

# STORTH

EXPERTS IN SLURRY MANAGEMENT



MIX IT



Storth have worked hard with the end user to develop a wide range of Slurry Mixers to aid Slurry Management on every farm allowing us to provide the right mixing solution for your farm.

## Slurry Mixing Solutions

Specialist Manufacturers of Slurry Handling Equipment



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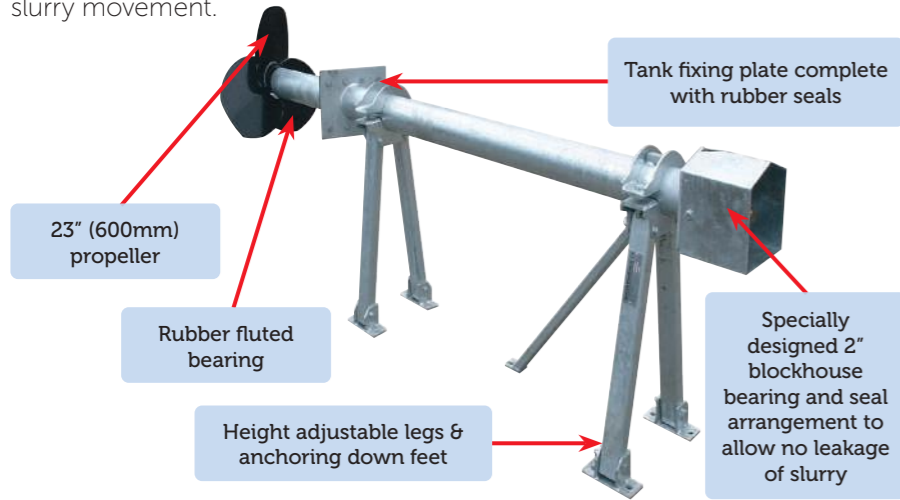
Manufactured in the UK

[www.storthmachinery.co.uk](http://www.storthmachinery.co.uk)



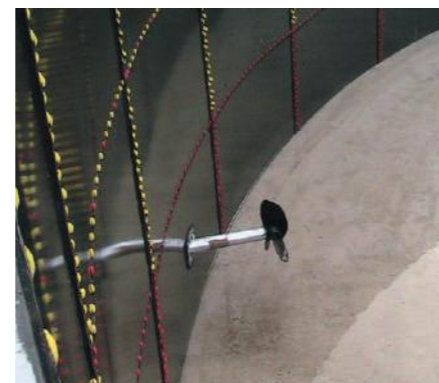
# Tank Wall Mixer PTO or Electric

This machine 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.



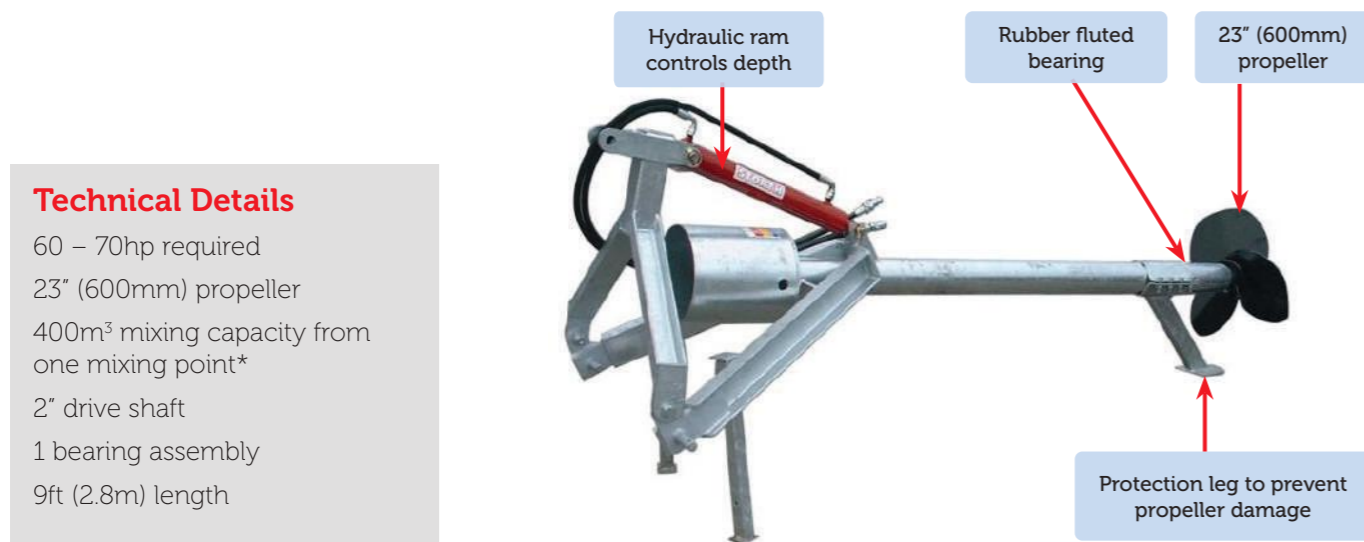
### Technical Details

- 60 – 70hp required
- 23" (600mm) propeller
- 1200m<sup>3</sup> mixing capacity from one mixing point\*
- 2" drive shaft
- 2 bearing assemblies
- 3ph electric models available



# Under Slat Agitator

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

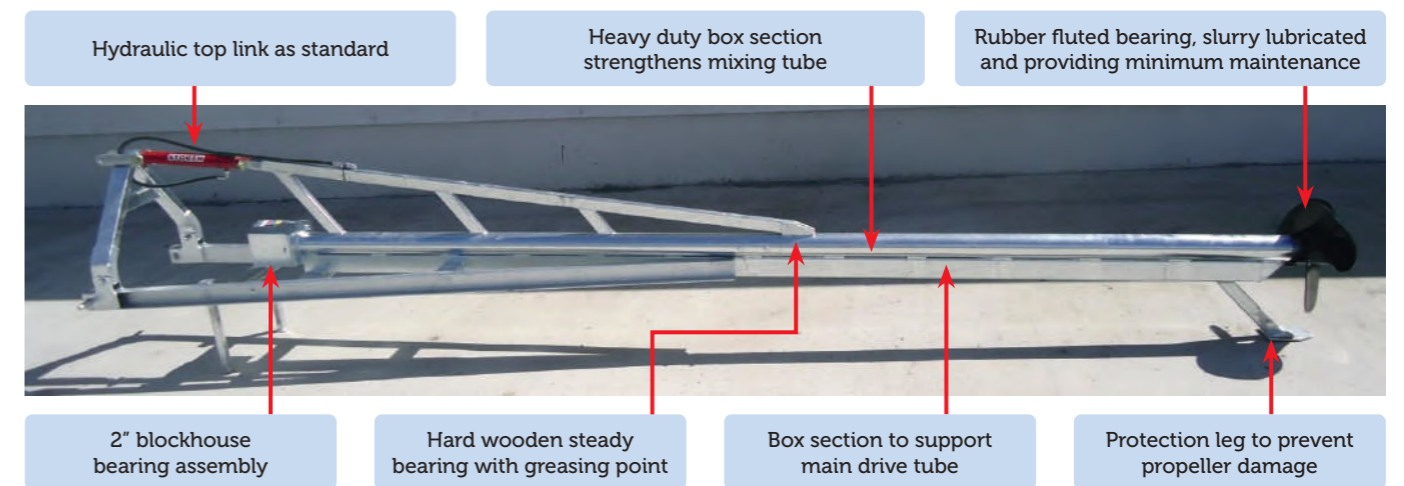


### Technical Details

- 60 – 70hp required
- 23" (600mm) propeller
- 400m<sup>3</sup> mixing capacity from one mixing point\*
- 2" drive shaft
- 1 bearing assembly
- 9ft (2.8m) length

# Farmer Lagoon Mixer

The Storth 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. Storth 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.



### Technical Details

- 60 – 80hp required
- 23" (600mm) propeller
- 1500m<sup>3</sup> mixing capacity from one mixing point\*
- 2" drive shaft
- 3 bearing assemblies
- 540rpm
- Shear bolt protection on PTO shaft supplied

### Models Available

- 15ft (4.8m) length
- 20ft (6.1m) length
- 25ft (7.6m) length



### Pivoting Mixer

Available to allow access into smaller tanks and under slats. Built to the same specification as the Lagoon Mixer.

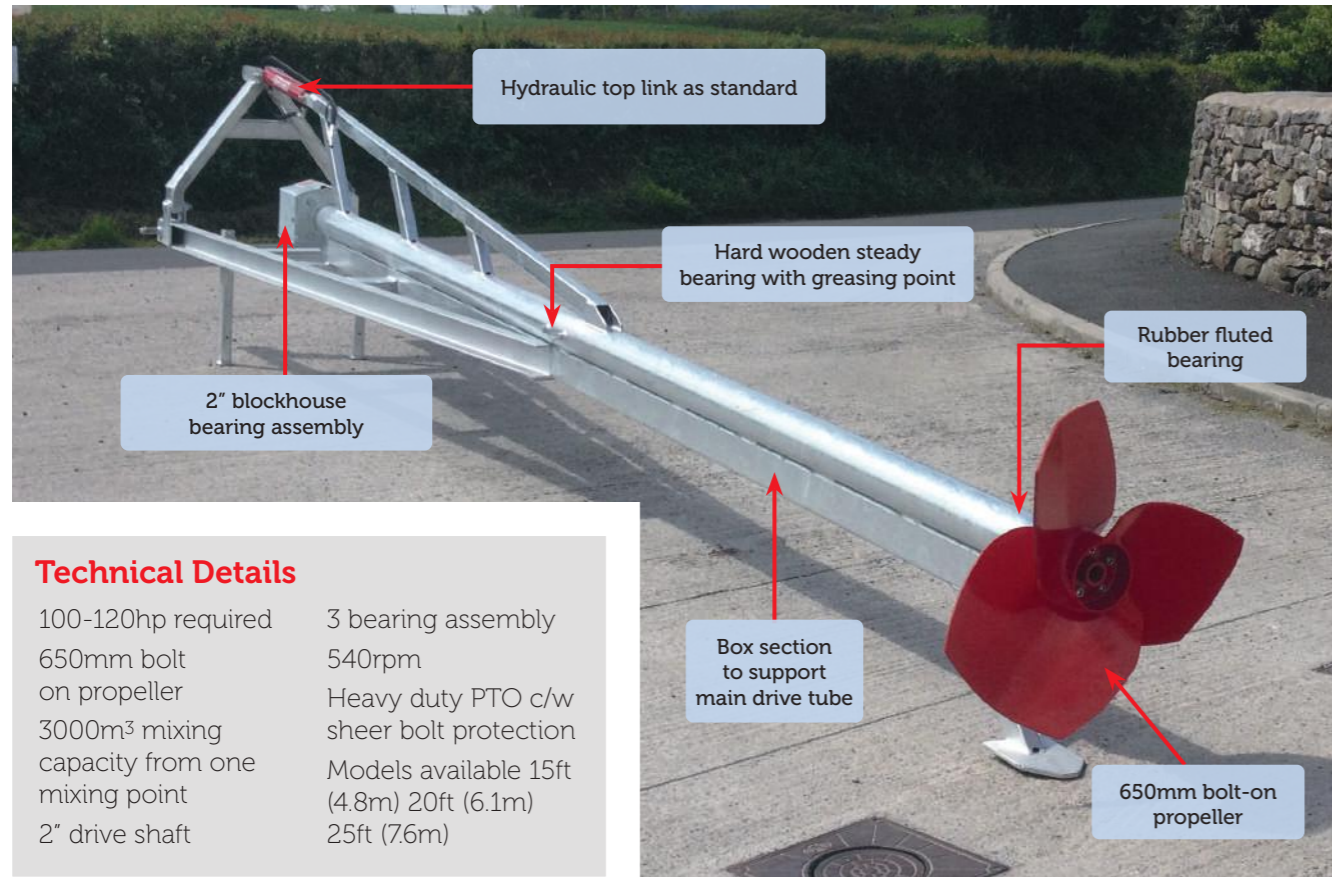
### Models Available

- (Pivoting Mixer)
- 12ft (3.6m) length
- 15ft (4.8m) length
- 20ft (6.1m) length



# FarmerPlus Lagoon Mixer

The Storth Heavy Duty 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.

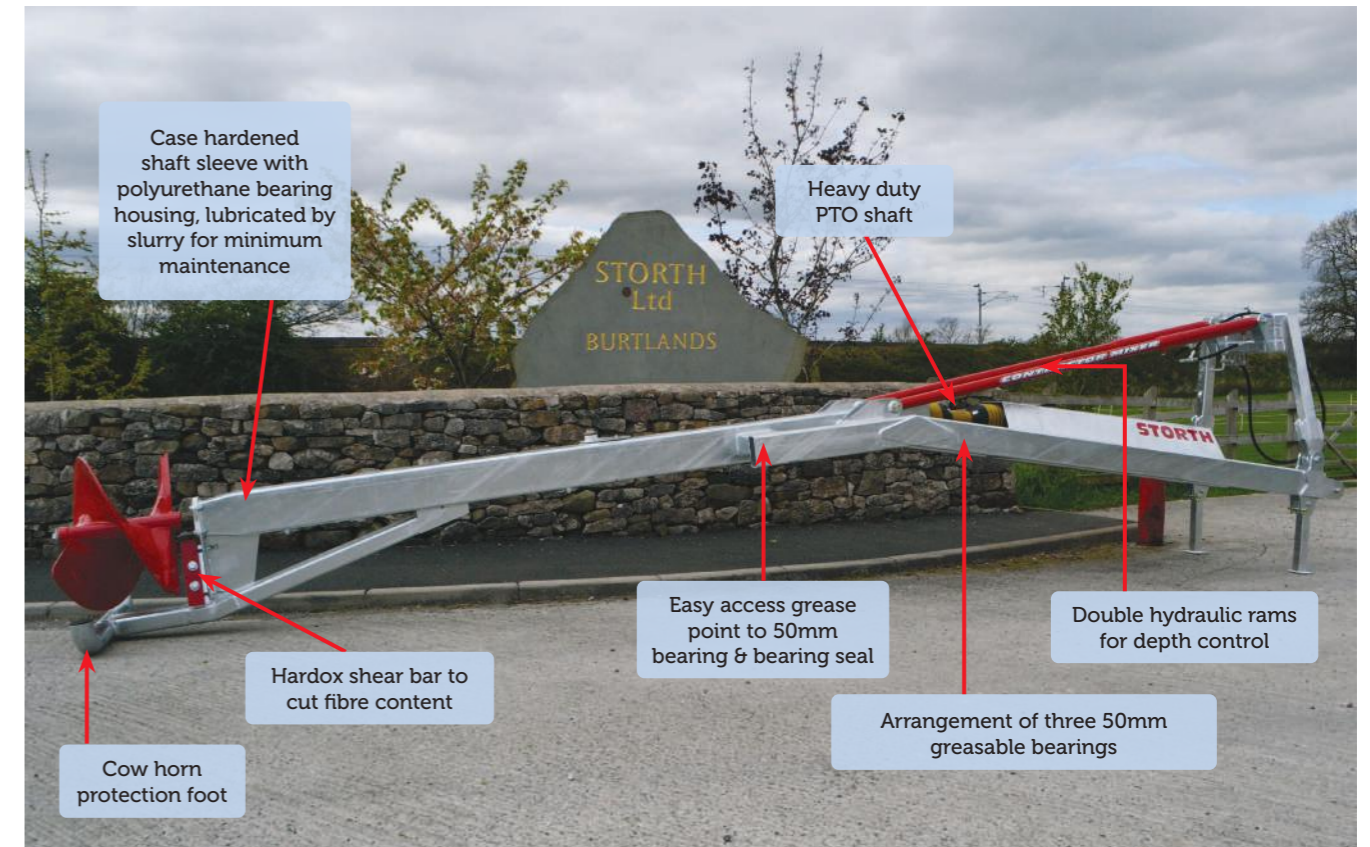


### Technical Details

100-120hp required	3 bearing assembly
650mm bolt on propeller	540rpm
3000m <sup>3</sup> mixing capacity from one mixing point	Heavy duty PTO c/w shear bolt protection
2" drive shaft	Models available 15ft (4.8m) 20ft (6.1m) 25ft (7.6m)

# Contractor Mixer

The Storth 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.



### Technical Details

120hp required

600 x 600mm standard propeller

4000m<sup>3</sup> mixing capacity from one mixing point\*

55mm drive shaft

Double hydraulic rams for depth control

5 bearing assemblies

540rpm

Shear bolt protection on PTO shaft supplied

### Models Available

22ft (7.0m) length - Mixing depth of 4.5m

26ft (8.0m) length - Mixing depth of 5.5m

31ft (9.5m) length - Mixing depth of 7.5m

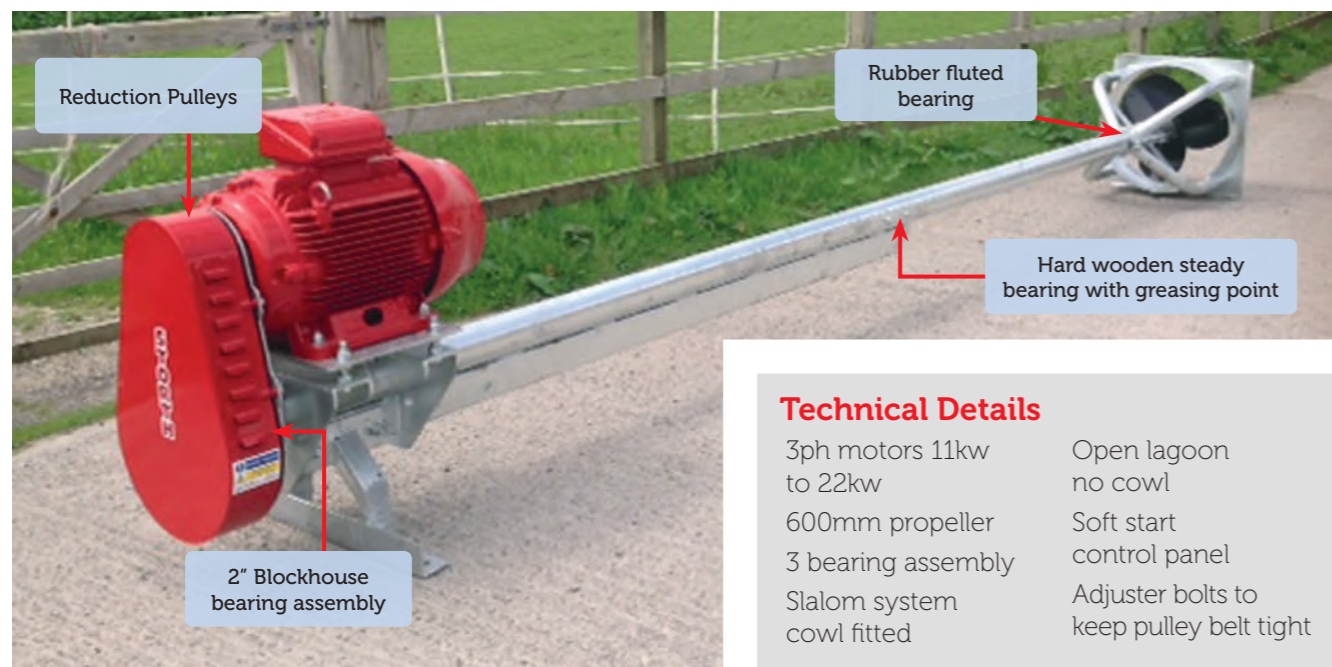
39ft (12.0m) length - Mixing depth of 7.5m

### Options

700 x 600mm propeller requires 150hp



# Electric Mixer



### Technical Details

3ph motors 11kw to 22kw	Open lagoon no cowl
600mm propeller	Soft start control panel
3 bearing assembly	Adjuster bolts to keep pulley belt tight
Slalom system cowl fitted	



# Lagoon Master PTO or Electric

The Storth Lagoon Master has been designed to be a permanent fixture in an open or a covered lagoon. Mixing of the lagoon can be controlled by a handle at the PTO end to divert the slurry to different parts of the lagoon. This machine requires regular use to prevent crust from building up on top of the lagoon.

### Technical Details

- 22kw 3ph motor
- 100hp required (PTO version)
- 600 x 300mm standard propeller
- 5000m<sup>3</sup> mixing capacity from one mixing point\*
- 55mm drive shaft
- Oil filled driveline tube
- Maintenance free roller bearings
- Soft start control panel
- 540rpm

### Models Available

- 36ft (11m) length
- 52ft (16m) length
- Model required is dependent on the angle of lagoon bank



# Hydraulic Kite 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. Standard models are built to suit telehandlers. We can also attach brackets to suite excavators. In the propeller head we have a unique three seal system as protection to the hydraulic motor. This allows no slurry to enter the hydraulic system and cause damage. 3/4" hydraulic hoses are used on the Hydraulic Kite Mixer with a pressure relief valve set at a maximum of 200bar to protect the machine from any damage.

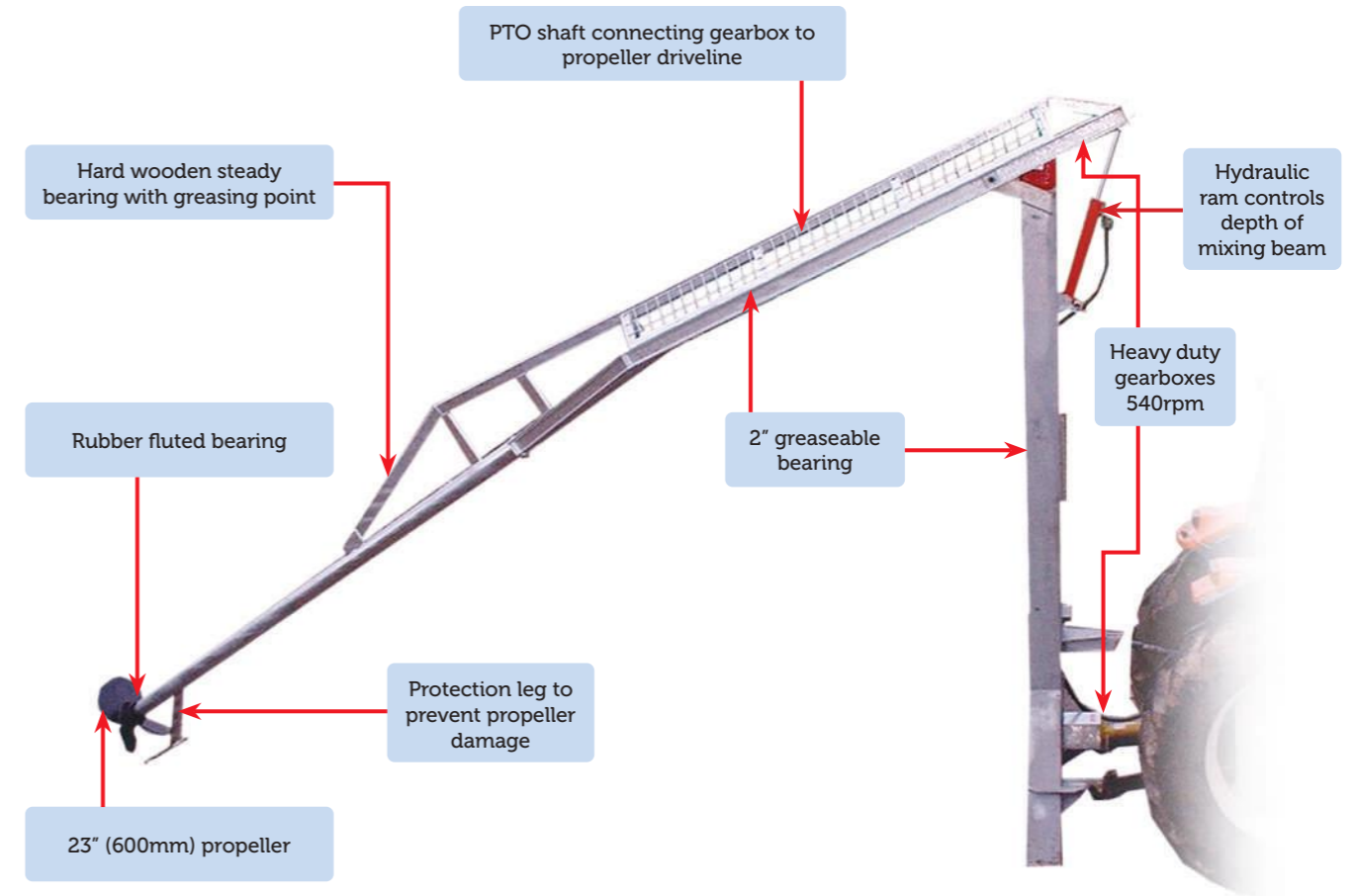
### Technical Details

- 5m machine
- Minimum 100L per/min
- Maximum 200L per/min
- Motor size 400cc rev
- 900mm propeller
- 3 seal protection system
- 3/4" hydraulic hoses
- 200bar pressure relief valve fitted
- 275rpm at 110L per/min
- 400rpm at 160L per/min
- 475rpm at 190L per/min



# Tankmaster

The Tankmaster 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.



### Technical Details

- 60 – 80hp required
- 23" (600mm) propeller
- 3000m<sup>3</sup> mixing capacity from one mixing point\*
- 2" propeller drive shaft
- 4 bearing assemblies
- 540rpm gearboxes

Vertical Column		Top Beam	
Feet	Metres	Feet	Metres
10	3.1	25	7.6
12	3.7	25	7.6
14	4.3	25	7.6
16	5.0	25	7.6
16	5.0	30	9.2
20	6.1	30	9.2





# Mega Mix Lagoon Pump

Storth have designed this machine 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" 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.



**Models Available**  
23ft (7.0m) length – Mixing depth of 4.5m  
26ft (8.0m) length – Mixing depth of 5.5m  
31ft (9.5m) length – Mixing depth of 7.5m  
**BESPOKE MODELS AVAILABLE ON REQUEST**

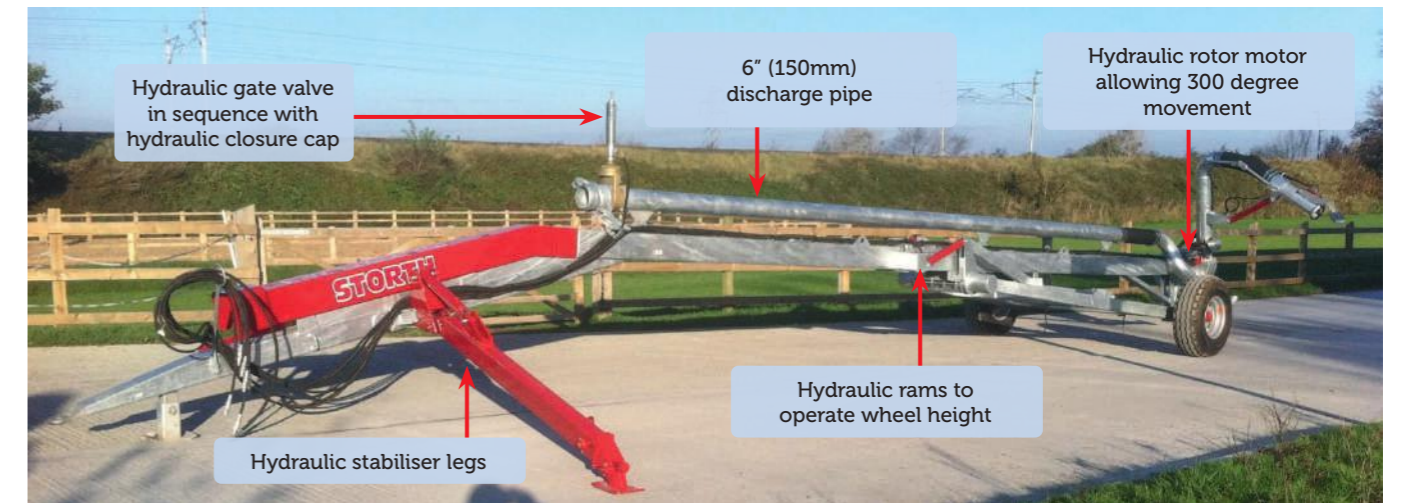


**Technical Details**  
55mm drive shaft  
6" (150mm) or 8" (200mm) discharge pipe  
Minimum 130hp required  
1000rpm  
4,500 gallons (20,457L) output per minute mixing capacity  
10,000m<sup>3</sup> mixing capacity from one point\*  
6 greasable bearing assemblies on a 9.5m machine  
9.5m machine weighs 1500kg  
2.5m extension frame can be added to all models

# Trailed Mega Mix Lagoon Pump

The final machine in the Mega Mix range, this machine has been developed for lagoons with steeper 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; this has hydraulically operated wheels and hydraulic stabiliser legs.



**Technical Details**  
55mm drive shaft  
Minimum 120hp required  
1000rpm  
4,500 gallons (20,457L) output per minute mixing capacity  
10,000m<sup>3</sup> mixing capacity from one point\*  
Hydraulic stabiliser legs  
Hydraulic rams operating wheel height

**Models Available**  
41ft (12.5m) length  
56ft (17.0m) length  
**BESPOKE MODELS AVAILABLE ON REQUEST**

# Mega Mix Lagoon Pump Complete with hydraulic operated tank filler kit

All Mega Mix models can be fitted with the tanker hydraulic filler kit to the front end of the tractor. There is a ram which moves from side to side and a ram to move it up and down giving full control of where the filler pipe is located in the tanker. The pipe over the tractor is aluminium pipe so when you are finished, it is very light to take off for transport.





# Mega Mix Lagoon Pump Options



**Transport Trailer**

Transport trailers are fully galvanised and can be adapted to carry fill pipes and flexi pipes at the customer's request.

## Tanker Filler Pipe Options



## Wheel & Cage Kit

We have developed a wheel protection kit suitable for lined lagoons and for covered lagoons. We have also developed a cage protection kit. All extras are available to the Mega Mix range.



# 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.

Fully galvanised heavy duty box section frame with 3 leg mounting points to be bolted to a concrete pad on the outside of the tank.

Control panel which allows all hydraulic movement to be controlled by a remote control.

Large heavy duty gearboxes are used throughout, two at the top of the machine & one at the bottom.

Hydraulic ram allows for full movement up and down.

The top jetter nozzle is complete with a hydraulic shut off ram to allow bottom agitation.

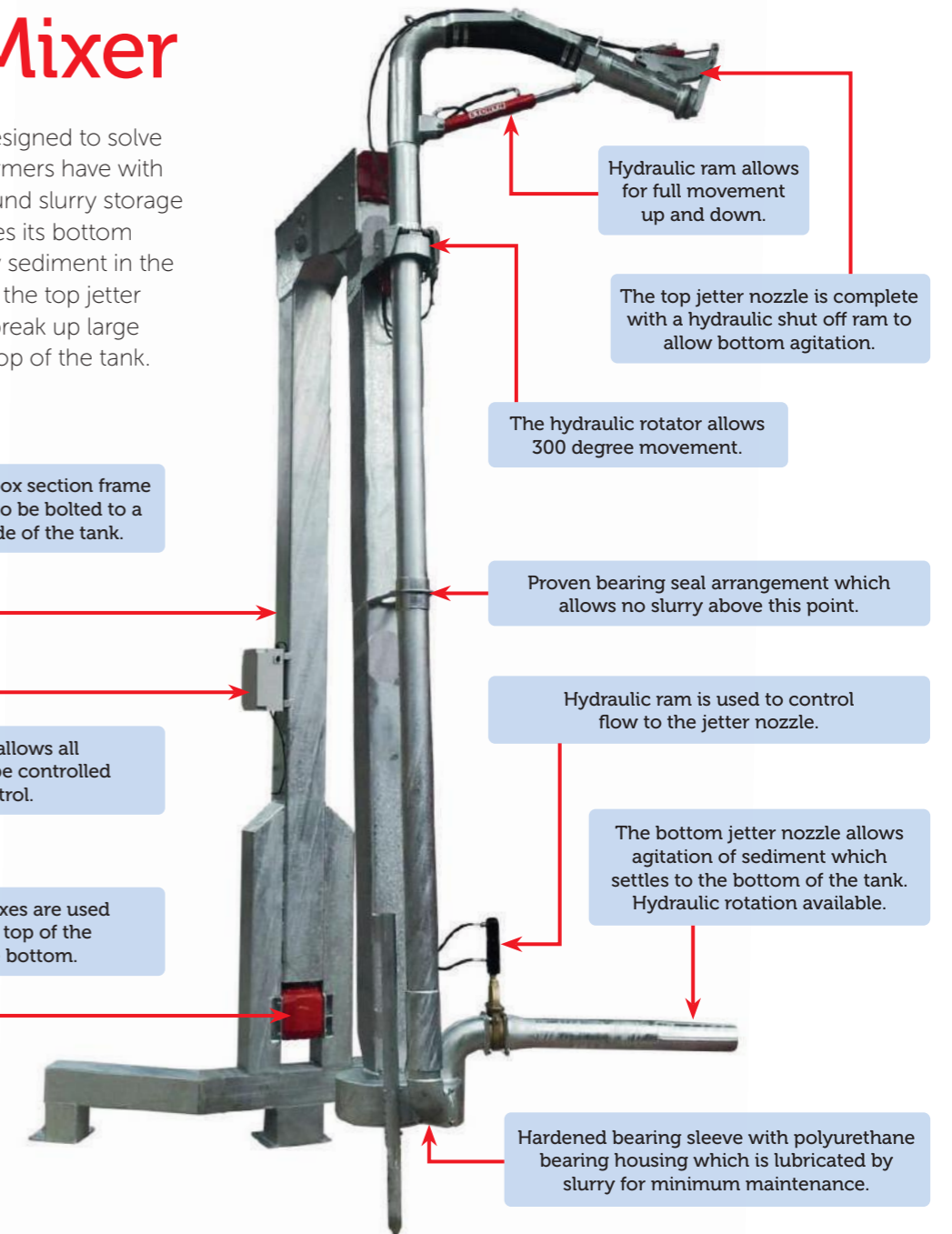
The hydraulic rotator allows 300 degree movement.

Proven bearing seal arrangement which allows no slurry above this point.

Hydraulic ram is used to control flow to the jetter nozzle.

The bottom jetter nozzle allows agitation of sediment which settles to the bottom of the tank. Hydraulic rotation available.

Hardened bearing sleeve with polyurethane bearing housing which is lubricated by slurry for minimum maintenance.



### Technical Details

- 55mm drive shaft
- Minimum 150hp required
- 540rpm
- 8,000m<sup>3</sup> mixing capacity from one point\*
- 4,000 gallons (18,154L) output per minute mixing capacity
- 3 greasable bearing assemblies which can be greased from the outside of the tank

### Models Available

- 10ft (3m) Vertical Column with 10ft (3m) Interior Pump
- 12ft (3.7m) Vertical Column with 12ft (3.7m) Interior Pump
- 16ft (5m) Vertical Column with 16ft (5m) Interior Pump
- 20ft (6.1m) Vertical Column with 20ft (6.1m) Interior Pump



Models are also available with the Interior Pump longer to suit tanks that have base levels below the outside ground level. 3-Point Linkage models are available to allow movement around the tank.



# Hawk & Trailer

The Storth Hawk Mixer and trailer is designed to use in two options. The machine can stay attached to the trailer, when mixing and pumping hydraulic legs fold down to hold a stable position. Also, we can detach the Hawk Mixer from the trailer and use the machine on the tractor which gives great flexibility around the storage tank.



# Storage Tank Mixing Options

## Tank Wall Mixer

- Available for steel or concrete tanks
- 540 RPM PTO or 22kW Electric drive
- 45-52kW (60-70hp) – 600 mm prop
- 1,200m<sup>3</sup> (260,400 gal) mixing capacity (50' diameter)
- 75-90kW (100-120hp) – 650mm prop
- 1,365m<sup>3</sup> (300,000 gal) mixing capacity (70' diameter)
- Fixed installation



## Tank Master Mixer

- Available for steel or concrete tanks
- 540 RPM PTO drive
- 60-75kW (80-100hp) – 600 mm prop
- 3,000m<sup>3</sup> (660,000 gal) mixing capacity from one position
- Models from 2.1m (7') to 7.0m (23')
- Tractor mounted, mobile



## Harrier Tank Wall Mixer

- Available for steel or concrete tanks
- 1000 RPM PTO drive
- 120 – 150kW (160 - 200hp)
- 8,000m<sup>3</sup> (1,760,000 gal) mixing capacity from one position
- Twin jettors for upper & lower tank sediment
- Fixed installation



## Hawk Tank Mixer

- Available for steel or concrete tanks
- 1000 RPM PTO drive
- 120 – 150kW (160 - 200hp)
- 8,000m<sup>3</sup> (1,760,000 gal) mixing capacity from one position
- Twin jettors for upper & lower tank sediment
- Tractor mounted, mobile



## Kite Mixer

- Available for steel or concrete tanks
- Available for lagoons or under slats
- Hydraulic drive (3/4")
- Minimum 100 l/min, Maximum 190 l/min
- 900mm prop
- 3,000m<sup>3</sup> (660,000 gal) mixing capacity from one position
- Telehandler mounted, mobile









# STORTH

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