



Grass  
Technology

# Slurry Solutions



Scrapers | Pumps | Separators

Storage | Mixers | Reelers



Grass Technology has developed an exclusive range of slurry solutions for the EU market, aimed at the modern day farmer and contractor, the objective is to provide efficiency and performance from farm to field.



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Now Stocking



SCRAPERS



PUMPS



SEPERATORS



STORAGE TANKS



MIXERS



APPLICATION





# Storage Tanks



Storage Tank & Cover

### Key Features

- Various capacities from 83m³ (18,257 gal) to 6769m³ (1,489,043 gal)
- Diverse range of ring options 3.66m (12') to 7.26m (23.82') high
- Complete turn key installation available
- Short manufacturing and erection times
- Extendable tanks installed as standard, built for strength not just €
- Slurry management a fore thought not afterthought
- Full accessory range for filling and emptying
- Complete bespoke mixer range available
- Cover ready options



Storage Tank

### System Advantages

- Proven technology with 45 years in agricultural use
- Safe for public and livestock
- Maximum volume minimum surface area
- Minimum rain water collection
- Minimise ground water pollution
- Weather and slurry resistant
- High durability
- Easy to maintain and clean
- Simple slurry management environment
- Ability to cover with relative ease

# Tension Covers

### Key Features

- Over 50 years of experience (Cunningham Covers)
- In house design and manufacture
- Reinforced PVC coated polyester fabric
- UV light protected
- Slurry resistant
- Stainless steel tensioners
- Stainless steel pole base mount
- Arizona hard wood pole
- Typical Cover Design Life – 20 years (subject to the correct maintenance)

### System Advantages

- Eliminates rain water collection
- Increases slurry storage of the tank by upto one-fifth
- Reduces the cost of spreading rain water
- Minimises nitrogen losses
- Increases the nutrient value of slurry
- Reduce cost of artificial fertilisers



Slurry Tension Cover

### Tension Cover Wind Resistance

Meters per second (m/s)	40
Beaufort wind force:	12 (Hurricane)
Knots (kts):	77.75
Miles per hour (mph):	89.48
Kilometers per hour (km/h)	144

# Slurry Aeration System

A cost effective & user-friendly way to capture the Ammonium Nitrogen content in slurry. Ammonium Nitrogen in your slurry store can be increased by between 100% to 400%. This system has the capability to produce better slurry, increased grass yield = no fertiliser needed

## Benefits

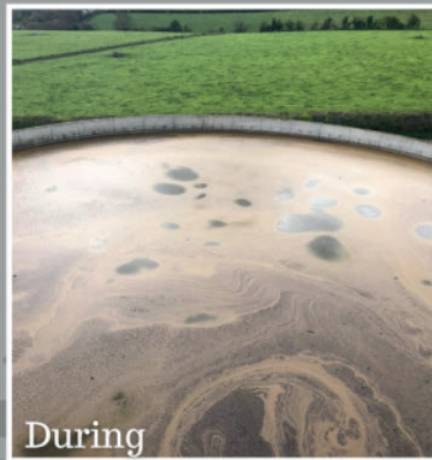
- Capture more lost Nitrogen
- Enhance grass growth
- Mix and prevent crusting
- Reduce odours
- Eliminate lethal and toxic gas
- Plant friendly fertiliser
- No internal fixing
- Cost Defective

## Process

During Storage significant amounts of nitrogen can be lost from manure before it can be applied as a source of fertiliser. This system provides oxygen to change the bioecology of the slurry to meet the Biochemical Oxygen Demand (BOD) and provide dissolved oxygen within the liquid to create a healthy aerobic environment for the selected bacteria to thrive.

The unique fine bubble diffusers require no fixing and are easy to install. Fine bubbles need less energy to create, while providing a much greater surface area for oxygen transfer to occur. Air is provided by compressors and can be supplied to suit a single or 3 phase supply.

MIXERS



## Tank Wall Mixer

### Key Features

- Available for steel or concrete stores
- PTO and electric drive options
- Fully galvanised to extend product life
- Strong 2" drive shaft
- Special 2" blockhouse bearing and slurry seal
- Fluted rubber propeller bearing
- Bolt on propeller
- 600mm and 650mm propeller options
- Flexible height adjustable legs and anchoring feet
- Complete tank fixings (plate and rubber seal)

### System Advantages

- Effective mixing system for small to medium sized tanks
- Potential to install multiple units
- Benefits of fixed equipment
- Retro fittable
- No in-tank maintenance required



This slurry store mixer is ideal for regular use to help prevent crust build-up and sediment build-up in above ground slurry storage tanks. To prevent any vibration against the wall of the tank, the machine is fitted with five stabiliser legs which are anchored down to a concrete pad. Only the propeller is inside the tank to allow no obstruction of slurry movement.



# Tank Harrier Mixer

## Key Features

- Versatile range available from 4.5m (15ft) to 7.0m (23ft)
- Fully galvanised metal work for extended product life
- Compact design flush with tank top ensures cover ready mixing
- Unique 55mm blockhouse bearing and slurry seal
- Special cassette bearing and drive shaft wear collar
- High output induction impellor, 18m<sup>3</sup>/min (4000 gal/min)
- Fibre processing chopper kit
- Efficient twin jetter system
- Sediment busting lower tank jetter
- Crust targeting top jetter with 300 degree rotation, 45 degree vertical movement

## System advantages

- Effective mixing system for medium to large tanks
- Capacity to operate under tank covers
- Powerful solution for large tanks
- Ability to target both upper crusts and lower sediment
- Full turn key installation service



Tank Harrier Mixer

# Tank Master

## Key Features

- Versatile range available from 2.1m (7ft) to 7m (23ft)
- Low power requirement from 60kW (80Hp)
- Fully galvanised metal work for extended product life
- Heavy duty Rogelberg gearbox (540rpm)
- 50mm (2") drive shaft and bearings
- Robust hard wood steady bearing
- Low maintenance wet run fluted bottom bearing
- Efficient 600mm bolt on propeller
- Strong propeller protection leg

## System Advantages

- Flexible use with steel and concrete slurry stores
- Portable allowing multiple store entry points
- Basic hydraulic control for adjustment in propeller working height
- Strong and simple technology
- Economical solution for medium size tanks



Tank Master

The Tank master is the perfect machine for breaking up heavy crusts which build-up on top of above ground slurry storage tanks. This machine can be moved to different positions around the tank on the tractor 3-point linkage. The mixing beam is controlled by a hydraulic ram allowing the propeller to mix at different depths, allowing the solids and the water content in the tank to be mixed together giving a better slurry consistency



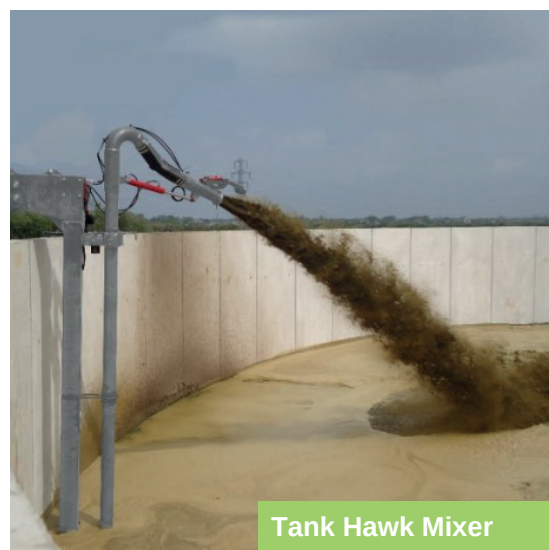
# Tank Hawk Mixer

This machine has been designed to solve the problem that many farmers have with agitating large, above ground slurry storage tanks.

The Hawk Mixer uses its bottom jetter nozzle to agitate any sediment in the bottom of the tank, whilst the top jetter nozzle can be rotated to break up large crusts which form at the top of the tank. This machine can be moved to different positions around the tank on the tractor's 3-point linkage

## Key Features

- Versatile range available from 3m (10ft) to 7.3m (24ft)
- Fully galvanised metal work for extended product life
- Heavy duty Rogelberg gearbox (1000rpm)
- Strong 55mm drive line (shaft and bearings)
- Special cassette bearing and drive shaft wear collar
- High output induction impellor, 18m<sup>3</sup>/min (4000 gal/min)
- Maintenance friendly central bearing grease bank
- Sediment busting lower tank jetter
- Crust targeting top jetter with 300 degree rotation, 45 degree vertical movement
- In cab comfort remote control



Tank Hawk Mixer

## System advantages

- Flexible use with steel and concrete slurry stores
- Powerful solution for large tanks
- Ability to target both upper crusts and lower sediment
- Adaptable for different sites with the optional trailer
- Multipurpose option of 150mm pump discharge pipe

# Kite Hydraulic Mixer

The Hydraulic Kite Mixer has been designed for versatile use in most slurry storage options. The hydraulic motor requires a minimum of 100L per minute to give the performance to the propeller head. A 5m long galvanised frame has pallet fork holders and safety locking pins allowing most applications to be reached.

## Key Features

- Versatile range available 5m (16ft), 7m (23ft), 9m (30ft)
- Fully galvanised metal work for extended product life
- Pallet fork, telehandler or excavator brackets available
- Large 3/4" hydraulic hose system
- Robust 400cc motor, min 100l/min max 200l/min
- Hydraulic relief valve pressure system
- TS (Triple Seal) motor leak protection
- Flexible multi angle propeller head adjustment
- Super efficient 900mm propeller
- Propeller protection cow horn



Kite Hydraulic Mixer

## System Advantages

- Ability to work in pits, lagoons and stores
- Manoeuvrable and flexible around lagoons and store
- Speedy mounting and de-mounting
- Simple hydraulic drive; no spinning PTO, shaft, bearings, etc
- Low health and safety risk (no PTO shaft)



# Under Slat Agitator

The Under Slat Agitator is used to mix smaller underground tanks and small slatted sheds with limited access holes. The slurry mixer is easily controlled and placed into position with a hydraulic ram and wide angle PTO shaft.

## Key Features

- Agile 2.7m (9ft) mixer with wide angle PTO
- Fully galvanised metal work for extended product life
- Low power requirement from 45kW (60Hp)
- Robust 50mm (2") drive shaft
- Strong 50mm (2") block bearing
- Accurate hydraulic access and depth control
- Low maintenance wet run fluted bottom bearing
- Super efficient 600mm bolt on propeller
- Strong propeller protection leg



Under Slat Agitator

MIXERS

## System advantages

- Simple proven agitation for pits and underslat areas
- Low capital investment cost
- Proven design and operation for over 20 years
- Manoeuvrable and flexible
- Low maintenance requirement

# Lagoon Farmer Mixer

The Lagoon Mixer is the ideal machine to mix smaller capacity lagoons, allowing aggressive mixing action with a minimum input of power. This machine is easily operated with all machines having a hydraulic top link allowing accurate positioning of the machine in the slurry. Lagoon Mixers are built to last with the machine being fully galvanised and strengthened with a heavy duty box section placed underneath the mixer tube.

## Key Features

- Versatile range available 4.6m (15ft), 6.1m (20ft) or 7.6m (25ft)
- Fully galvanised metal work for extended product life
- Low power requirement from 45-52kW (60-70Hp)
- Robust 50mm (2") drive shaft and bearings
- Sturdy headstock designed to withstand lateral forces
- Heavy duty main tube protection bar
- Low maintenance wet run fluted bottom bearing
- Super efficient 600mm bolt on propeller
- Strong propeller protection leg



Lagoon Farmer Mixer

## System Advantages

- Simple proven agitation for small to medium sized lagoons
- Low capital investment cost
- Proven design and operation for over 20 years
- Manoeuvrable and flexible around lagoons and store
- Low maintenance requirement



# Lagoon FarmerPlus Mixer

The FarmerPlus Lagoon Mixer has been designed to suit the progressive farmer, with the new propeller shape and larger diameter, we have produced an aggressive mixing action with the input power of 100-120hp required.

## Key Features

- Versatile range available 4.6m (15ft), 6.1m (20ft) or 7.6m (25ft)
- Fully galvanised metal work for extended product life
- Low power requirement from 75-90kW (100-120Hp)
- Robust 50mm (2") drive shaft and bearings
- Sturdy headstock designed to withstand lateral forces
- Heavy duty main tube protection bar
- Low maintenance wet run fluted bottom bearing
- Super efficient 650mm bolt on propeller
- Strong propeller protection leg

## System Advantages

- Simple proven agitation for small to medium sized lagoons
- Low capital investment cost
- Proven design and operation for over 20 years
- manoeuvrable and flexible around lagoons and underground tanks
- Low maintenance requirement



Lagoon FarmerPlus Mixer

# Lagoon Contractor Mixer

The Contractor Mixer is the ultimate propeller mixer designed to provide intensive propeller mixing action for the contractor or larger farm. The depth control of this machine is by a double set of hydraulic rams, allowing mixing at different depths of the lagoon giving a better slurry consistency. Fully galvanised heavy duty box section chassis gives this machine unrivalled strength and life expectancy.



Lagoon Contractor Mixer

## Key Features

- Versatile range available 7m (23ft), 8m (26ft), 9.5m (31ft) or 12m (39ft)
- Fully galvanised metal work for extended product life
- Heavy duty frame c/w 15 degree angle assisting with lagoon access
- Precise depth control via twin hydraulic cylinders
- Strong 55mm drive line with five bearing assemblies
- Unique bearing slurry seal protection
- Special cassette bearing and drive shaft wear collar
- Powerful 700mm bolt on mixing auger
- Adjustable hardox auger shear bar
- Robust auger protection cow horn

## System Advantages

- Simple proven agitation for medium sized lagoons
- Proven design and operation for over 10 years
- Manoeuvrable and flexible around lagoons and store
- Replaceable wear parts
- Ability to cope with longer fibre



# Lagoon Mega Mix Trailed Pump

## Key Features

- Versatile range available 6.1m (20ft) or 7.5m (25ft)
- Fully galvanised finish for extended product life
- Low power requirement 90-112 kW (120-150 hp)
- Robust 50mm (2") drive shaft & bearings
- Sturdy headstock to withstand lateral forces
- Heavy duty main tube protection bar
- Low maintenance wet run fluted bottom bearing
- High output induction impellor, 12.5 m<sup>3</sup>/min (3300 gal/min)
- 300° Hydraulic spout rotation c/w hydraulic control
- Cow horn impellor leg protection

## System Advantages

- Simple prove agitation for medium sized lagoons
- Proven design and operation for over 5 years
- Manoeuvrable and flexible around lagoons and store
- Replaceable wear parts
- Ability to cope with longer fibre



Kestrel Lagoon Mixer

# Mega Mix Lagoon Pump

**Designed to benefit from the great mixing capacity of the Mega Mix whilst having the facility to pump out of the lagoon with the same machine via a 6" or 8" side discharge pipe. This provides the user with great benefits, offering several possibilities for filling open top tankers, pumping to other lagoons and priming umbilical pumps, all from one machine.**

## Key Features

- Versatile range available from 7m (23ft) to 12m (39ft)
- Fully galvanised metal work for extended product life
- Heavy duty frame c/w 15-degree angle assisting with lagoon access
- Precise depth control via twin hydraulic cylinders
- Strong 55mm drive line with at least five bearing assemblies
- Unique bearing slurry seal protection
- Special cassette bearing and drive shaft wear collar
- High output induction impellor, 18m<sup>3</sup>/min (4000 gal/min)
- 300° Horizontal and 60° vertical hydraulic spout rotation c/w hydraulic control
- Maintenance friendly central bearing grease bank
- Endurance hardox sand kit wear and seal kit option available for increased durability in slurry containing sand



Mega Mix Lagoon Pump

## System Advantages

- Powerful solution for large lagoons
- Proven design and operation for over 10 years
- Manoeuvrable and flexible around lagoons and store
- Replaceable wear parts
- Adaptable for liner and covers

# Lagoon Mega Mix Trailed Pump

The Trailed Mega Mix has been developed for lagoons with longer banks, which require a deeper reach into the lagoon without needing a lot of horsepower to lift on 3-point linkage.

This machine uses the same quality components and high class engineering as the Mega Mix and the Mega Mix Lagoon Pump; it has hydraulically operated wheels and hydraulic stabiliser legs.

## Key Features

- Versatile range available from 12.5m (41ft) to 20m (65.6ft)
- Fully galvanised metal finish for extended product life
- Heavy duty centre frame design
- Robust hydraulic depth control axle
- Strong 55mm drive line with seven bearing assemblies
- Unique bearing slurry seal protection
- Special cassette bearing and drive shaft wear collar
- High output induction impellor, 18m<sup>3</sup>/min (4000 gal/min)
- Simple mix or pump flexibility
- Maintenance friendly central bearing grease bank
- Endurance hardox wear kit and seal kit option available for increased durability in slurry containing sand

## System Advantages

- Powerful solution for large lagoons
- Proven design and operation for over 10 years
- Manoeuvrable and flexible around lagoons and store
- Replaceable wear parts
- Adaptable for liner and covers



Lagoon Mega Mix Trailed Pump

# Ultra Mix



Ultra Mix

## Key Features

- Fully galvanised metal work for extended product life
- Heavy duty frame c/w 15-degree angle assisting with lagoon access
- Precise depth control via twin hydraulic cylinders
- Strong 55mm drive line with seven bearing assemblies
- Unique bearing slurry seal protection
- Special cassette bearing and drive shaft wear collar
- High output induction impellor, 18m<sup>3</sup>/min (4000 gal/min)
- 300° hydraulic spout rotation
- 60° hydraulic spout vertical adjustment
- 12" side discharge pipe
- Twin 8" outlet drum

## System Advantages

- Available in 14m (46ft)
- 199-221 kW (270-300 hp) power required
- 6,500m<sup>3</sup> (1,400,000 gal) Mix from 1 point
- PTO drive shaft c/w shear bolt
- 15° Frame angle
- Twin hydraulic ram depth control (1x SA)
- 55mm HD Drive shaft
- 4 Blade impeller
- Intake auger



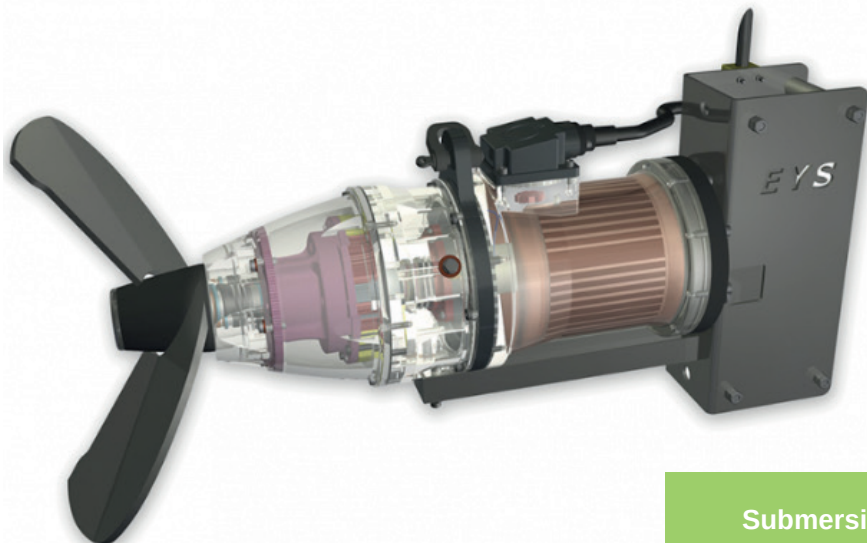
# Submersible Mixer

## Key Features

- Flexible manual, timer or float switch control system
- Soft start, power efficient motors 7.5 kW (10Hp) to 18.5kW(24Hp)
- Safety thermosensor in the windings
- Mixer rating IP68 c/w 10m of cable
- High capacity from 3800 to 7500 m<sup>3</sup>/hr (13900 to 26,500 gal/min)
- Corrosion resistant stainless steel mixer shaft (1450 rpm)
- Mechanical seal protection with leak sensor
- Stainless steel 3 blade impellor

## System Advantages

- Automatic slurry mixing management
- Low 3 Phase electric running cost
- Minimum noise disturbance
- Low health & safety risk (no pto shaft ...)
- Adaptable installation in above or below ground tanks
- Versatile within an automated system (separator)



Submersible Mixer



# FarmerPlus Bobbin Reeler

Available with carrying capacity of 800m (4" Hose), the FarmerPlus Bobbin Reeler (FBR) can be mounted at the front or rear of a tractor, or in a piggy-backing situation. Constructed around a robust 80mm box section frame, the FBR comes with a 3 point linkage.

Reeler drive comes courtesy of a hydraulic drive motor and heavy duty 1" chain driven.

## Key Features

- 800m 4" or 600m 5" capacity (Storz fittings)
- Robust 5mm thick 80mm box section construction
- Fully galvanised (inc powder coated side panels)
- Versatile heavy duty storth or standard "A" frame kit (optional)
- Robust 1" chain drive line system
- Safe dual hydraulic relief valve protection
- Strong 55mm bobbin bearings
- Flexible open bobbin trough design
- Adaptable bobbin dividers (optional)



FarmerPlus Bobbin Reeler

## System Advantages

- Economical, strong entry level reeler
- Compact design for maximum front linkage visibility
- Ideal for quick handling of drag hose
- Flexibility to be used front or rear, especially with "A" frame option(s)
- Piggy back capability
- Simple visible drive line with clear adjustment
- Strong reliable performance

# Contractor Bobbin Reeler



Contractor Bobbin Reeler

## Technical Details

- 1000m 4"/5" capacity
- Robust 5mm thick engineered profile construction
- Fully galvanised corrosion protection (inc powder coats side panels)
- Standard female "A" frame linkage, heavy duty or standard type
- Low maintenance robust gearbox drive
- Safe dual hydraulic relief valve protection
- Strong 55mm bobbin bearing
- Open bobbin trough design
- Safety bonnet guard (optional)
- Versatile tool box (optional)

## System Advantages

- High capacity front reeler for large tractors
- Compact design for maximum front linkage visibility
- Ideal for quick handling of drag hose
- Flexibility to be used front or as a rear piggy back
- Low maintenance gearbox drive c/w frame guard
- Strong reliable performance



# ContractorPlus Drop Bobbin Reeler

Developed to provide optimum operating comfort, improved piggy back reel switch over speeds and system flexibility. ContractorPlus Bobbin Reelers hold interchangeable drop out bobbins, meaning operators reeling can safely do all the reeling in from the front, while using the rear for reeling out and storage.

One frame can serve several spools. The spool is rotated by hydraulic motors and heavy duty twin sided gear drive, giving a positive and controlled recovery and laying out of the hose with no over-run.

## Key Features

- 1000m 4" or 800m 5" capacity ( fittings)
- Robust 5mm thick engineered profile construction
- Fully galvanised corrosion protection
- Quick coupling via Standard Female "A" frame linkage
- Single "ECO" or twin "PRO" drive motors
- Safe dual hydraulic relief valve protection
- Heavy duty engineered drive gears

ContractorPlus Drop Bobbin Reeler

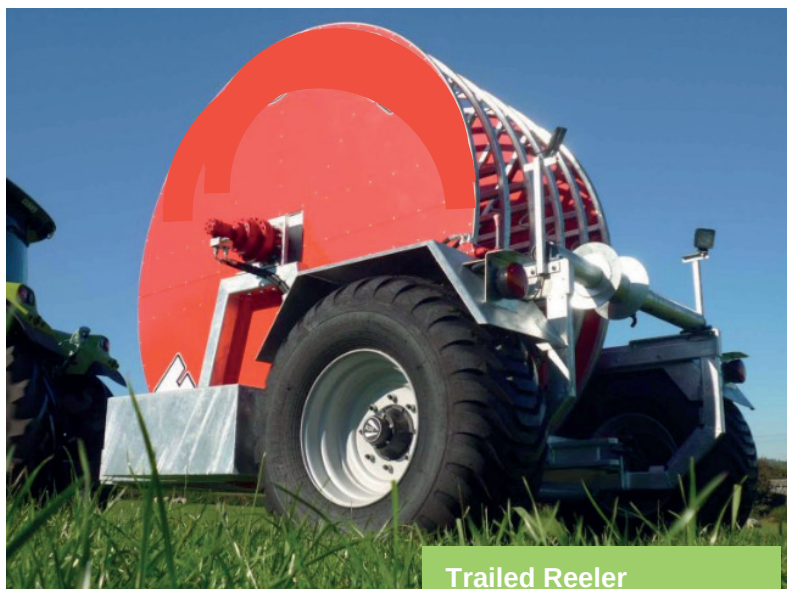


## System Advantages

- Compact design for maximum front linkage visibility
- Ideal for quick handling of drag hose
- Flexibility to be used front or as a rear piggy back
- Easy piggy back bobbin swapping
- Multiple bobbin reels per frame
- Strong reliable performance

# Trailed Reeler

Ideal for large farmers or contractors offering long distance slurry handling, Heavy Duty Trailed Reelers are fully galvanised and available in 1500m or 2000m spools holding 4" or 5" hose (+6" available onrequest)



Trailed Reeler

## Key Features

- 1500m or 2000m capacity for 4 or 5" hose
- 1200m or 1600m capacity for 6" hose
- Robust 5mm thick box section construction
- Fully galvanised corrosion protection
- Low maintenance robust gearbox drive line
- Safe dual hydraulic relief valve protection
- Strong 55mm bobbin bearing
- Flexible open bobbin trough design
- Guaranteed Guide roller & tension roller
- LED lights

## System Advantages

- Simple large hose quantity hose storage-transport
- Minimal tractor and operator road fatigue
- Low risk of hose complication
- Flexible coupling choice. Bauer-Storz or Shug
- Low maintenance gearbox drive
- Strong reliable performance
- Large flotation tyres for weight distribution in field

# Mounted Reelers

Designed to take the hard work out of hose laying and retrieval, Mounted Reelers build on the Bobbin Reeler’s solid foundations with full machine galvanising and heavy duty construction as standard.

A powerful hydraulic gearbox drive is at the heart of the machines with cross line relief protection and optional rotary valve control, giving maximum efficiency, long maintenance and heavy duty construction as standard.

The dual purpose mounting design allows the Mounted Reelers to be used either directly with a tractor 3-point linkage or as part of a piggy-back system using a HD “A” Frame. Also available with a Standard Female “A” Frame (no 3-point linkage brackets).

Rear mounted rotary speed control and working light kit options are available for those seeking to improve machine durability. Extra storage is also available on request via a tool box option.

### Key Features

- Robust build quality
- Fully galvanised c/w powder coated side panels
- Heavy Duty Female A Frame & 3-point linkage
- Robust hydraulic gearbox drive
- 55mm reel stub shaft diameter
- Full width hub trough
- Hose guide roller
- LED lighting kit
- Heavy Duty Male A Frame option
- Rotary speed control valve option
- Working light kit option
- Tool box option



ContractorPlus Drop Bobbin Reeler

### System Advantages

- Simple hose storage and transport
- Low risk of hose complication
- Organised traceable hose storage
- Flexible coupling choice. Bauer-Storz or Shug
- Low maintenance gearbox drive
- Strong reliable performance

Model	Weight	Mounting	Reeler Capacity	Hydraulic	Width (m)	Height (m)
Reeler 1000	740kg	HD female A Frame Or	1000m	1 DA	2.00m	1.90m
Reeler 1200	780kg	Standard female A Frame	1200m	1 DA	2.15m	1.95m







Agent Stamp



Research Innovation  
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**WINNER  
2024**

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