

STORTH

EXPERTS IN SLURRY MANAGEMENT



PUMP IT

Storth have worked hard with the end user to develop a suitable range of Slurry Pumps which will aid Slurry Management on every farm allowing us to provide the right Pump solution every time.

High Performance Slurry Pumps

Specialist Manufacturers of
Slurry Handling Equipment



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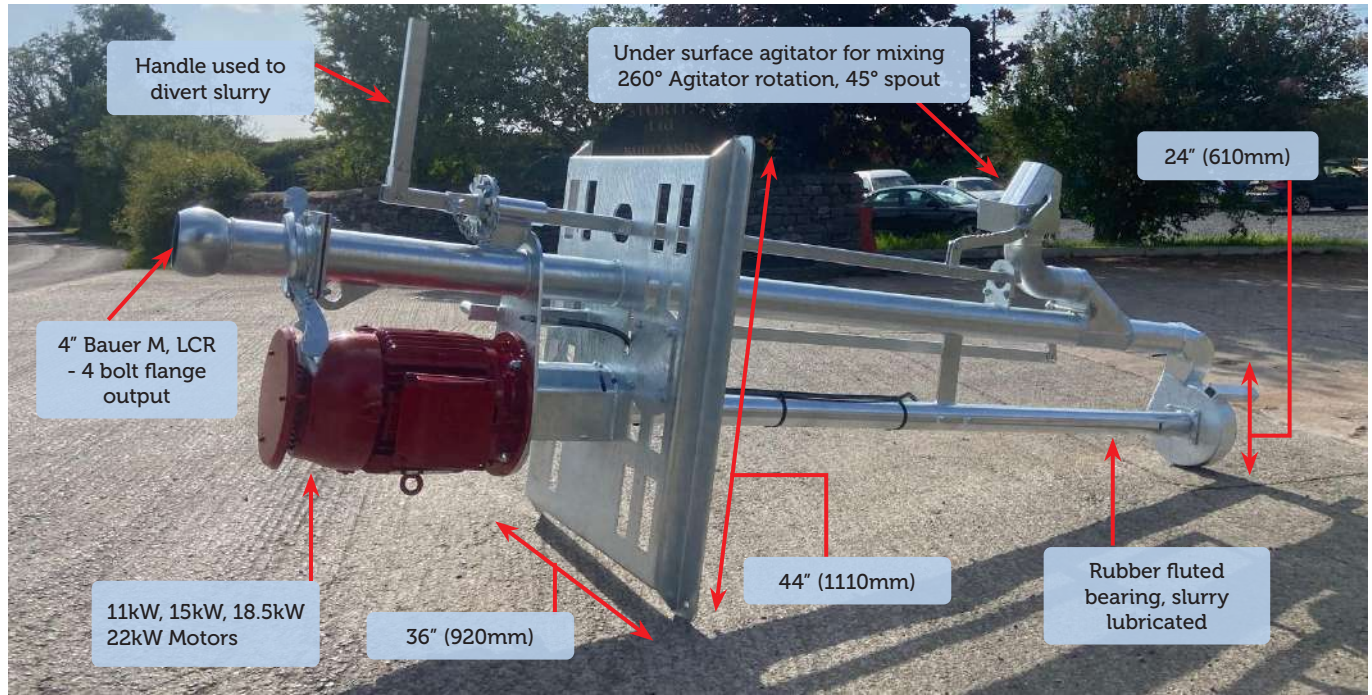


Manufactured in the UK

www.storthmachinery.co.uk

Electric Pumps

Storth have developed a range of electric driven pumps to enable the farmer to manage slurry automatically without the use of a tractor. Storth Electric Pumps all require 3 phase electric and are available in different motor sizes, dependent on the application. Our Electric Pumps can be set up on float switches to allow the pump to start and stop automatically when the slurry reaches a certain level.



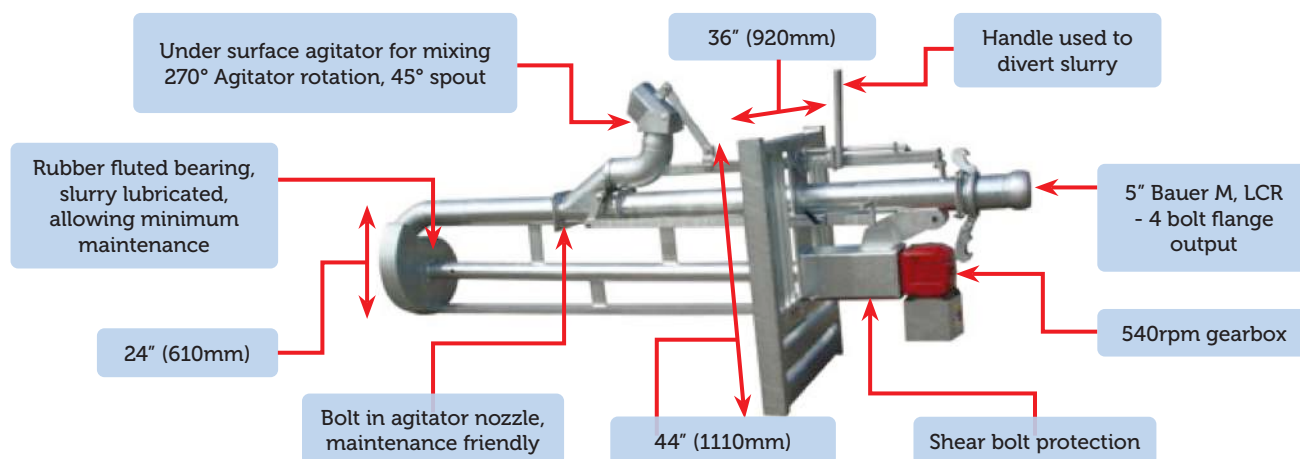
Technical Details

- Lengths available from 5ft (1.5m) - 10ft (3m)
- 3 phase electric is required
- 4" (100mm) discharge pipe
- Fully galvanised
- 11kW, 15kW, 18.5kW 22kW Motors
- 4" Bauer M, LCR - 4 bolt flange output (PF/454)
- 5" & 6" outlet options available
- Pump motor speed 1450 RPM
- Min access hole 560mm x 650mm (22" x 26")
- Floor frame 920mm x 1110mm (36"x 44")
- 4 blade impeller
- Rubber fluted bottom bearing
- 260° agitator rotation, 45° spout
- Bolt on fork pockets available
- Float switch options
- Control Panel options available

Lengths available from 5ft (1.5m) up to 10ft (3m).

Superjet Static 5"

The Storth Superjet Static (no agitator) Pump is a PTO driven static pump, ideal for use in a reception tank to pump slurry to the slurrystore. The heavy duty, fully galvanised frame ensures long-lasting performance from this machine. Slurry is delivered directly from the impeller drum to the male bauer discharge fitting (as per cover page).



The Superjet Static (with agitator) Pump is ideal for use when slurry needs agitating in the reception tank before pumping it into the slurrystore. This pump is fitted with an under surface agitator to the main delivery tube to divert the slurry, causing a high pressure jet agitation. Moving a handle at the pump head diverts slurry up to the male bauer discharge fitting (standard) (as per cover page).



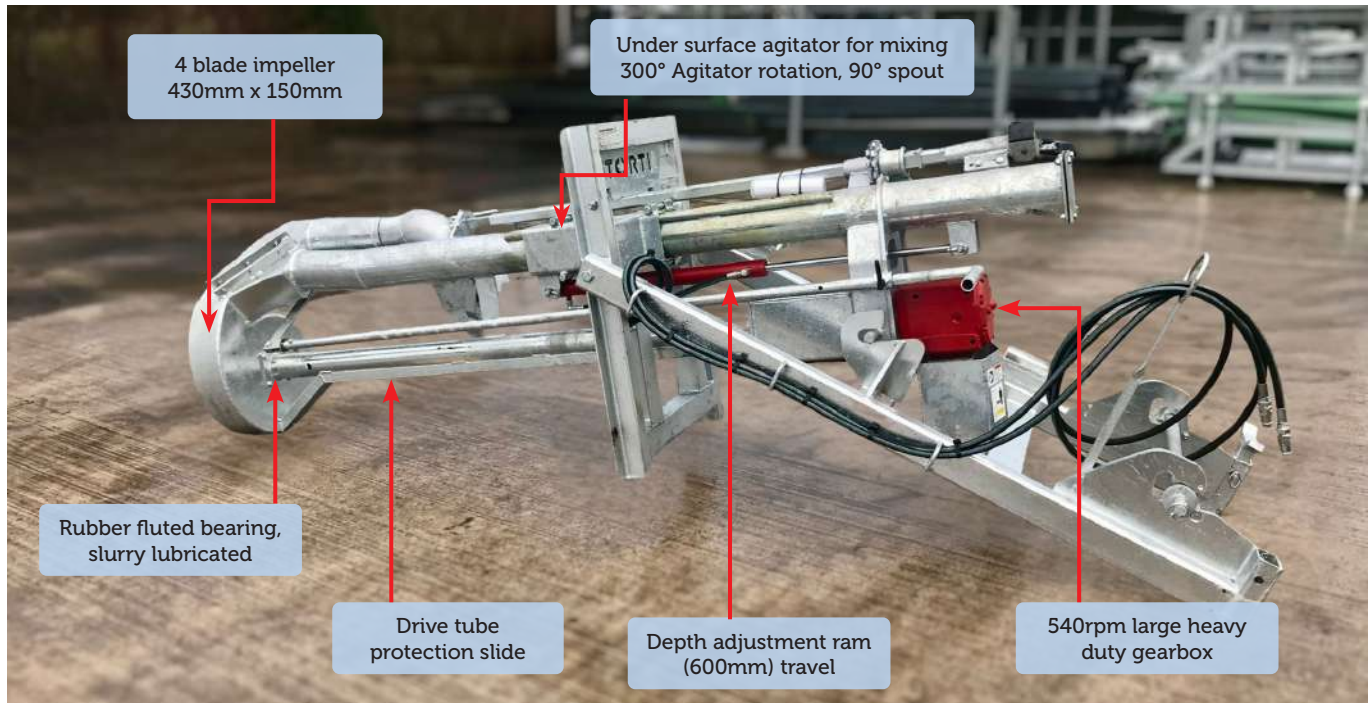
Technical Details

- Fully galvanised
- 5" Bauer M, LCR - 4 bolt flange output (PF/559)
- 4" & 6" outlet options
- 540 RPM gearbox, shear bolt protection (HD gearbox option available)
- 45-52 kW (60-70 hp) power required
- 11,365 L/min (2500 gal/min)
- Min access hole 560mm x 700mm (22" x 28")
- Max access hole 1000mm x 750mm (39" x 29.5")
- Floor frame 920mm x 1110mm (36"x 44")
- Slide bar protection for main tube
- Impeller auger feed induction
- 4 blade impeller
- Rubber fluted bottom bearing
- 270° agitator rotation, 45° spout (agitator model)
- Pump chopper kit option available

Lengths available from 5ft (1.5m) up to 12ft (3.6m). Lengths are measured in 1ft (300mm) increments.

Superjet 2-Point Linkage 5"

The Superjet 2-Point Linkage Pump is a high specification design as is the Superjet 3-Point with quick attachment to the link arms. This machine has a high capacity output with options of 5" and 6" pipework. This machine will need to be placed into position before attaching the PTO shaft. The PTO shaft must be disconnected before moving the machine to different tanks. Full hydraulic movement is also available on all functions from the tractor seat.



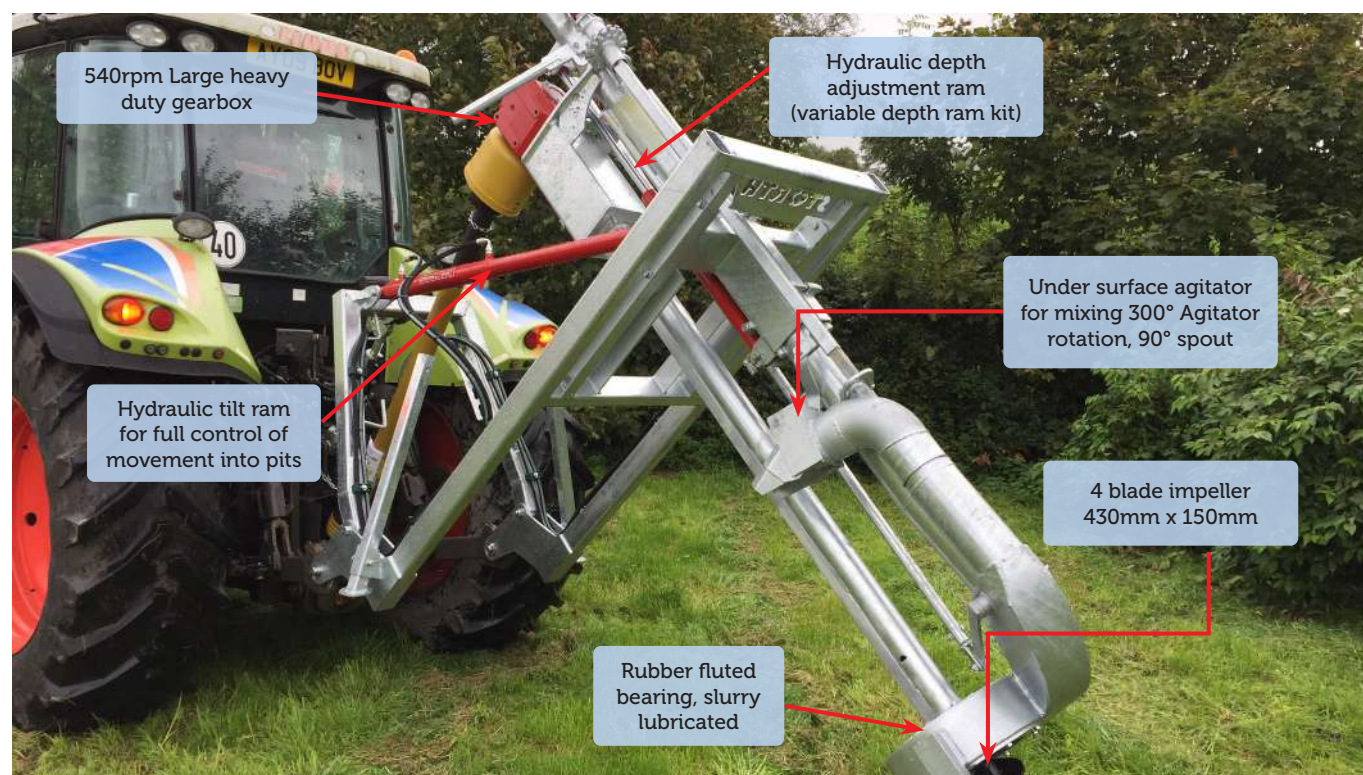
Technical Details

- 540 RPM HD gearbox, shear bolt protection
- 60-75 kW (80-100 hp) power required
- 13,638 L/min (3000 gal/min)
- Min access hole 560mm x 700mm (22" x 28")
- Fully galvanised
- Slide bar protection for main tube
- Adjustable depth, 600mm (2') travel
- 1x DA hydraulic service
- Impeller auger feed induction
- 4 blade impeller 430mm x 150mm
- Rubber fluted bottom bearing
- 300° agitator rotation, 90° spout
- Pump chopper kit option available

Models Available from: 4-6ft (1.8-2.4m) length to 10-12ft (3.0-3.6m) length

Superjet 3-Point Linkage 5" & 6"

The Superjet 3-Point Linkage is a high capacity pump with options of 5" and 6" pipe work. Fitted with a high capacity drum, the Superjet 3-Point Pump enables high volumes of slurry to be moved long distances. The under surface agitator will give incredible agitation prior to pumping. When moving this pump from tank to tank the PTO can be left attached to the tractor and machine. This allows full hydraulic movement on all functions to allow full control from the tractor seat.



Available Models

- | | |
|----------------------------|----------------------------|
| • 5-7ft (1.5-2.1m)-5" Only | • 8-10ft (2.4-3.0m) |
| • 6-8ft (1.8-2.4m) | • 9-11ft (2.7-3.3m) |
| • 7-9ft (2.1-2.7m) | • 10-12ft (3.0-3.6m) |
| | • 11-13 (3.3-3.9m)-6" Only |

Technical Details

- 540RPM HD gearbox, shear bolt protection
- 60-75 kW (80-100 hp) power required - 5"
- 75-90 kW (100-120hp) power required - 6"
- 13,638 L/min (3000 gal) - 5"
- 20,457 L/min (4500 gal) - 6"
- Fully galvanised
- Slide bar protection for main tube
- Hydraulic tilt ram
- Adjustable depth models 600mm (2') travel
- 2x DA hydraulic services
- Hydraulic kit option available for operation of jetter rotation, spout up/down and valve from jetter to discharge pipe
- Impeller auger feed induction
- 4 blade impeller
- Rubber fluted bottom bearing
- 300° agitator rotation, 90° spout
- Pump chopper kit option available

Superjet Contractor Mast

The Contractor Mast has been designed to complement our range of 3 point linkage pumps by giving them the ability to work in slurry tanks up to 3m (10') high. Mounted to the mast via the standard robust three point linkage frame, the pump is raised over the tank wall using a combination of the hydraulic mast (height adjustment range 1m-3m) as well as Superjet pump linkage hydraulic cylinder(s), many customers add in a tractor hydraulic control for maximum control.

Once over the tank wall and potentially through a cover hatch, the pump is lowered using a combination of the mast and pump cylinders down into the tank for operation. Pumps used in combination with the Contractor Mast are fully equipped with Storth's hydraulic control kit allowing adjustment of the agitator working depth as well as lateral position. If required, the pump can be removed from the mast and fixed directly to the tractor for standard pump working conditions.



Technical Details

- Working depth- 3m (10')
- Outlet- 152mm (6")
- Input speed- 540 RPM
- Min power- 105kW (140Hp)
- Performance – 20,457 ltr/min
- Pressure at outlet- 3 bar

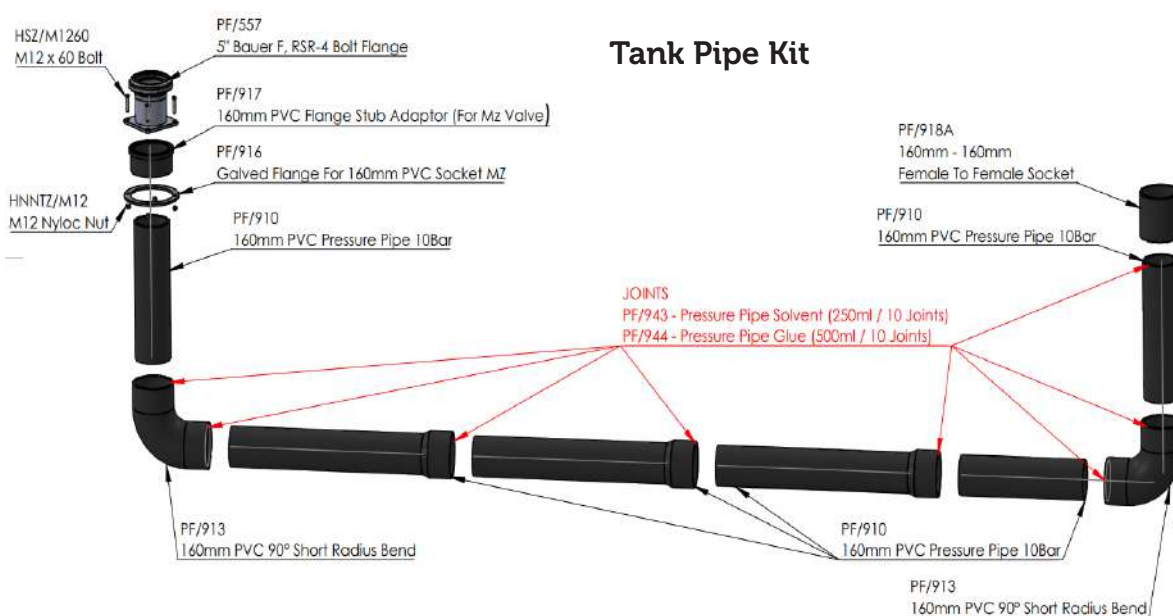
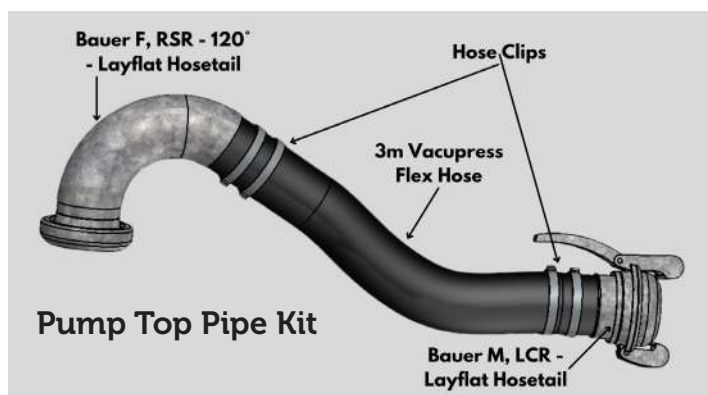
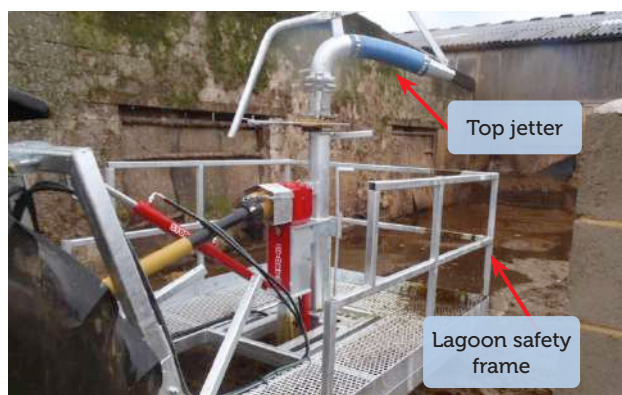
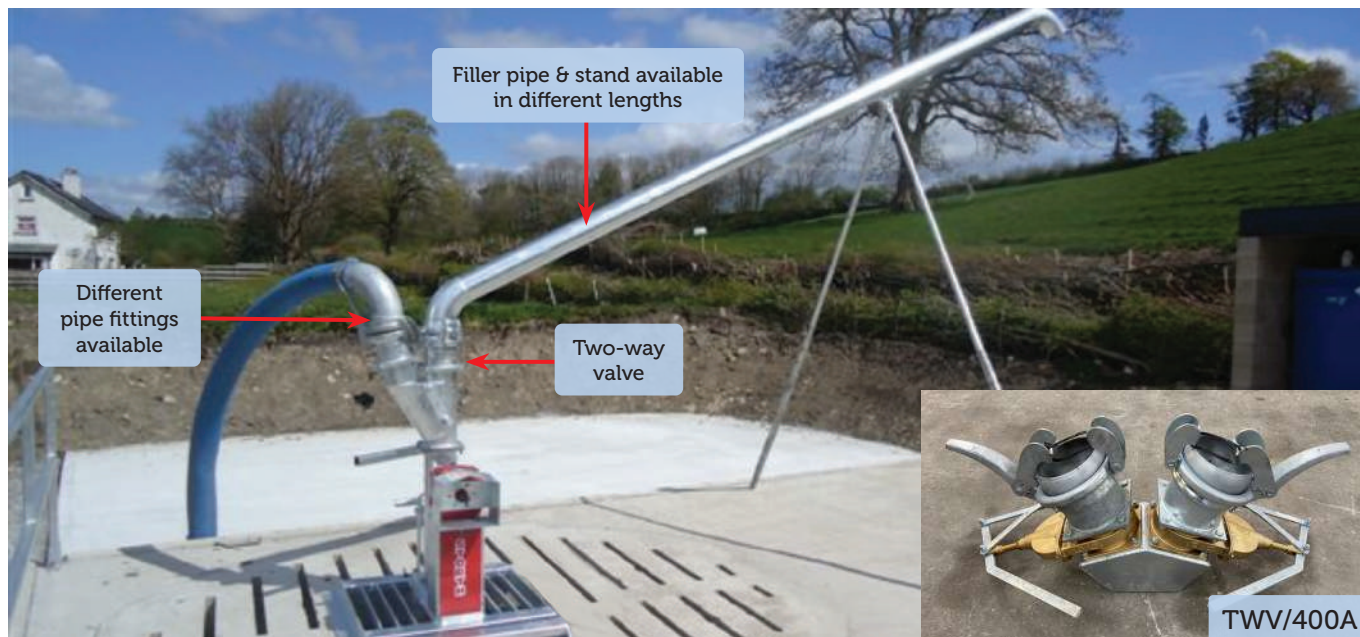
Key Features

- Capacity to operate SuperJet over 3m tank wall
- Ability to mix or pump
- Full tractor seat comfort operation
- Fully galvanised
- Safe and stable operation
- Heavy duty robust frame and drive line
- Capable of mounting Storth Superjet pumps



Pump Accessories

As all applications of slurry management are not the same, Storth have developed a range of accessories to fit all our Slurry pumps.



Centrifugal Chopper Pump

Today, numerous manufacturers provide Centrifugal Chopper Pumps to the agricultural market. Storth’s philosophy is to supply and fully support the most suitable pump for your application depending on material viscosity, horsepower availability, pressure and flow requirements. With this in mind, Storth offer a range of pump options.

Bauer - Magnum SX Range

Bauer’s unique initial spiral-draw chopping mechanism is integrated into the impeller. It gives a smooth and consistent feed, drawing slurry through the ribbed inlet manifold which acts as a shear bar. Once in the main housing, slurry is further processed by the spheroidal graphite iron impeller which is finished with hardened cutting edges. The four blade 348mm impeller spins at 2600rpm and works against a chromium steel cutting flange. Pump wet end to gearbox security is provided by a silicon carbide mechanical seal complete with an oil reservoir, which gives limited dry running capability.



Bauer SX1000

DODA – AFI Range

Initially, slurry is shredded by means of a chopper propeller. This is mounted on the end of the main impeller drive shaft. Operating at speeds up to 2750rpm, it initiates slurry flow to the impellor. The 8 blade, 350mm diameter impeller works in conjunction with a simple cutting flange to provide the chopping mechanism. DODA come into their own in terms of simplicity and security. The pump wet end and gearbox are totally separate, therefore any mechanical seal failure is instantly visible with no opportunity for gearbox contamination. Operators should note there is no dry running capacity. HD models come as standard with the intuitively designed oil cooling jacket which uses the induced slurry to assist with cooling the gearbox oil on long pumping days. Other options include the unique stone/debris trap.



DODA L35HD ContractorPlus

Pump Performance & Technical Data

Power Requirement (Hp)	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200
DODA L27 (1:3.35)																	
DODA L35 (1:2.38)																	
Bauer SX1000 (1:2.57)																	
DODA L35HD (1:2.73 & 3.31)																	
Capacity (m3/h)	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320
Capacity (l/min)	0	333	666	1000	1333	1666	2000	2333	2666	3000	3333	3666	4000	4333	4666	5000	5333
DODA L27 (1:3.35)				48					150								
DODA L35 (1:2.38)				60									240				
Bauer SX1000 (1:2.57)			40													305	
DODA L35HD (1:2.73 & 3.31)					90											300	
Head (m)	0	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170
Bar	0	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
DODA L27 (1:3.35)												125		145			
DODA L35 (1:2.38)										100		122					
Bauer SX1000 (1:2.57)								82						145			
DODA L35HD (1:2.73 & 3.31)												120			152		

All performance and technical data has been provided independently by each of the pump manufacturers under their own test procedures for water.

Hydraulic Pumps

The Hydraulic Pump range starts at 4" (100mm) up to 6" (150mm). These can be used in many applications from pumping water to pumping slurry. The wheel kit version is used to roll down lagoon banks to enable faster filling of slurry tankers or helping umbilical pumps to keep fully primed giving a constant pumping supply to the field. Hydraulic Pumps are also a flexible option for transferring liquids and slurry from pit to pit if the access of tractors is impossible as we can run hydraulic hoses to the point of where the tractor can be located.

Technical Details

- Oil flow 40L to 65L (4" pump)
- Oil flow 80L to 200L (6" pump)
- Wheeled version 6m long galvanised pipe
- 3/4" hydraulic hoses 8.5m (6" pump)
- 1/2" hydraulic hoses 5m (4" pump)
- Over pressure pipe return
- Storth triple seal system (STSS)
- Grease line kit



Dry Run Pump

The Storth EYS Dry Run Pump is a 3phase, 5.5kW pump which is designed to withstand extreme slurry conditions with its high-performance housing and impeller design.

The pump consists of adjustable fixed blades and can be easily replaced when needed. These rotary blades provide excellent chopping to ensure all slurry is consistent.



Re-Circulation Pumps

CP/600



ECP/600



The 6" Re-Circulation pump is used to enable the mixing of above ground storage tanks without the need for a reception tank. The slurry enters the Re-Circulation pump from a head pressure of slurry entering the impeller housing with a 1,000rpm PTO drive input on the CP/600. The machine will discharge at 3,000gpm for CP/600 or 405-460 for the ECP/600

Submersible Pumps

A submersible pump is designed to operate while fully submerged in slurry, ensuring continuous operation without the risk of cavitation. It is made from wear-resistant materials and incorporates a mechanical seal protection with leak sensor. The benefit of a submersible pump is that it is out of the way in a tank meaning no above ground parts that could be in the way when space is at a premium.



- 80mm (3") Hose Tail Outlet 3 - 5kW
- 114mm (4") Hose Tail Outlet 5.5 - 11kW
- 150mm (5") Hose Tail Outlet 15 - 18kW

Technical Details

- Flexible manual, timer or float switch control system
- Soft start, power efficient motors 3.0kW (4Hp) to 18kW(24Hp)
- Safety thermosensor in the windings
- Pump rating IP68 c/w 10m of cable
- High capacity from 90 to 200 m³/hr (330 to 730 gal/min)
- Positive output pressure up to 0.84 bar (3kW) to 2.0 bar (18kW)
- Corrosion resistant stainless steel pump shaft (1450 rpm)
- Mechanical seal protection with leak sensor
- Durable special alloy cast impeller
- Efficient and adjustable cutting blades

Piston Pumps

The Storth EYS Piston Pump is a hydraulically driven unit used to pump slurry over long distances with a minimum power requirement.

The piston moves upwards during the suction cycle. Reduced air pressure inside the machine and slurry pressure force the outlet valve to close and inlet valve to open. The pump chamber is then filled with slurry.

The piston moves downwards during the pumping cycle. The pressure of slurry inside the pump chamber forces the inlet valve to close and outlet valve to open. Slurry is then transferred out of the chamber to the discharge pipe.



Technical Details

- Shot blasted c/w heavy duty paint
- 5.5 kW
- 3 Phase
- Hydraulic cylinder diameter 102mm (4")
- 203mm (8") inlet
- 152mm (6") outlet
- Capacity 40 m³/h maximum
- Pump distance 1000m maximum (0m head)
- Pump head 60m maximum (0m distance)
- Central grease bank

SCRAPE IT



PUMP IT



SEPARATE IT



STORE IT



MIX IT



APPLY IT

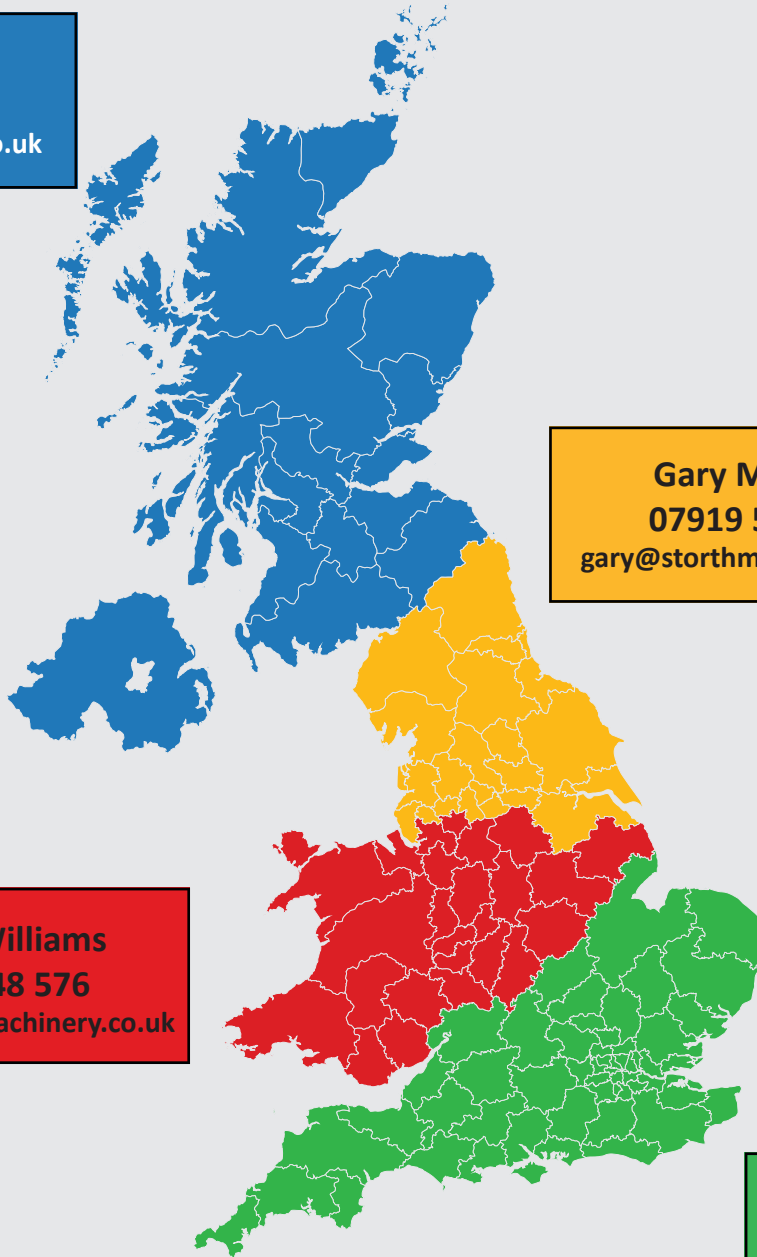


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