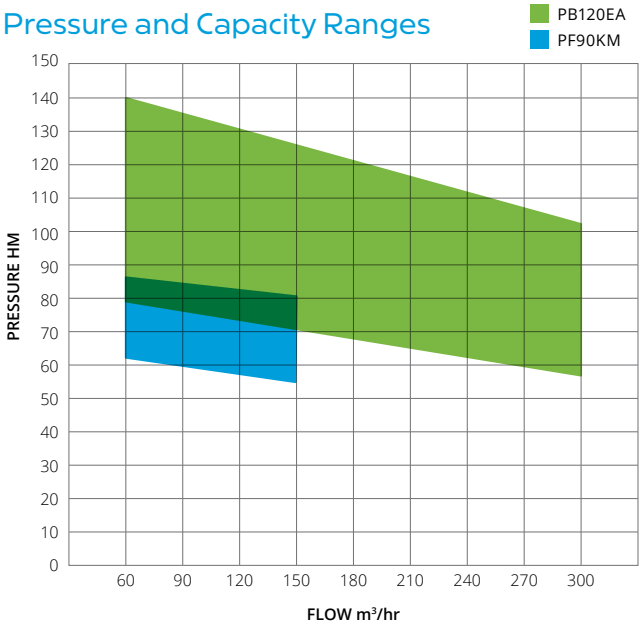
Perfect for contractors and large effluent irrigation systems, these high capacity effluent pumps offer a semi-permanent solution when there's no tractor or electricity available. And with a range of sizes and options, including auto-priming and remote control, you can find the perfect pump for your specific needs.

Get the job done with ease and confidence with Nevada's Diesel-Powered Effluent Pumps!

Optional Extras

- Auto priming (standard on PB120EA)
- Remote control via SMS or cell phone app
- Sound-proof canopy
- Lifting arm for suction line
- Chopper or non-chopper options
- Trailer or skid-mounted

Pressure and Capacity Ranges



Models	PB120EA
Power	170hp (127kW) John Deere or Iveco
Engine	6 Cylinder
Flow	Up to 300m³/hr
Pressure	Up to 130m(H)
Fuel Tank	600L

Models	PF90KM
Power	126hp (93kW) John Deere or Iveco
Engine	4 Cylinder
Flow	Up to 150m³/hr
Pressure	Up to 90m(H)
Fuel Tank	400L

**Alternative hp and design configurations available by request.*

Flood Pumps

Don't let flooding wash away your farming dreams!
Keep your crops and pasture high and dry with Nevada Flood Pumps!

Nevada flood pumps are the perfect solution for farmers and contractors who need fast and powerful water pumping capabilities. With easy deployment and no priming required, you'll be able to save pasture and crops in no time.
The hydraulic outlet adjustment and 360° swivel allow you to pump in any direction, giving you the flexibility you need to get the job done right. And, with their smart European design and fully galvanised construction, you can trust your Nevada flood pump will last for years to come, protecting your investment and your livelihood.

Features

- Pump 1-1,800 m³/h
- Easy to deploy - no priming required
- Hydraulic outlet adjustment for discharge
- 360° swivel to pump in any direction
- 3PL attachment

Order now and experience the peace of mind that comes with having the best flood pump available when you need it.

Model	350/SH	400/SH
Discharge Diameter	350mm	400mm
Length	5m	5m
Weight	640kg	700kg
Minimum hp Required	80hp	95hp
Volume	1,400,000L/h	1,800,000L/h

Optional Extras

- Fluming can be added to extend the pump over stock banks
- Telescopic discharge tube and hydraulic swivel available on indent
- Larger options available on indent, however we've found the 350/5H & 400/5H models effective in most instances in New Zealand

Electric Pumps
Alternative Options

Floating Centrifugal Pumps

These high pressure pumps will suit your irrigation needs. High flow and low pressure options provide effective solutions for effluent transfer and feeding solids separators.

Specifications

Flow	5m³/h-60m³/h
Pressure	45-65m(H)
Power requirements	7.5-18.6kW
Application	PondBoom™

Submersible Effluent Pumps

Great for transferring effluent and feeding solids separators. Submersible pumps are also an excellent option for pumping from small sumps like underpass storage.

Specifications

Flow	12m³/h-60m³/h
Pressure	8-16m(H)
Power requirements	0.75-3.7kW
Application	Tank mount sliding frame available

PondBoom™

Nevada 7m PondBoom™

If you've got a shallow pond or steep slopes the 7m PondBoom™ is for you!

The PB700 incorporates a sturdy winch so you'll have no need to walk out onto the pond for retrieval and maintenance.

This makes the PondBoom™ a much more efficient, and safer system than traditional pontoons.

Model	PB700
Length	7m
Hose	Flat Hose
Galvanised	Yes
Winch	Easy
Drums	Corrosive resistant polyethylene
Pump	Yardmaster or Doda floating centrifugal pump

Nevada 9m PondBoom™

Got big ponds or gentler slopes? The Nevada PB900 will get you where you need to be. It reaches further into the pond for a more effective pumping system.

The PB900 incorporates a sturdy winch so you'll have no need to walk out onto the pond for retrieval and maintenance.

This makes the PondBoom™ a much more efficient, and safer system than traditional pontoons.

Model	PB900
Length	9m
Hose	Flat Hose
Galvanised	Yes
Winch	Easy
Drums	Corrosive resistant polyethylene
Pump	Yardmaster or Doda floating centrifugal pump

How Do I Get the Most Value Out of My Dairy Effluent?

You have a valuable resource that your cows are producing every day. What strategies should you employ to get the most value out of Farm Dairy Effluent (FDE)? That's what we're going to look at in this article and suggest several efficient approaches to help you maximise the nutrients you put on your paddocks.

Apply Directly

Ideally you'd apply FDE as soon as possible after collection. That way, there is no nutrient loss from storage and your paddocks immediately reap all the benefits. As we all know, that's not always possible. That's why we'd recommend a good storage solution and stirrers to agitate the FDE and prevent solids building up before application.

Not all effluent spreaders are the same

When effluent sprays into the air through a fine nozzle sprayer or a pressurised sprayer such as a rain gun, a lot of your nutrients are lost in the process. That's why our Nevada RainWave™ is designed to spread effluent in heavy droplets that fall through the air without loss through volatisation. More nutrients reach the soil, feeding the micro organisms that enhance growth in your pasture. Applying a heavy drop with a Nevada RainWave™, trailing shoe, or disc injectors is by far the best method of applying effluent to land.

Improve soil across the whole farm

While councils and authorities are measuring for nitrogen during inspections, effluent actually has a high amount of potassium when compared to nitrogen levels. If you spread this over a larger area, you get the best use of nutrients. This will also ensure there is no potassium build up or issue with high levels of nitrogen in a smaller area.

FDE is packed with nutrients that can significantly improve your soil biology. In particular, lighter soils benefit from effluent collected from barns or feedpads, where higher amounts of solids are being applied.

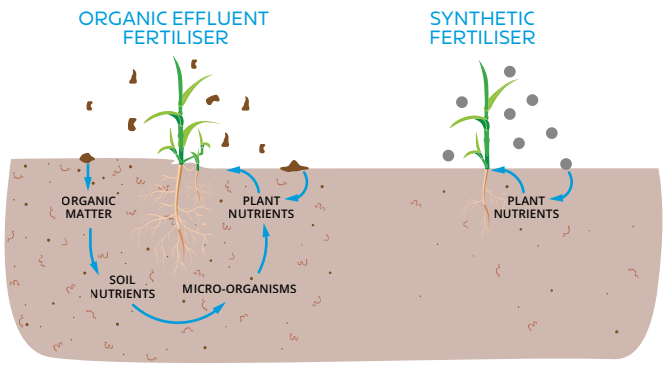
By spreading FDE across your entire farm, you can reduce or even eliminate the need for synthetic fertilisers.

Reduce the cost of processing

Another important aspect to consider is the cost in processing effluent. If you're using a solid separator to separate solids from the liquids, you are not adding any value to the effluent itself. You just end up with the same product, but with an added cost.

To get the most value out of the FDE, efficiency is the key. A Nevada RainWave™ provides an efficient way to spread effluent and can easily cope with solids without the hassle of a separator.

Our team knows this business inside out. If you have specific questions about your farm and the best approach for optimal nutrient application, give them a call.



EFFLUENT STORAGE

Bladder Tanks

Nevada effluent bladder tanks are the ideal solution for all kinds of effluent storage needs, with a whopping capacity of up to 2,000,000L. Our bladders are specifically developed for effluent storage. They provide protection from algae, fungal growth and UV deterioration.

Bladder tanks are quick and easy to install, with minimal earthworks required. Our bladders are low maintenance, foldable, transportable, and even earthquake resistant. They're incredibly safe too - with no risk of people falling in. And to top it off, we offer a 10-year warranty to ensure your complete peace of mind.

Being totally enclosed, there's no external contamination, oxidation, or evaporation - and with gas vents included, you'll experience limited odours too. Plus, Nevada bladders come equipped with multiple mixing valves. You can wave goodbye to crusting issues while increasing your nutrient value!

Don't settle for subpar storage solutions - invest in our Effluent Bladder Tanks today and experience a top-quality product that delivers on all fronts!

Material & Performance

Nevada's high performance effluent bladder tanks are made from the finest technical fabrics that boast exceptional puncture resistance. Advanced technology allows us to provide superior quality, without compromise. The assembly process involves high frequency welding, ensuring our tanks are certified to ISO 9001 standards, giving you peace of mind that they are built to last.

The bladder's material is fortified with cutting-edge technology that drastically reduces penetration into coated fabrics, preventing any capillarity ruptures from forming. Composite textile membranes are engineered with a PES woven reinforcement that delivers unparalleled dimensional stability and outstanding resistance. Several high-performance polymer layers are added, providing exceptional resistance to stretching and an incredibly low shrinkage rate.

Benefits

- No oxidation, external contamination or evaporation
- Limited smell as tanks are totally enclosed (gas vents included)
- No crusting on top of effluent
- Storage capacity up to 2,000,000L
- Multiple valves to assist with stirring
- Quick and easy to install
- Low maintenance
- Fold-able and transportable
- Earthquake resistant
- Safe - no risk of people falling in
- 10 year warranty from date of manufacture

Advantages

- Very high mechanical quality
- Better resistance to acidic and basic effluents
- Specific design for flexible tanks
- Hydrophobic coating for higher durability
- Outstanding weight/resistance compromise
- Anti-UV and anti-fungal formulation
- Resistance to high and low temperatures

Material Specifications

Coating type	PVC
Finish	Two-sided varnish
Material	PES
Thread	1100dtex
Weight	1300g/m^2, ISO 3801
Frame breaking strength (warp/weft)	4000/3800N/50mm , NF EN ISO 1421 or DIN 53354
Temperature resistance range	-30/+70°C , EN 1876-2

This technical information is for minimum medium values with a tolerance of +/- 10%.

More sizes available.

Model	300m^3	500m^3	800m^3	1000m^3	2000m^3
Dimension Empty	13.32x17.47m	16.28x22.94m	19.24x30.2m	20.72x34.70m	35.52x39.23m
Max Height	1.6m	1.6m	1.6m	1.6m	1.6m
DN80 Overflow	3	4	10	10	10
Side DN80 Mixing Valves	5	5	10	14	16

MULITPLE TANKS CAN BE PLACED INLINE FOR A LARGER STORAGE VOLUME

Concrete Sumps

Even though a sump has a much smaller volume, its still important to stir the effluent to minimise the build-up of solids. The ideal set-up for a concrete sump includes a Submersible Mixer for stirring, a Submersible Pump for transferring and PC Pump for irrigation. Save time by including a Sump Float Switch to automating the process.

Sump Float Switch

The Nevada Sump Float Switch operates by automatically starting and stopping an effluent pump based on predetermined levels in the sump. An indicator positioned at the top of the sump pump switch allows operators to monitor the effluent level from a distance.

- Easy to install and set, with start stop heights using adjustable stopper rings.
- Sized to suit upto a 2.5m sump depth.
- Long lasting galvanised frame with stainless steel rod and fixings.

Submersible Mixer

Nevada's range of submersible stirrers are perfect for when shore-mount isn't an option. They're ideal to mix solids and liquids together for an even consistency for your pump.

- Prevents crusting and sludge build-up
- Mounting system custom made for your tank/sump
- Thermal protection
- 10 metres of electrical cable
- Made in Italy
- Size range: 1.1- 5.5kw

Submersible Effluent Pumps

Great for transferring effluent and feeding solids separators. Submersible pumps are also an excellent option for pumping from small sumps like underpass storage.

Specifications

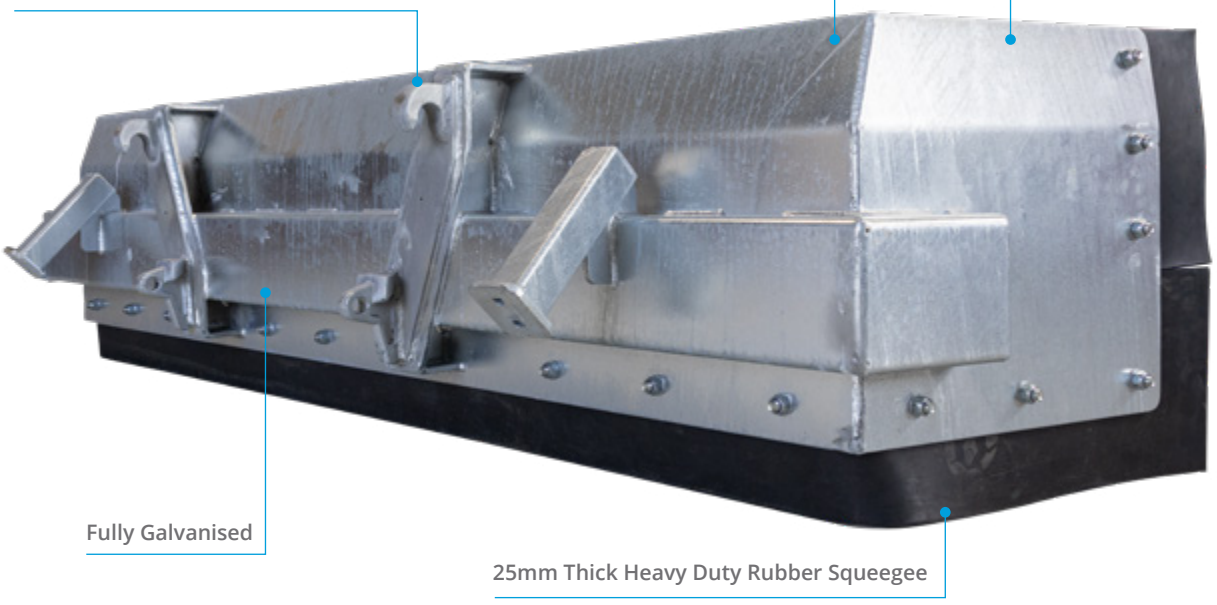
Flow	12-60m³/h
Pressure	8-16H(m)
Power requirements	0.75-3.7kW
Application	Tank mount sliding frame available

Yard Scraper

Maintaining a clean and healthy environment for your cows is paramount, and that's where our new Nevada Yard Scraper comes into play.

The Nevada Yard Scraper is designed to efficiently scrape and collect dairy effluent from areas where cows congregate, such as milking sheds and holding yards. The waste can be pushed into your pond or a collection point such as a sandtrap, preventing runoff and protecting local waterways. This not only helps in meeting stringent environmental regulations but also promotes better cow health by reducing the risk of disease enhancing overall farm hygiene.

Scraping width of 2800mm



Solid Separators

In certain situations, separating the solids from the liquid could be necessary.

Those situations could be so you can pump the liquid through a pivot irrigator or small pods. Another reason could be separating the solids so they can be spread onto a paddock prior to planting Maize.

Options

- Horizontal screw press (pictured above)
- Static screen (pictured right)

You wouldn't think twice about looking after the health of your cows. Well, your effluent pond is no different.

It is a living breathing thing, full of healthy bacteria that will breathe life into your soil. The healthier it is, the more nutrients it can transfer to your soil and that leads to better grass, and now we are back to your cows.

Just one weekly dose of PondBugs™ will keep your dairy effluent healthy, active and bursting with goodness. Good for your pond, good for your cows and good for your business.

Why PondBugs™?

- Helps reduce pond crusting
- Maintains pond capacity
- Improves the nutrient value of pond effluent
- Helps reduce odour
- Approved for use on organic farms
- Enables cows to graze pasture sooner
- Improves soil biological health
- Helps reduce greenhouse emissions
- Weekly Prescription 1x scoop per 50 cows.

ON FARM
SUCCESS STORIES

Before the slurry tanker, there was no effluent management

Effluent was just a bit of a headache for Scott Korpershoek until he had a lightbulb moment. He realised he could turn this daily problem into a daily resource.

Turning a problem into a solution

Scott and his family have a 290-hectare farm near Stanley in Tasmania. This is a mixed operation. They run 400 dairy cows, grow some potatoes, onions and crops to support the cows, and that keeps them pretty busy.

Originally, he had a separation system at the cowshed and a direct irrigation system off that, which wasn't the best system. He had to shift sprinklers every few days to make sure areas didn't get flooded. It was just a problem he'd rather not have. He'd bring in contractors once a year to empty the pond but he knew that wasn't the most efficient way to deal with his effluent. The system did its job, but didn't work well for the farm. Once they put a new feedpad in and started collecting more effluent, they knew they needed to upgrade their system.

Better effluent management

What Scott realised was that he could turn this effluent problem into a fertiliser solution and use this resource across the whole farm. Scott and his family invested in a Nevada PTO pond stirrer and a 20,000L triple axle slurry tanker. It took about four to five weeks to arrive from New Zealand, and then they were good to go. Initially, he wasn't sure what size tanker to go with but was very happy he went with the bigger option. He has another farm and contracts out the tanker to his neighbours, so it was a good decision.

Better growth

He knew that effluent was full of potassium and phosphorus and great for soil health and growth, but he didn't realise how much. One of the first times he went with the slurry tanker to pre-spread a maize field, he missed some corners in the paddock's headland. His father gave him some grief about that, but once the maize had grown, it was plain to see where the slurry had been used. The maize reached eight to nine feet in the main part of the paddock but only reached six feet in the corners where he'd missed – nearly a metre difference.

Accuracy and efficiency

Using the slurry tanker has been simple; the steering axles and brakes make it easy to get around the farm and the big baffles mean there is no sloshing around. Scott particularly likes the Duo Rainwave™ guns on the tanker for their accuracy of application. He can get to every part of the farm, and there is less odour.

Mccauley Carse (Macca) is a mechanic and operator on the farm and is responsible for spreading, so he uses the slurry tanker most often. He's a huge fan. He likes that he can easily hook up the PTO stirrer, back it up to the pond, set the revs to 540 and it chops through the effluent. He then gets the tanker, drops the chute and fills the 20,000 litres in about four to five minutes. No messing around, he can spread several loads in a day. They follow the cows as they leave the paddocks, and they now have a very efficient rotation system in place, where they are getting maximum value from their effluent.

It's a resource.

There is always going to be a challenge with effluent but now Scott looks at it in a different light. It is no longer an issue; it is a resource that he has been able to capitalise on. With the slurry tanker, he has been able to get around the whole farm, feeding the soil and using the effluent when it has the highest concentration of nutrients. He's saving money on pre-spread synthetic fertiliser and his farm is reaping the benefits.

AT-A-GLANCE
Scott Korpershoek

REGION
Forest, TAS, Australia

FARM SIZE
290ha

CONTOUR
Fairly flat

COWS
400

INPUTS
Farm grown crops

EFFLUENT STORAGE
500,000L Clay lined pond
11,000,000L Secondary pond

PRODUCTS
- Nevada 20,150L Triple Axle Slurry Tanker
- TurboStir™ 7000 PTO Pond stirrer

Figures are approximate only.

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Raining Nutrients with a Slurry Tanker

Just when he thought he'd got his effluent management under control, the weather had other ideas. Just goes to show, there's never a dull moment on a farm.

Raining on the parade

Farming can be cruel, you can never be complacent, because for every up there is going to be a down. There are just some things you can't control, especially the weather, which has a nasty habit of ruining a good mood. Tom Middlebrook has had to put up with his fair share of bad weather. NSW had one of those weather spats in April 2025. Severe thunderstorms, heavy rainfall and flash flooding – it wasn't a good month. And a lot of hard work got washed away.

The calm before the storm

Before that storm, Tom had a lot to smile about. He'd taken a big step toward sorting out his effluent management system, landing on a more efficient and profitable set-up, a winning combo of a new **Nevada slurry tanker** and **TurboStir™ 7000 PTO pond stirrer.**

Tom milks six hundred cows every day of the year across two properties on Bowman Farm in Gloucester, NSW, Australia. Before the tanker, he was using a separation process, channelling the effluent into an underground concrete sump and then transferring it to an effluent dam using a corkscrew separator. This effluent was then pumped out to the surrounding paddocks using travelling irrigators.

In with the new, out with the old

But after twenty good years, this system was showing its age. The maintenance bills started to creep up, along with breakages and stoppages. The pumps struggled with the effluent, it wasn't set and forget, there was always a problem to fix. And because the effluent was concentrated in just a few paddocks around the dairy, the soil was becoming saturated – not good for the soil or cows.

They had to find a better solution, something more efficient and that could make better use of the effluent those 600 cows produce every day. After some research, there was a clear winner, a combination of a 16,500 litre slurry tanker and PTO pond stirrer. The addition of the pond stirrer was a "non-negotiable" for Tom. It not only makes the suction process of the tanker much easier, it also creates a much more uniform, nutrient-rich product to spread over the paddocks.

Easy street

What he really likes is the fully galvanised tank; it is easy to operate and not a lot can go wrong. His tanker has steering axles and big flotation tyres, which make it easy to manoeuvre around the whole farm. But the single most impressive feature for him was the Duo RainWave™ applicators. He much preferred that over a splash plate applicator. He gets a nice even spread, no wind drift and less evaporation. The RainWave™ creates much larger drops that penetrate into the soil, so you can be much more accurate with your application.

Saved $18k in the first two months

In the first two months Tom used the new tanker and stirrer, he could see clear benefits. For a start, they were able to massively extend where they could deliver the slurry to the dairy farm. With the travelling irrigators, he would cover roughly 20 hectares of land. That has changed significantly – he now

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covers 200 hectares, improving soil health right across the farm. But more importantly, in just the first two months of use, he has saved eighteen thousand dollars on purchased nitrogen costs.

They were on easy street, they just had to hook the tanker up, fill her up in minutes and get stuck into spreading. They had a great working system with very little to go wrong, until the rains came.

After the rain

71.8mm of rain fell in April and, according to Tom, most of that ended up on his farm. His land was flooded, the tractor broke down, and feed costs went up. It wasn't a good time, but like most farmers, Tom knew he would just have to work through until better times came around. What was hugely satisfying was the knowledge that he had a system in place that would be up and running the moment the weather allowed. Farmers might get knocked down, but they never get knocked out.

AT-A-GLANCE

Scott Connell

REGION
Gloucester
NSW, Australia

FARM SIZE
750ha

CONTOUR
Flat to rolling

COWS
600

INPUTS
Predominantly Pasture based, with a PMR and feeding a TMR when necessary.

Grain in the dairy (cowshed)

EFFLUENT STORAGE
Clay lined pond

PRODUCTS

- Nevada 16,500L Tandem Slurry Tanker
- TurboStir™ 7000 PTO Pond Stirrer

Figures are approximate only.

Working a Slurry Tanker on Rolling Hills

Based in Dorrigo, NSW, Scott runs 200 Jersey cows across 215ha of rolling hills and pasture. His Nevada tanker has become his prized purchase, reducing his fertiliser cost by around 30-40%.

Creating silage

On Dorrigo Plateau there has been an unusual amount of rain this year, 68 inches (1,727mm) so far, so Scott takes every chance he can to feed the new growth of silage. His cows are fed mainly on grass and then silage for four or five months of the year. Right now, it is a change season when he'll switch from kikuyu to rye grass and oats, so he'll follow up the planting with slurry to get the nutrients back into the soil and give his new growth a kick-start.

Working on sloped ground

And even though there has been more rain than usual, once the sun comes out, his 10,000 litre slurry tanker has not had any issues with the rolling hills his farm sits on. Even though it is carrying 15 tonnes of effluent, he has not seen any damage to his paddocks or tracks. The softer ground did make it more difficult to get to the steeper parts of the paddocks until he learned to start spreading on the flat first and then move up the slope as the tank got lighter. What he really likes is that he can reach his whole farm without any worries. The RainWave™ applicator deposits heavy droplets onto the soil, so there is virtually no run off and minimal wind drift.

Better coverage

Before he got the tanker, he had a traveller with 600 metres of mainline, which limited coverage to just 15% of the farm. It was messy and there were always blockages. With the tanker, he is now covering 70% of his farm and he reckons he has reduced his fertiliser cost by 30 to 40 per cent.

Plus, his old system could only be used on rectangular shaped paddocks, which wasn't a great fit for the topography of his farm. With the Nevada tanker, he can reach even the odd-shaped paddocks.

Scott came to Nevada because the standard machine had everything on it he wanted. The auto-fill feature and the fact that all four wheels are braked, sealed the deal. It was exactly what he needed for the rolling hills on his farm.

The Nevada auto-fill arm feature stood out for him. With the eight-inch suction, it takes him just three minutes to fill the tanker. He doesn't have to get out the cab, no mess, no problems, he just fills up, switches on a podcast and starts spreading.

The purchase process was easy too. Scott was worried that getting a machine from NZ would be a bit of a drama, but all it took was one phone call and eight weeks later it rocked up to his farm.

Advice, "Just get into it."

Scott thinks getting a Nevada tanker has been one of the best decisions he has ever made for his farm. It is not just the cost savings he's made, it's also simple and easy to use, as well as being fast and efficient. "I've had my wife and my teenage daughters use the machine, and they love it."

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AT-A-GLANCE
Scott Connell

REGION
Dorrigo, NSW, Australia

FARM SIZE
531 acres (215ha)

CONTOUR
Rolling to steep

COWS
200 Jersey

INPUTS
Grass & silage for 4-5mths/yr

EFFLUENT STORAGE
200,000L
Clay lined pond

PRODUCTS
- Nevada 10,000L Tandem Slurry Tanker

Figures are approximate only.

"The old system could only be used on rectangular paddocks. Now we can weave and duck and do all sorts - it's a good fit for this farm."

Get More Done in Less Time

From investing in a state-of-the-art Nevada slurry tanker to adopting technologies that reduce environmental impact and improve farm productivity, John's story is one of resilience, resourcefulness, and forward-thinking. Here's how this multi-generational farm continues to grow and thrive while embracing modern agricultural advancements.

Located in the Waikato region just 10 minutes from Cambridge is John Charlton's family farm of 105 years. What started as 40 hectares has grown to 112 hectares of thriving farmland. "My father has been very passionate about buying land as it has come up and we've been able to purchase little bits as we go," John said.

John and his wife have leased their flat contour and sandy loam soil farm for 20 years from the family. With 340 cows split into two herds of Jersey and Fresian cows, the paddock rotation is made easier with the varying sizes of each section. "It works well with a two-herd system," John remarked.

Keep it simple

Being a System 3, the farm consists of in the shed feed and round bale silage with the cows on pasture all year round. When it comes to the effluent management system, John keeps it as simple as possible. The effluent system includes a 500,000 litre bladder tank for the bulk of storage along with a 30,000 litre underground tank that is gravity fed from the shed itself. The underground tank is pumped directly to a slurry tanker, and then spread throughout the farm regularly.

As technology has changed over the years, it has made it easier to spread effluent more efficiently and with less hassle. The family farm has never used an irrigator and has continually utilised slurry tankers since the 1950s. "Our previous systems were very similar using slurry wagons, but the advances in the Nevada ones make it a lot more efficient and easy for staff to use," John noted.

When it came time to upgrade, John purchased a **Nevada 10,000L Slurry Tanker** which provided the equipment to spread effluent at a low rate across a large portion of the farm. "The process for purchasing was very simple. It was very easy and the delivery was very simple as well even though we are not in the same district. And the follow up service has been good as well," John said.

Working the whole farm

The flexibility of the Nevada single axle slurry tanker offered better navigation through narrow gateways, the ability to get near hedges, and space awareness to avoid troughs. With many lifestyle block owners nearby, John was concerned about lowering wind drift while still being able to reach the furthest corners for even growth across the paddocks.

John has increased capacity and lowered the fertiliser bill by getting effluent onto 90% of the farm with a Nevada slurry tanker.

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To go alongside the slurry tanker, John chose a RainWave™ attachment, which ensured effluent application closer to the ground with fewer particles going above the hedgeline. John immediately noticed the difference of less wind drift, enabling him to get closer to hedges and boundary fences without concern.

Internal galvanisation

Over the last 10 years, John has tried other brands of slurry tankers with features that didn't offer longevity or ease of use. Previous slurry tankers did more damage turning sharp corners and going through tight gateways on the farm. When researching what slurry tanker could offer all the features he was looking for, it was the double galvanisation that sealed the deal. "The internal galvanising, which is not always the same in all tankers in the ones we were quoted, were not internally galvanising, so that was a big attraction...and I've already seen evidence of the extra galvanising on the Nevada tankers doing its thing, it's clearly a better long lasting product than what I've used in previous effluent tankers," John said. Additional advantages of the features included easy maintenance, floatation tyres, large side glass, and an auto-filling arm that saves staff from having to manually connect pipes. The system provided no challenges in setting up and continues to be a valuable asset on the family farm.

Instant response

John has increased capacity and lowered the fertiliser bill by getting effluent onto 90% of the farm with a Nevada slurry tanker. "We find it works a lot better for our system to spread regularly and it just allows that instant use of fertiliser of the effluent onto the farm paddocks and the instant response we get from following the cows around on the pasture rotation," John noted.

For farmers who are looking to get a slurry tanker, John said "it's not as time consuming as you might think." The efficiency of the technology and the design of the slurry tanker allows for greater capacity of loads in less time, making it easier for staff to get the job done. "I would recommend the Nevada tanker for the ease of use and the efficiencies of all the technology involved on it with the auto-fill arm and the RainWave™. And it's very easy for myself and the staff to use. So yes, I would recommend it for sure."

AT-A-GLANCE

John Charlton

REGION
Waikato

FARM SIZE
112ha

CONTOUR
Flat with some hills

COWS
340

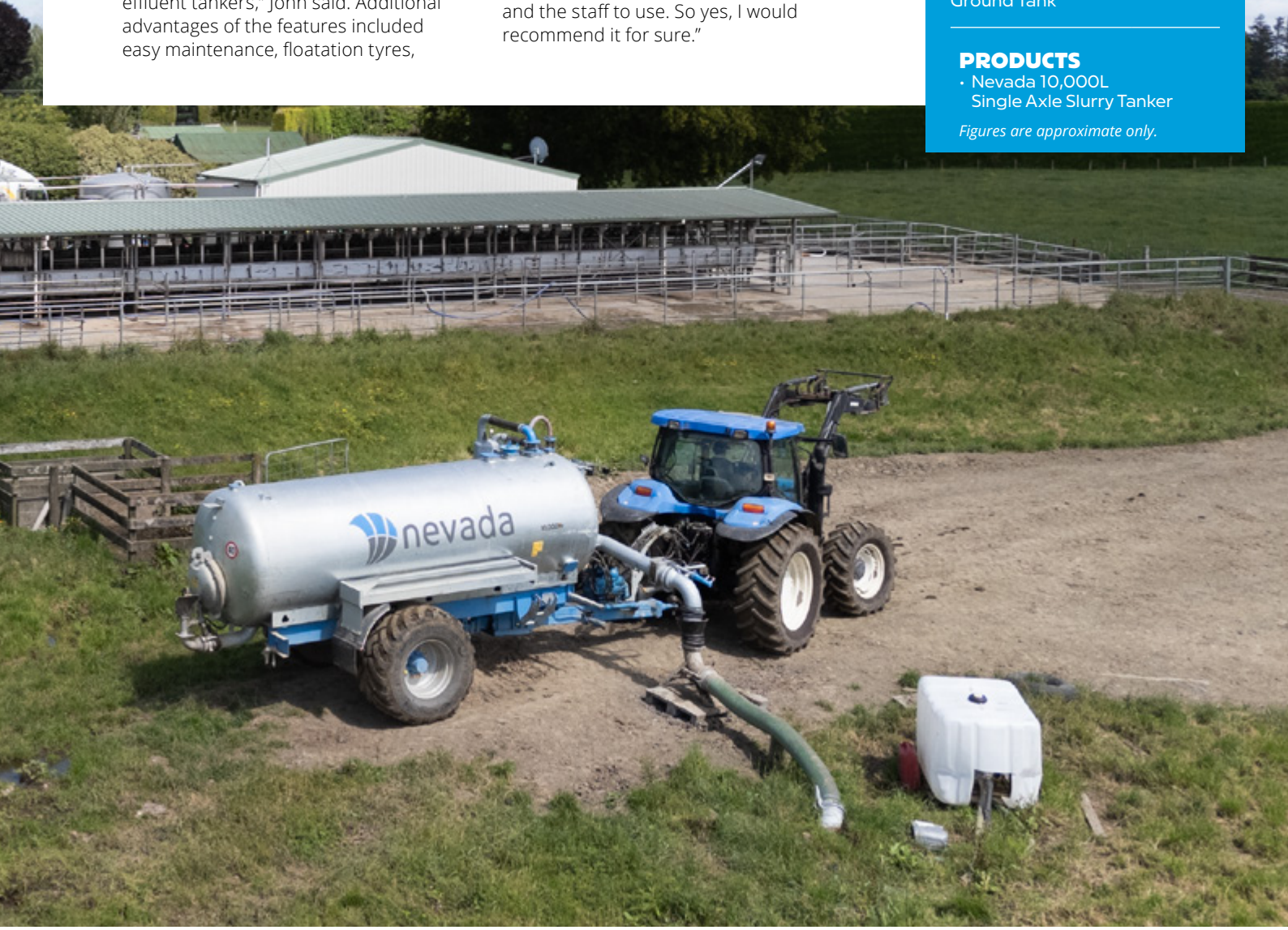
INPUTS
System 3
Grass and Silage

EFFLUENT STORAGE
500,000L Bladder Tank

30,000L Under Ground Tank

PRODUCTS
- Nevada 10,000L Single Axle Slurry Tanker

Figures are approximate only.



Liz saved $20,000 in fert

Based twenty minutes outside of Rotorua in Hamurana, Liz Hodgson runs 240 friesian cows on 136 hectares that supply Open Country Dairy and the family business Volcanic Creamery.

Liz alongside her son Hamish provide cafes and stores around the Bay of Plenty with premium milk and yoghurt. "We started this business here as a value add for our farm and to give us a bit more control over the product we are selling," Hamish said, "taste is another thing altogether. It's unreal, it's amazing, we have so many loyal customers that swear by our milk and that's really what makes it all worth it." With a product that is better for the environment with sustainable packaging, the family business was looking to upgrade to better quality dairy equipment to match the growing need for efficient systems on the farm.

More efficiency

Before upgrading to Nevada, Liz was worried about the effluent system in place. "When I had the old system, I was always worried that an inspector would turn up or something wasn't quite right. It was really hard to not get runoff with the old spreading system. The tanker is just a game changer. There is no stress, you spread it when the conditions are right. You get all over the farm, and no stress," Liz said.

Environmental regulations were increasing and due to living in a high rainfall area, equipment failure and runoff were a major concern. "I had a stationery rain gun, which was suitable for the contour, good for getting on hillsides, but just not that efficient and a constant worry that something had gone wrong with it," Liz said. Alongside the stationery rain gun, Liz previously was using a basic pond stirrer that operated in the middle of the pond that was difficult to access. Liz noted, "There was probably a metre of sediment that sat at the bottom of the pond, which was impacting the capacity of the pond."

Liz decided to invest in more efficiency and less mess by upgrading to a Nevada electric shore mounted stirrer. With simple install and easy maintenance, the stirrer is now able to keep sediment from building up on the bottom of the pond. "Several features with the stirrer really appealed to me. The fact that the electric stirrer is shore mounted, but you can literally alter the angle of it and the depth into the pond with one hand on a pulley system," Liz said.

"I haven't actually bought any fertiliser in for a year now, and I honestly don't think I will be,"

Better coverage

While initially Liz was looking to just upgrade to an electric pond stirrer, it was the pamphlet left on the table that helped her notice how much value a slurry tanker could bring to the farm. With the previous effluent management system, Liz was only able to spread effluent around the 40 hectares near the cow shed. By upgrading to Nevada, she is now able to spread effluent to 90% of the farm.

The pasture looks healthier and greener with the utilisation of effluent that was already available on the farm, which saves the farm over $20,000 in costs for fertiliser a year.

No runoff

"Prior to putting in the Nevada stirrer and effluent tanker, it was just an absolute nightmare on a daily basis," Liz remarked. When it came to making the decision about the tanker, Liz chose the **Nevada 12,800L Single Axle Slurry Tanker**. "The RainWave™ at the back is awesome, even spreading, good droplet size, no runoff," Liz said.

The main appealing feature of the slurry tanker is the minimal load time with three minutes to load nearly 13,000 litres and three minutes to empty.
"It doesn't get much better than that," Liz noted. Drive up to the filling station, drop the auto-fill arm and fill up all from the tractor seat.

Easy to use

Liz's main concern before upgrading was about operating the tanker on her own, but Nevada's slurry tanker makes the process is easy. "I'm not a tractor person by choice, but if I can use it, anybody can use it. It's super easy," Liz said.

Hamish says their milk is the best A2 milk in New Zealand and with the help of an electric stirrer and slurry tanker that has eased daily effluent management processes, the family can focus on delivering great products to customers around the Bay of Plenty. "If anybody is looking at a new stirrer or a tanker, Nevada's been great. They are great. The product is exceptionally well made and very easy to use. And the backup from the team at Nevada is great," Liz said.

As Liz points out, "It's been an absolute game changer. Just removed all the stress from the effluent system."

AT-A-GLANCE
Liz Hodgson

REGION
Bay of Plenty

FARM SIZE
136ha

CONTOUR
Undulating

COWS
240

INPUTS
System 5
& grass silage

EFFLUENT STORAGE
3,000,000L
HDPE lined pond

PRODUCTS
- Nevada 12,800L Tandem Slurry Tanker
- Nevada ELZ915 Electric Stirrer

Figures are approximate only.

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Effluent Management Made Easy

Nestled in the heart of the Waikato, near Otorohanga in the Otewa region, lies a thriving family-run dairy farm spanning 222ha. Home to 480 cows, managed through a 36-bale rotary cowshed with a split calving season in spring and autumn.

Fabian along with his wife Kylie and kids run a system 3 to 4 with maize, grass silage and DDG all year round along with Lucerne that is grown on farm.

Kylie looks after all the milking and manages AI for calving while Fabian looks after the effluent management system that previously was a messy hassle of a task. Before switching to Nevada, the dairy effluent management system consisted of an old truck pump and an electric pump that ran to stationary or travelling cannons. The cannons were slow and time consuming to put into place. "It was an absolute nightmare as far as weather was concerned trying to get it out in time," Fabian said. Spray drift was also a great challenge, which prompted a call from the neighbour asking for him to turn off the cannons due to the smell. In a need to finish the job, he offered the neighbour $100 for them to go out to dinner.

A present from Santa

With compliance changes and the need for more capacity, Fabian decided to implement a 20 million litre pond with a weeping wall system and concrete tank. After not doing anything with the pond for two years, Fabian figured, "I would get myself a Christmas present and I told my wife I wanted a Nevada tanker."

Fabian received a **Nevada 12,800L Tandem Slurry Tanker** that year for Christmas that could be filled via the concrete tank next to the weeping wall, which is gravity fed from the lined pond at the top of the hill. Fabian noted, "I've owned a Nevada tanker for 5 years now. It's really low maintenance." Only minor upkeep is needed and the RainWave™ attachment releases larger droplets that provide less wind drift. "I'll drive around my house, my tenant's house, I don't have any issue and I haven't had a complaint," Fabian said. Even the others in the district noticed the spread pattern from a Nevada tanker was nicer than their tankers from other companies.

When asked why he chose a Nevada tanker, Fabian noted his father worked for a galvanising company in Australia years ago that informed the decision. His father said, "anything galvanised lasts." The silver bullet of a tanker also offers an 8inch auto-fill arm function, which allows Fabian to stay in the tractor instead of managing messy irrigators.

Faster grass recovery

An additional benefit of the tanker is the ability to utilise the nutrients from effluent directly, instead of applying artificial nitrogen. With more reach to crop paddocks further away, Fabian has noticed the benefits in the maize and grass growth. "We had four years of drought in a row, some really hard summers, feeding constantly, so twice a day feeding," Fabian said. To help with the drought, he would often spread effluent with the Nevada Slurry Tanker until two or three in the morning. "Some might say I was crazy, but we recovered a lot faster as soon as we got five millimetres of rain or anything like that. Our grass jumped out of the ground."

70% better coverage

Fabian is able to access 70% more of the farm with greater capacity to grow grass and increased days in milk. "I recommend Nevada slurry tankers to anyone," Fabian said. It only takes three minutes to load and three minutes to unload, with the majority of the time spent travelling across paddocks. "I'm comfortable taking the tanker everywhere that I can get," he said.

When asked what he thought of the Nevada Slurry Tanker, Fabian responded, "The Nevada tanker was number one for me, love it."

"I'm comfortable taking the tanker everywhere that I can get"

AT-A-GLANCE
Fabian Pereira

REGION
Waikato

FARM SIZE
222ha

CONTOUR
Flat to rolling with hilly back country

COWS
480

INPUTS
System 3-4, Maize and Grass Silage aswell as DDG and lucerne

EFFLUENT STORAGE
20, 000, 000L HDPE Lined Pond, with a weeping wall System and concrete tank.

PRODUCTS
- Nevada 12,800L Tandem Slurry Tanker

Figures are approximate only.

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An Easy Decision

In the deep south of New Zealand just a short way away from Gore, Ben and his daughter Mackenzie farm 135ha with 380 cows in Riversdale.

With a farm that is flat to easy rolling contour, they supply Fonterra and now operate with a **Nevada 12,800L Tandem Slurry Tanker**, and **Nevada TurboStir™ 6000**.

Prior to buying the Nevada Slurry Tanker, Ben and Mackenzie were using a hard hose cannon with an electric pond to irrigator pump. The irrigation system worked initially for their farm, but it was limited and only able to reach 70 hectares. Taking the approach of a hard hose took eight hours of labour to cover a 400 metre section that covered 120 cubic metres. By upgrading to Nevada, Ben says, "The cost analysis is looking great." They can now deliver 300 cubic metres in the same amount of time, nearly tripling their capability.

The best upgrade

Their previous effluent management system was only able to suck liquids from the pond, which left valuable nutrients in the solids behind. The shift to Nevada equipment saves them time, as well as delivers valuable nutrients across to further paddocks they could not reach before.

Mackenzie said, "Mum's not complaining about stinking all her washing and clothes and having whites that aren't exactly white anymore from filthy overalls."

The process to set up the new system was fast and effective. With the product conveniently already in stock, Ben and Mackenzie were quickly set up with a Nevada 12,800L Tandem Slurry Tanker. The simplicity of operation with three hydraulic spools double acting on the tractor, one brake line, a fast 8in auto-fill arm, and no electronics, the slurry tanker is paired perfectly with a **Nevada RainWave™** to dispense effluent across a 12 metre spread.

Better use of effluent

Their choice for a Nevada TurboStir™ 6000 is now able to mix the pond for better consistency of spread, ensuring nutrients are evenly distributed across the farm with minimal loss. With cows being fed on crop, baleage, and straw, the increase in yields benefit every aspect of their operations. Even after a few heavy days of rain, the slurry tanker can handle the terrain with ease without damaging the paddocks. "Having to just plug-in the hydraulic hoses in the back and running it off the joystick was a game changer for us," Mackenzie said.

The benefits to their effluent management system were seen immediately with the increase in access to anywhere on the farm. They are no longer limited to where the initial irrigation lines were set up. Ben and Mackenzie are now able to manage three loads in a day with the Nevada Slurry Tanker that benefits nutrient value and saves them time.

Highly recommended

"We would definitely recommend Nevada to anyone if they were looking to upgrade their system. They have been absolutely fantastic to deal with and love their products," said Ben.

"Investing in the Nevada Tanker was a big win for us," Mackenzie remarked,

"You could customise your effluent system through Nevada to work perfectly for the farm or conditions you're in, so 100% I would recommend it."

At the end of the day, Ben and Mackenzie can throw their washing in much cleaner than before with Nevada not only changing their workload, but making the day easier for the whole family.

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AT-A-GLANCE
Ben & Mackenzie

REGION
Southland

FARM SIZE
135ha

CONTOUR
Flat to rolling

COWS
380

INPUTS
System 3/4, crop & grass silage

EFFLUENT STORAGE
1,800,000L
2 x HDPE lined

PRODUCTS
- Nevada 12,800L Tandem Slurry Tanker
- Nevada TurboStir™ 6000

Figures are approximate only.

"Having to just plug-in the hydraulic hoses in the back and running it off the joystick was a game changer for us"

Out With the Old, in With the New

Brian and Ross Williams are a father and son team situated in South Taranaki where they operate on 130ha with 400 cows on flat to rolling land. When consent was up, they looked for a local and trustworthy company that could help them run their dairy farm with efficiency.

Meeting compliance

The farm previously relied on a system that was put in place 30 years ago with the cow shed being located 500 meters away [from the effluent pond]. Occasionally Brian and Ross would call in a local contractor who would suck the ponds out for them in order to spread the effluent onto the paddocks. When their compliance was up, they knew it would be a larger expense to connect power down to the ponds for a traveling irrigator system that met compliance.

Instead of opting for a higher expense and more complex installation, Brian and Ross called Nevada to find the right system for the job. They opted to utilise their 112-horsepower tractor to pull a Nevada 12,800L Tandem Slurry Tanker that does an average two to three loads a day or a full day a fortnight.

Utilising a Nevada slurry tanker system helped them cut costs and share the responsibility of spreading effluent evenly to all paddocks. Brian noted that, "We chose Nevada cause they are local and I like supporting local businesses. I've certainly read enough about the equipment and seen enough of their tankers throughout the country to know that they're good."

More coverage

They found a slurry tanker was easy to operate and could manage spreading effluent across 90% of the paddocks with a good natural fertiliser that comes directly from the cows on their farm. Instead of applying effluent in the same place every time, a Nevada tanker system helps them reach poor paddocks and spread effluent evenly.

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AT-A-GLANCE

Brian & Ross Williams

REGION
South Taranaki

FARM SIZE
130ha

CONTOUR
Flat to rolling

COWS
400

INPUTS
System 4

EFFLUENT STORAGE
1,000,000L
Clay lined

PRODUCTS
- Nevada 12,800L Tandem Slurry Tanker
- Nevada TurboStir™ 6000

Figures are approximate only.

With no challenges setting up the system, they have owned a **Nevada 12,800L Tandem Slurry Tanker** and a **Nevada TurboStir 6000 PTO Pond Stirrer** since early 2023. They enjoy the assurance of Nevada's team only being a phone call away to help with any issues they may have.

More efficiency

Both Brian and Ross would recommend Nevada to other farmers who are looking to put in a reliable and efficient effluent system that makes it easy to meet compliance. In Brian's words,"This 12,800 litre Nevada slurry tanker does the job."

"I've certainly read enough about the equipment and seen enough of their [Nevada] tankers throughout the country to know that they're good."

What do a slurry tanker and robotics have in common?

AT-A-GLANCE
John Duindam

REGION
Deloraine, TAS, Australia

FARM SIZE
160ha

CONTOUR
Flat to slight roll

COWS
180 Fleckvieh cows

INPUTS
Grass & silage

EFFLUENT STORAGE
4,000,000L
Clay lined pond

PRODUCTS
- Nevada 10,000L Single Axle Slurry Tanker
- TurboStir™ 6000 PTO Pond Stirrer

Figures are approximate only.

You can't stand still in farming, the future is always biting at your heels. But that means there is always the opportunity to learn something new and improve. John Duinham is future-proofing his farm with new ways of thinking.

Looking to the future

At the moment, he is transitioning to robotic farming. It's a high-tech solution but he is combining that with a tried and tested method that has been generating results for generations of farmers. Using effluent to grow heaps of grass; simple and effective, it is feeding his whole farm with nutrients. Both things are improving efficiency, so his cows and sons reap the benefits.

Improving efficiency

To make more efficient use of his effluent, he has turned to a **10,000L slurry tanker and a PTO stirrer** for his pond. He is producing all the grass, silage and hay he needs, reducing vet bills, improving soil health and managing the whole system from the cab of his tractor. It is a piece of cake to operate, just two control valves. He comes home clean and relaxed, which gets a big thumbs up from his missus.

A headache he didn't need

Before they purchased a slurry tanker, John had a little traveller, which was a never-ending source of problems. Every day, something was going wrong or had to get fixed - it was more trouble than it was worth. In the end, enough was enough; he gave it away, got rid of a headache and bought a dream replacement.

Better soil health

John produces all the feed he needs and has no need for extra fertiliser. The area has suffered from a green drought, but with the slurry tanker , he has been able to reach every nook and cranny of the farm. Soil health has vastly improved. He had it tested by his local agronomist, who couldn't believe the results. During the drought, his green land stayed green, and when the rain did finally arrive, the grass shot away.

Money well spent

Before he got his tanker, John was using contractors to empty his effluent pond. Good fellas but it cost $8,000 every time they turned up and the effluent never ended up where he wanted it. His pond needed to be emptied three times a year, which cost him $24,000. Investing in the slurry tanker he saved him that money straight away. So in John's way of thinking, in three years it will almost pay for itself. Add to that the increased silage he has been able to produce and the fact that he does not need to buy fertiliser, it makes sense anyway you look at it. More grass, more milk, less headaches.

The way to go

John's advice – if you're considering getting a tanker, go and talk to someone who's using one. Most farmers will give you the straight truth. If there was anything wrong with it, he'd be the first to tell you, but in his opinion, it is the way to go.

Watch Video Online

A Simple Upgrade for Better Efficiency

Located in Matapu in South Taranaki, Trevor McCallum runs a farm that extends 80ha and milks around 160 cows on 64ha of the land. After downsizing from 260 cows and selling off some land, Trevor was looking for an effluent system that could be upgraded to meet new requirements and simplify operations.

Time for an upgrade

With an all grass fed system, the farm operates across mostly flat land with some hills sloping towards the river that runs through the farm. When it was time to upgrade from a system that was in place from 1986, Trevor contacted Nevada to find the best system that could be implemented with little disruption to daily milking.

The problem

Before implementing a system from Nevada, Trevor was operating with oxidation ponds. The clay lined ponds would often fill up at the wrong time of the year, making it difficult and inconvenient to empty out. Trevor often utilised a contractor to empty the ponds, but with issues of lack of completion of the job and no ability to divert water when the ponds filled quickly during periods of high rainfall, he found it difficult to manage. With his new Bladder Tank system designed, supplied and installed by Nevada, he can now have full control over operations.

Trevor remarked that, "As the rules change, we've had to change with them. And we've changed to a system which we believe is the right one to use."

The solution

He decided to go with a **300m³ Nevada Bladder Tank**, a **Double Sand-Trap** in-line from the cow shed, a **sump** that is fitted with a **Submersible Stirrer**, and **Submersible Vortex Pump** with a float switch system. When the sump reaches a specified level, the submersible pump kicks in to pump the effluent to the bladder tank for storage. As the weather permits, the effluent can be transferred through the **1890 Progress Cavity Effluent Pump** that sends the effluent out to the **Spider Deluxe Travelling Irrigator**.

While the system has only been in for a few weeks, it has been running seamlessly from day one. The effluent management system is conveniently automatic, even when it is raining. The process is as simple as flipping a switch for where the effluent is directed. The only thing Trevor has to worry about is shifting the irrigator.

Smiles all round

When asked about his experience working with Nevada, Trevor commented 'With the install it was really good, actually. They gave me a ring and told me they had everything to go and they really got onto the job and got it done. They communicated really well with me, and they just came and did the job. In 2 weeks and all done!"

In Trevor's words, "I'm quite happy, very happy."

Watch Video Online

AT-A-GLANCE
Trevor McCallum

REGION
South Taranaki

FARM SIZE
80ha

CONTOUR
Flat with some hills

COWS
160

INPUTS
Grass and Silage

EFFLUENT STORAGE
300m3 Nevada Bladder Tank

PRODUCTS
- 300m3 Nevada Bladder Tank
- Double Concrete Sand Trap
- Submersible 2.2Kw Pump
- Submersible 1.1Kw Stirrer
- 1890 PC Effluent Pump
- Spider Deluxe Travelling Irrigator
- Mainline & Hydrants

Figures are approximate only.

"As the rules change, we've had to change with them. And we've changed to a system which we believe is the right one to use"

Less Hassle Than an Irrigator

Down on the coast of Waverley, Alan Coburn is making significant strides in his operations across 180ha. With a 380 cow dairy farm, Alan runs a 70% split calf in Autumn and 30% in Spring with two full-time staff.

Previously, Alan's effluent management operated on a straight pump to paddock system with an irrigator that needed to be moved twice a day due to the lack of storage facility available. Whether the southerly was blowing or the rain was pouring down, Alan and his staff were out working to move the irrigator twice a day and checking on the pump to ensure it was working properly.

Modern solution

The biggest concern for him in modernising operations was how to place a pond and keep the embankment secure without issues of erosion over time. When Alan contacted Nevada, all those concerns were flipped into positive solutions.

Nevada was able to deliver a complete package that included design of the whole system, the supply of equipment, and full installation. As soon as the design was finalised, a digging crew was sent out.

The best tools

Within a week the 1.3million litre pond was dug out and fully lined with a **HDPE pond liner**. In that time, Alan and his staff were able to focus on what they do best without any concern around the management or installation of the project. To further streamline operations, Alan opted for a **9m Nevada Electric Stirrer** with **Progressive Cavity (PC) Pump** for the main pond and a **submersible stirrer** with a **submersible transfer pump** for the sump.

You're in the driving seat

To spread effluent further down the farm, Alan decided on a **Nevada 12,800L Tandem Slurry Tanker**. Instead of having to get out in the rain to move an irrigator around, he is able to comfortably operate the tanker from his cab. In the middle of summer he is able to empty the whole pond and spread it across the paddocks efficiently. In his words, "it's a bloody good machine really" and even gives Alan time to get home for a beer.

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"Our biggest benefits would be spreading the effluent further around the farm at a very reasonable cost structure."

AT-A-GLANCE
Alan Coburn

REGION
South Taranaki

FARM SIZE
180ha

CONTOUR
Fairly flat, the odd contour & hills

COWS
380

INPUTS
System 5, maize, grass silage & PKE & molasses

EFFLUENT STORAGE
1,300,000L HDPE lined

PRODUCTS
- Nevada 12,800L Tandem Slurry Tanker
- HDPE Pond Liner
- Nevada ELZ9 Electric Stirrer
- PC Pump 2690
- Submersible 1.5kW Pump
- Submersible Stirrer 2.2kW
- Mainline & Hydrants

Figures are approximate only.

Setting up an Effluent Contracting Business

The timing was perfect when Lars Smith took the leap into his own agricultural contracting business specialising in effluent spreading.

Having spent a good 7 years working for a well-established agricultural contractor he could see the need for specialty effluent spreading services around Northland, and he was ready to go out on his own, so when the opportunity to purchase an existing business came up, he took it!

'Everything fell into place at once. I was ready to move on from my current ag contracting job and into my own thing. While over some beers with mates the opportunity arose to purchase an existing business as the current owner was wanting to slow down and retire. So LJS Contracting Limited was born.' said Lars Smith.

Delivering compliance needs

It turned out to be a great move, with LJS Contracting being in high demand throughout Northland, covering areas from Whangarei to Kaitaia. Lars has focused the business solely on dairy effluent spreading, enabling him to offer a service where clients not only get the job done well and on time, but that they're compliant with the ever-tightening council restrictions.

'Some of the biggest challenges with effluent spreading are keeping up with the ever-increasing restrictions, keeping ahead of the wet weather and getting to all your clients on time.'

More speed, more capacity

When Lars first bought the business, he inherited two **8,000L Nevada Single Axle Slurry Tankers**, but with the growing need for effluent spreading he purchased a **second-hand Nevada 10,000L Tandem Slurry Tanker with auto-fill**, which increased his capacity and speed in getting the job done.

After only 3 months of getting the 10,000L slurry tanker he quickly decided it was time to purchase a second auto-fill slurry tanker, but bigger. So, he bought a new **Nevada 12,800L Tandem Slurry Tanker**.

Automatic success

Now with two auto-filling slurry tankers and a PTO stirrer, no job is too big or too small for LJS Contracting Limited – check out some of their work here. Happily taking on more and more clients, and with their services in such high demand we wouldn't be surprised to see the business upgrading again in the near future!

AT-A-GLANCE
LJS Contracting

REGION
Northland

FARM SIZE
Any farm size

CONTOUR
Various

PRODUCTS
- Nevada 10,000L Tandem Slurry Tanker
- Nevada 12,800L Tandem Slurry Tanker

Figures are approximate only.

'I like how well Nevada tankers are built, their availability, and good backup service.'

Specialist provider of

DAIRY EFFLUENT EQUIPMENT

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