

# STORTH

EXPERTS IN SLURRY MANAGEMENT



Storth has used its experience of slurry management and extensive market research to develop a range of application equipment. Aimed at the modern day farmer and contractor, the objective is to provide a complete slurry solution from farm to field.

## Application Systems

Specialist Manufacturers of slurry handling equipment



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# 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.



## 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 impeller. 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.



## 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 (m <sup>3</sup> /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.



## Standard Equipment

Storth have designed a fully galvanised chopper pump frame with the capacity to host both Bauer and DODA pumps. The unique design incorporates strength, durability and ergonomic features. As the most robust frame on the market, it is capable of hosting the optional compressor tow hitch kit.

Chopper pump priming is provided via a heavy duty Hertell B400 vacuum primer, which is driven by an oversized OMP hydraulic motor. With continuous vacuum rates of 0.5 Bar and an integral ventilator, it is not long before you are engaging the pump and sending slurry to the field. A transparent pipe system gives the operator great visibility, assisting with priming and vacuum pump security. Further security comes from a large 10lt galvanised vacuum vessel complete with positive hand operated  $\frac{3}{4}$ " ball valve. All this gives the operator comfortable and guaranteed control of the complete vacuum system.

To draw slurry into the pump, a 15ft (4.6m) 6" suction hose complete with male Bauer coupling is supplied as standard. Once the slurry is in the pump, the tractor PTO can be engaged and the power transmitted via the shear bolt protected PTO shaft.



## Optional Equipment

To improve pump functionality Storth offer a range of options; 8" Suction hose, DODA cone liner stone trap kit, compressor towing bracket, headland management pressure relief system and remote control. Storth also offer a unique remote control system called the "Tractor Pump Station (TPS)", the system enables the application equipment tractor operator to control the pumping tractor and pump from the field. Tractor engine speed and pump pipework valves can be altered remotely giving control of slurry feed.

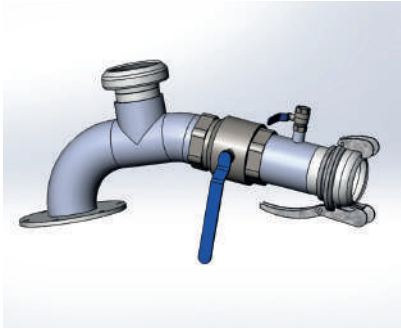




# Pump Output Pipework

To enable safe pumping operations, customers should choose one of three available output pipework solutions, "FarmerPlus", "Contractor" or "ContractorPlus".

## FarmerPlus Pipework

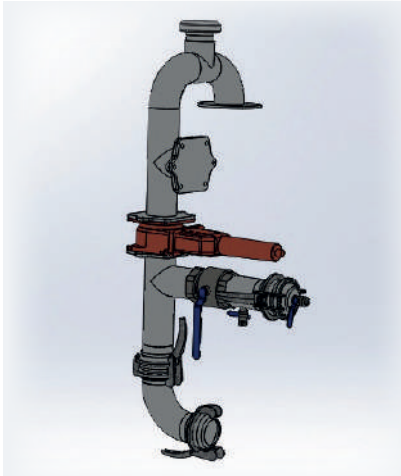


Entry level pipework, fully galvanised and incorporating the 4" Bauer female primer coupler. Slurry feed to the field is controlled via a 4" manual ball valve. To clean pipes after use, simply connect a high-pressure airline to the compressor fitting which comes with 3/4" ball valve security. Those wanting to use a sponge ball will have to break the field feed pipe for insertion or consider contractor pipework.



Primer Coupling

## Contractor Pipework



Mid-range pipework, fully galvanised and incorporating the 4" Bauer female primer coupler. Slurry feed to field is controlled from the comfort of the tractor seat via a double acting 6" hydraulic valve. As with the FarmerPlus, a compressor fitting is standard. For those wanting spotless pipes and minimal risk of slurry contamination the design incorporates a sponge chamber. This chamber allows a sponge ball to be introduced into the field feed pipe without breaking the line.

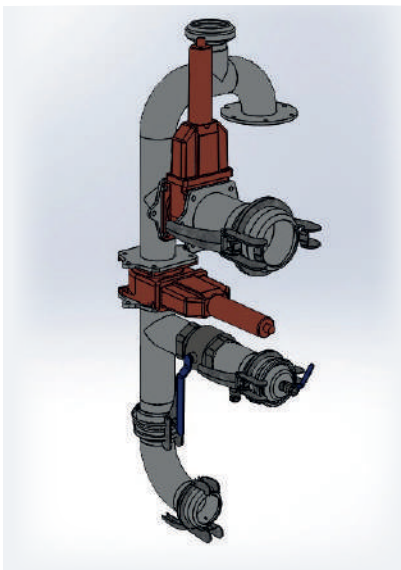


Hydraulic Gate Valve



Sponge Chamber Cap c/w 3/4" Manual Ball Valve & Compressor Coupling

## ContractorPlus Pipework



Top of the range pipework, fully galvanised and incorporating the 4" Bauer female primer coupler. Slurry feed to field is controlled from the comfort of the tractor seat via a double acting 6" hydraulic valve. Pipe cleaning facilities are the same as the Contractor pipework, the key benefit of the ContractorPlus is the return to lagoon-tank facility. Operated from the comfort of the tractor seat via a 6" double acting hydraulic valve, it gives the pump operator complete control of the slurry. The optional headland management pressure relief system can also be installed on the ContractorPlus for added control.



Sponge Ball Chamber



4" Bauer 90° Field Output Pipe 4" Bauer F, RSR to M, LCR

# Engine Pump Station

The main advantage of using an Engine Pump Station (EPS) is that there is no need to use a tractor to drive the pump. This releases the tractor and potentially an operator (ContractorPlus Controls) for more diverse operations, saving excessive static hour operation and expensive depreciation losses.

The Storth EPS is designed to utilise the full potential of Bauer or DODA centrifugal chopper pumps. Each pump is specifically designed for the EPS application and gives high flow pump performance, whilst operating at low engine speeds. This ensures the best possible fuel efficiency with the highest performance available.

Whether you are an agricultural user or industrial contractor you will have individual requirements. Storth offer a choice of engines ranging from 175hp to 238hp, two skid or trailed units (650lt or 1000lt fuel tank) and open or enclosed canopy. EPSs can be designed to meet your specific requirements.



EPS Controls come in three formats.

## FarmerPlus Control

Basic manual control panel which gives the operator start/stop, rev counter, hour meter, low oil pressure and high water pressure protection. Manual throttle and slurry feed control.

## ContractorPlus Control

Fully interactive remote control providing the user with live feed with the pump via a 7" screen. Variable engine RPM including automatic headland management, flow meter, pressure sensor monitoring and compressor control facility. Range to 5km.

### EPS Benefits

- Reduce labour
- Eliminate tractor depreciation
- Minimise fuel consumption
- Improve pump efficiency
- Remote or local control
- Engine safety protection



FarmerPlus Control



ContractorPlus Control





# Umbilical Trailers

A range of three trailers designed for the transport of a range of slurry equipment, dependent on your requirements. These trailers are perfect for assisting with slurry operations and making your operation more efficient.

## Contractor Fast Tow

Firstly, we have our Contractor Fast Tow Engine Pump Station (EPS) & Compressor Trailer. The compact trailer is designed specifically for contractors to speedily tow on roads using a pickup rather than the need for an extra tractor. Sold mainly to operators focusing on AD plants, the unit stays below the 3.5 tonne Maximum authorised Mass (MAM) legal towing capacity.



### Key Features

- 525kg, robust galvanised trailer
- Overall dimensions: 1.94m wide, 5.52m long
- Tandem braked axle c/w 12" wheels 195/60 R12.6
- 40mm eye coupling c/w heavy duty lock
- Full LED lighting
- Front support & rear support stands
- Heavy duty jockey & spare wheel
- Total weight 3,050Kg which includes trailer, EPS & compressor.



## Contractor Tractor Tow



The Contractor Tractor Tow EPS & Compressor Trailer is very similar to the Contractor Fast Tow in terms of what equipment it can carry. Rather than focusing on low weight & fast tow speeds, it is built for tractor towing & tough farm lanes.

### Key Features

- Robust build quality
- Demountable Engine Pump Station & Compressor skids
- manoeuvrable single unit
- Hydraulic brakes & hand brake
- Road legal, LED lighting & plate mount
- Fully supported tread plate trailer floor
- 355/650 R18 Tyres

## ContractorPlus Umbilical

The Storth ContractorPlus Umbilical Trailer offers the ability for a one operator slurry application system which allows for a more versatile slurry spreading system. The umbilical trailer promotes an efficient way to transport a 3km umbilical system in terms of fuel, number of tractors and staff. At Storth we ensure a robust build whilst still maintaining low tractor and equipment stress at road speeds of up to 50km/hr. The trailer benefits from having load sensing air brakes and hydraulic brakes along with under slung leaf spring suspension.



### The Trailer will hold:

- 2 x ContractorPlus Drop Bobbin Reelers
- 2000m Hose
- Compressor
- Toolbox/ fittings storage
- Quad bike
- Road ramps
- Engine Pump Station
- Suction Hoses

The trailer is extremely versatile with all elements to enable other uses for the trailer. This can also be useful as the Engine Pump Station can be demounted to access areas the trailer may not be able to get to. The trailer offers a long drawbar which enables the customer to carry an applicator on the 3-point linkage of the tractor.



### Key Features

- Robust build quality
- Long drawbar to enable carrying applicator on 3pt linkage of tractor
- Twin high-speed, 10-stud commercial axle
- Hydraulic & air 420/180s brakes
- Demountable Engine Pump Station for areas the trailer may not be able to get to
- Low loading bobbins
- Rear stabiliser jack stand
- LED lights, rear beacon & Hi-Vis side markers
- 50mm rear ball hitch



# Lay Flat Hose

The Storth reputation is built on robust build quality and intuitive design. With these principles in mind, Gollmer & Hummel as well as Snap-Tite were selected as primary stocked hose.

## Gollmer & Hummel (G&H)

Gollmer & Hummel (G&H) are a 5th generation family-run business which have been running for 150 years. The knowledge and experience they have gained over these years have helped them to better understand what their customers want and how to deliver high-performance hoses. G&H are now the world's leading hose suppliers, which could not have been achieved without their highly qualified specialist staff and their access to state-of-the-art machinery.

G&H's Hilcoflex range has been designed specifically for the irrigation and slurry umbilical market. It is available in either PU or rubber. Each production batch is thoroughly tested to ensure the highest level of quality for their customers.

Make	Product	Type	Size	Weight (kg/m)	Wall Thickness (mm)	Working Pressure (Bar)	Burst Pressure (Bar)	Design Strength (kg)
G&H	Hilcoflex PU (Red)	PU	4"	1.15	3.3	14	42	13800
Snap-Tite	IR (Blue)	PU	4"	1.14	3.3	17.2 (Max)	34.5	13300
G&H	Hilcoflex PU Extra (Green)	PU Drag	4"	1.3	3.6	14	42	13800
G&H	Hilcoflex PU Drag (Orange)	PU Drag	4"	1.35	3.8	14	42	13800
Snap-Tite	TS (Brown)	PU Drag	4"	1.33	3.8	17.2 (Max)	34.5	13300
Snap-Tite	XH40 (Yellow)	Rubber	4"	1.22	3.1	16	52	12800
G&H	Hilcoflex Agro (Black)	Rubber	4"	1.35	3.4	-	50	11000
G&H	Hilcoflex PU (Red)	PU	5"	1.5	3.4	14	42	20400
Snap-Tite	IR (Blue)	PU	5"	1.42	3.4	17.2 (Max)	34.5	17700
G&H	Hilcoflex PU Extra	PU Drag	5"	1.6	3.7	14	42	1700
G&H	Hilcoflex PU Drag	PU Drag	5"	1.85	3.8	14	42	20400
Snap-Tite	TS (Brown)	PU Drag	5"	1.59	3.8	17.2 (Max)	34.5	17700
G&H	Hilcoflex Agro (Black)	Rubber	5"	1.7	3.5	15	45	13500
Snap-Tite	XH40 (Yellow)	Rubber	5"	1.37	3.1	-	42	12800
G&H	Hilcoflex PU (Red)	PU	6"	1.9	3.7	17 (Max)	42	27200
Snap-Tite	IR (Blue)	PU	6"	1.72	3	20.7 (Max)	41	19900
G&H	Hilcoflex PU Drag	PU Drag	6"	2.1	4	17 (Max)	42	27200
Snap-Tite	TS (Brown)	PU Drag	6"	1.82	3.8	20.7 (Max)	41	19900
G&H	Hilcoflex Agro	Rubber	6"	1.95	3.5	20 (Max)	42	17000

## Snap-Tite

Snap-Tite have built their reputation on manufacturing industry-leading quality hose in the United States and worldwide. It all started in 1969, when Snap-Tite formed its Hose Products Division. Today, All-American Holdings, LLC is doing business as Snap-Tite Hose. Every day their team of 195+ works at the company's facilities – two in Pennsylvania and one in Wexford, Ireland – to deliver on that quality promise.

The company remains true to their commitment to engineer and manufacture the industry's best hose, with their premium hose product now trusted worldwide – from the highest quality PU hose to their rubber hose.



# Hose Fittings

## Bauer HK

The transportation of liquids from point A to point B is an age-old activity. Roughly 80 years ago, it was Rudolf Bauer who set new standards for the connection of mobile pipes with his globally patented Bauer-HK quick connection mechanism.

Storth provides genuine Bauer fittings on umbilical equipment. This ensures the safety of operations and customer peace of mind. Available from 4" through to 8" the Male-Locking Ring (LCR) to Female-Rubber Sealing Ring (RSR) system provides a simple spanner-less and reliable solution to hose coupling.



## Storz

Feuer-Vogel were founded in 1868 by Jean Vogel in Speyer, Germany. The company is currently run by the fourth and fifth generation. Over the last 140 years of producing fittings, they have established expertise and advanced manufacturing techniques, guaranteeing customers excellent quality.

Storz couplings are unsexed and have a unique swivel which helps to reduce hose twisting. There are no locking levers eliminating the possibility of accidental unlocking of joints when dragged across the ground. When rewinding the hose onto reels the compact neck design results in tidier reels and speeds up wrapping for open bobbin reelers.



## Shug

Metal 360 Inc have been manufacturing the Shug Coupling in Canada since 2008. Each fitting is machined from a single billet of 6061-T6 extruded aluminium which is then type three hard coat anodised. This gives Shug their reputation for being the strongest and safest coupling system on the market.

With no requirement for spanners, the couplings are unsexed and have complete interchangeability between sizes 4"- 6" without the requirement for either enlargers or reducers.

Suited to customers dragging large diameter hose, the design suits bobbin type reelers where the compact neck design suits tidy wrapping.



# Hose Reelers

Lay Flat Hose is one of the largest economical outlays in the umbilical system. Its storage, transportation and management are the key elements in any umbilical system. Storth have developed a range of hose handling systems designed to facilitate the pumping of slurry from store to field in the most efficient way.

Fully galvanised as standard (including the powder coated side panels), the range offers machines to suit either farmer or contractor, starting with the 800m FarmerPlus Bobbin Reeler up to the 2000m Contractor Trailed Reeler. Using a combination of Reelers on the front and back of the tractor enables one tractor to carry up to 3000m of hose.



FarmerPlus 800 Bobbin Reeler

## 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. Optional equipment includes 3-point linkage to either Storth HD or Standard Female "A" Frame, Bonnet Guard and Bolt in Reel Dividers.

## Contractor Bobbin Reeler

The Contractor Bobbin Reeler's cleverly engineered frame design ensures maximum stability and strength for the bobbin and its heavy duty hydraulic gearbox drive. Carrying capacity of 1000m of 4", 800m of 5", 600m of 6". Available with either Storth HD or Standard Female "A" Frame.



55mm Idler Shaft



Hydraulic Gear Box Drive



Engineered Frame



Contractor Bobbin Reeler 1000m  
c/w Optional Bonnet Guard



# ContractorPlus Bobbin

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.



Detached Reel



Line frame up to attachment



Lifted into cradle

## Technical Details

- Robust build quality
- Fully galvanised corrosion protection
- Flexibility to be used front or as a rear piggy-back
- Easy piggy-back bobbin swapping
- 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 positioned both ends of bobbin



Bobbin locked in and ready for use

Model	Weight	Mounting	Reeler Capacity	Hydraulic	Width	Height
FarmerPlus 800	455kg	3-Point Linkage	600m	1 DA	2.15m	1.50m
Contractor Bobbin 1000	540kg	HD Female "A" Frame or Standard Female "A" Frame	1000m	1 DA	2.4m	1.53m
Contractor Plus Bobbin 1000	490kg	Standard Female "A" Frame	1000m	1 DA	2.15m	1.50m



# Mounted Reeler

Designed to take the hard work out of hose laying and retrieval, Storth 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 Storth 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.



Mounted 1200m Reeler



Multi Hose Guide Roller



Hydraulic Gear Box Drive



Rotary Speed Control Valve



LED Light



Full Width Hose Couple Trough

## Technical Details

- 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

Model	Weight	Mounting	Reeler Capacity	Hydraulic	Width	Height
Mounted Reeler 1000	740kg	Storth HD Female A Frame or Std Female "A" Frame	1000m	1 DA	2.00m	1.90m
Mounted Reeler 1200	780kg		1200m		2.15m	1.95m



# Trailed Reeler

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

Choose from the simple FarmerPlus, road friendly Contractor or top of the range ContractorPlus models.

The FarmerPlus machines offer a basic and robust solution for large volume hose transportation. Fitted with 550x55-22.5 flotation tyres, mudguards, road lighting, rear hose roller guide roller and direct drive heavy duty hydraulic drive motor. The features ensure maximum efficiency, and long maintenance-free service life.

Contractor models have the addition of hydraulic brakes, rear spool control and second tension roller. Giving additional operator comfort and road transport security.

Finally the Contractor Plus version is installed with a hydraulic steering drawbar improving field access as well as reeling flexibility.



Contractor Trailed Reeler 2000



Toolbox Storage



Hydraulic Drawbar



Hydraulic Brakes

## Technical Details

- Robust build quality
- Fully galvanised c/w powder coated side panels
- Heavy Duty chassis
- 550/60X22.5 flotation tyres
- Robust hydraulic gearbox drive
- 55mm reel stub shaft diameter
- Full width hose end trough
- LED lighting kit
- Tool box
- Optional working light
- Hydraulic brakes (Contractor - ContractorPlus)
- Twin hose tension roller c/w guide (Contractor - ContractorPlus)
- Rotary speed control valve (Contractor - ContractorPlus)
- Optional hydraulic drawbar offset (ContractorPlus)

Model	Reeler Capacity	Hydraulic	Width	Height
Trailer Reeler 1500	1500m	1 DA	2.85m	2.75m
Trailer Reeler 2000	2000m			3.00m

# Spreader Bars

Designed to provide the simplest method of slurry application, Storth Spreader Bars are available in spread widths of 10m (Single Outlet) up to 12m (Twin Outlet). With accurate adjustment, the bars provide low level spread patterns with large droplets; ensuring even distribution of slurry, reduced drift, and minimising environmental odour nuisance.

Built from high quality materials, Storth Spreader Bars are galvanised as standard to help meet the most demanding of operating environments. The range offers machines to suit either farmer or contractor, whatever your reeler or spread width requirements.



## Single Spreader Bar

Storth provide a Single Spreader Bar with heavy duty 3-point linkage, adjustable alloy spread plate and single 6" hydraulic gate valve. A 180° pivoting swing arm supports the hose and gives complete flexibility during headland turning. A 360° twist joint can be installed on the swing arm as an option. Additional features include a hose drag eyelet and hose hooking leg to assist with in field hose management.



## Twin Spread Bars

Built to the same high specifications as the Single Spreader, three robust models are available in the Twin Spreader range: FarmerPlus, Contractor and ContractorPlus (Combi).

Vertical fold transportation arms, alloy spread plates and 180° pivoting hose mounting swing arm come as standard.

A close coupled reeler and piggy-back facility is offered by the FarmerPlus and ContractorPlus models; simply add the optional A frames. The Contractor has been specifically engineered with Trailed Reelers in mind.

Complete operator control is offered by the Contractor and ContractorPlus (Combi) which are fitted with twin slurry gate valves, enabling independent side shut-off for operation in butts and tight spots. Using this facility in conjunction with individual left or right fold provides a useful unblocking resource when operating with extremely fibrous material.

### Technical Details

- Robust build quality
- Fully galvanised
- Parking stands
- Heavy duty 3-point linkage
- 4" female Bauer hose connection
- Pivoting swing arm 180°
- Lay Flat or Solid Hose connection
- Hydraulic shut off control(s)
- Adjustable nozzle angle
- Alloy spread plates
- Piggy-back facility
- Optional 360° swivel joint

Model	Weight	Gate Valves	Pipe System	Reeler Capacity	Hydraulic	Width	Height
Contractor Single	235kg	1	Solid	No (Reeler Capacity)	1 DA	1.20m	2.00m
FarmerPlus	300kg	1	Layflat Hose	FarmerPlus Bobbin	2 DA	2.30m	2.45m
Contractor Twin	360kg	2	Solid	Trailed	3 DA	2.10m	2.60m
Contractor Plus (Combi)	350kg	2	Solid	Bobbin or Mounted	3 DA	2.30m	2.60m



# Dribble Bars

The method of slurry application, in addition to dry matter, soil type and season, impacts the amount of nutrients available to the crop. Dribble Bars (also known as Band Spreaders) reduce the surface area of slurry exposed to the atmosphere, lowering nutrient losses by as much as 5% in comparison to Spreader Bars.

Giving careful consideration to both operating costs and slurry potential, Storth have developed a range of fully galvanised Dribble Bars to meet with the most demanding needs of the agricultural market.

## FarmerPlus Dribble Bar (Tanker)

Designed primarily for the slurry tanker market, Storth has incorporated a QuickFit system which can be matched with either a back door or tanker chassis mount to give a simple piggy-back set-up. This system allows for height adjustment, quick dribble bar removal and easy transfer of bar between different brands of tanker.

The dribble bar is operated by one double acting hydraulic service which makes use of a simple in cab control box to switch functions between distributor and boom fold. Features include break back safety wings, wing transport support, anti-burst hydraulic safety valves, LED lights and easy access distributor.

Available in 7.5m, 10m or 12m versions, the FarmerPlus range of Dribble Bars can also be used in umbilical applications when purchased with the optional heavy duty Piggy-Back Frame. This comes with QuickFit system, swing arm and distributor feed pipe.



FarmerPlus 7.5m Dribble Bar

Model	Outlets	Working Width (m)	Weight (kg)	Hydraulic	Transport Width (m)	Transport Height (m)
FarmerPlus 7533T	30	7.5	450	1DA	2.45	2.85
FarmerPlus 1043T	40	10	710		2.45	2.85
FarmerPlus 1243T	40	12	755		2.6	2.85



# Contractor Dribble Bar (Umbilical)

Contractor Dribble Bars are available for umbilical mounting with working widths from 7m–12m. A robust central frame design achieves close coupling, narrow transport width and strength to support reeler piggy-backing. As with the FarmerPlus, the Contractor is installed with Storth’s own NovaCutPlus Distributor; this guarantees consistent and accurate material processing. Mounted horizontally, uniform distribution is guaranteed across all of the 40mm distributor outlets despite any potential fluctuation in feed. Storth have also designed a cutting blade kit which sits within the distributor to improve the self-cleaning of the distributor. Self-sharpening rotating blades ensure better chopping of slurry with a higher fibre content.

Great care has been taken with the flow design to ensure distribution of even the most fibrous slurry without trapping. Continued expansion of the hose joints from the 40mm NovaCutPlus Distributor outlets to the 51mm Super X Hose and finally to the 64mm umbilical specification delivery hose, eliminating any blockage opportunity.



Model	Outlets	Working Width (m)	Weight (kg)	Hydraulic	Transport Width (m)	Transport Height (m)
Contractor 1042	40	10	900	2SA & 2DA	2.6	3
Contractor 1242	40	12	960		2.6	3



## ContractorPlus Dribble Bar (Umbilical)

With a NovaCutPlus 20 distributor mounted on each wing, operators of Storth's top of the range dribble bar have complete control of slurry application. Available in 10 or 12m, each wing has individual feed via the splitter box and 6" hydraulic gate valves. This system enables hill side feathering, 1/2 side shut off or complete shut off. Other advantages of this dribble bar include improved rear visibility and ground level access to distributors for service.

The ContractorPlus has been built to the same robust standard as the Contractor, both designed to pull 5" drag hose and piggy-back reeler. Careful consideration has been given to the intake pipework system, an extendable 180° swim arm gives extra support to the incoming pipe and a 4" flow meter can be installed with ease.



### Technical Details

- Robust build quality
- Fully galvanised
- Heavy Duty 3-point linkage
- Vertical fold
- Pivoting swing arm 180°
- NovaCutPlus distributor
- Super-X delivery hose
- 250mm band width 9m & 10m
- 300mm band width 12m
- Flow meter ready
- Sponge blow out kit
- Optional piggy-back facility
- Optional 360° swivel joint
- Optional twin spreader nozzle



Model	Outlets	Working Width (m)	Weight (kg)	Hydraulic	Transport Width (m)	Transport Height (m)
ContractorPlus 1042	40	10	1015	3SA & 2DA	2.75	3
ContractorPlus 1242	40	12	1085		2.75	3



# Umbilical Trailing Shoes

Storth's unique Trailing Shoe design was engineered with extensive knowledge of slurry management coupled with product development. The Trailing Shoe is designed for use on grassland and arable land for applying slurry to the soil surface with minimum contamination to the plant leaves.

## Contractor Trailing Shoe (Umbilical)

### Technical Details

- Shoe ground pressure from 8 to 12kg
- Can be used for umbilical & tanker use
- Short swing arm
- OptiCut Profi Plus distributor
- Delivery hoses - 38mm
- Hydraulic transport lock



Model	Outlets	Working Width (m)	Weight (kg)	Hydraulic	Transport Width (m)	Transport Height (m)
Contractor 10.5	42	10	730	2SA & 2DA	2.4	3
Contractor 12	40	12	780		2.7	3



# ContractorPlus Trailing Shoe (Umbilical)

The Contractor Trailing Shoe is manufactured using a single beam frame and the trailing shoe units are mounted via sprung steel carriers spaced at 250mm. Each unit is fitted with a replaceable cast tip which parts the crop leaves, allowing slurry to be delivered to the soil surface via a rubber placement boot. The unique scorpion style swing arm guarantees pipe/shoe unit clearance when turning, ensuring complete field slurry cover and operator comfort.



9m Contractor Trailing Shoe



Sprung Steel Carriers



Shoes Unit 250mm Horizontal Spacing

## Technical Details

- Robust build quality
- Fully galvanised
- Heavy duty 3-point linkage
- Vertical fold arms
- Pivoting 2 piece scorpion swing arm
- Single hydraulic gate control
- NovaCutPlus Distributor
- 40mm outlets
- Super-X Delivery Hose
- Sprung steel unit carriers
- Cast replaceable shoes
- Rubber placement boots
- Blow out valve included as standard
- Optional flow meter ready
- Optional 360° swivel joint

Model	Outlets	Working Width (m)	Weight (kg)	Hydraulic	Transport Width (m)	Transport Height (m)
Contractor 9042	36	9	1500	2DA & 2SA	2.8	3.2



# Tanker Trailing Shoes

## FarmerPlus Trailing Shoe (Tanker)

The Farmer Trailing Shoe offers simplicity while maintaining its functionality. This trailing shoe benefits from hydraulic floating shoe springs and vertical folding arms for easy transport between slurry store and field. Hydraulic transport locks and arm stabilising pin/cone give complete security when travelling. Designed primarily for the slurry tanker market, Storth have incorporated a QuickFit system which can be matched with tanker chassis mount to give a simple piggy-back set-up. This system allows for height adjustment, quick trailing shoe removal and easy transfer between different brands of tanker.



Model	Outlets	Working Width (m)	Weight (kg)	Hydraulic	Transport Width (m)	Transport Height (m)
Farmer 8033T	30	8	940	2DA	2.45	3.2



### Technical Details

- Robust build quality
- Fully galvanised
- Vertical fold arms
- NovaCutPlus Distributor
- 40mm outlets
- Sprung steel unit carriers
- Cast replaceable shoes
- Rubber placement boots
- Quick hitch tanker mounting system
- Choice of back doors & chassis mounts available to fit a variety of tanks
- Optional flow meter ready



## Contractor Trailing Shoes (Tanker)

Contractor Trailing Shoes (Tanker) offer wider working width options for larger tankers and higher frequency users. Installed with a vertical OptiCut Profi Plus macerator (2x on ContractorPlus) the design is extremely compact despite the additional working widths. During transport the outer arms are stored alongside the tanker to give best weight distribution as well as security. Rapid fold to unfold times ensure high work rates & each wing has pressure relief break back security for safety. Installation Kits are available for most tanker brands and a fitting service is available.

## Contractor Trailing Shoe (Tanker)



Model	Outlets	Working Width (m)	Weight (kg)	Hydraulic	Transport Width (m)	Transport Height (m)
Contractor 10.5	35	10.5	850	2DA	2.98	2.49
Contractor 12	40	12	1000			2.49

## ContractorPlus Trailing Shoe (Tanker)



Model	Outlets	Working Width (m)	Weight (kg)	Hydraulic	Transport Width (m)	Transport Height (m)
ContractorPlus 12	48	12	1250	2DA	2.98	2.49
ContractorPlus 15	60	15	1300	&		2.49
ContractorPlus 18	72	18	1400	Case Drain		2.49

# Application Control

The opportunity slurry offers as a nutrient resource for growing crops is widely known and there are various information sources which can be of great assistance with regards to application rates pertaining to different types of slurry, land and crop.

Application rates for many years have worked on a variety of principles; educated guess, historic data or "let's get rid of it" theory. This may have worked in the past but moving forward we need to change to minimise pollution and maximise potential.

To do this, slurry application rates should be monitored; Storth offer a variety of solutions based around the Krohne Flow Meter.

## In Line Flowmeter

Designed to stand on the ground close to the pump. The Flowmeter is built into a robust galvanised frame, giving protection from accidental damage.

It is fitted with 4" Bauer Couplings as standard and 6m of 12v power cable with a COBO type 3 pin plug.



## Applicator Flowmeter

Built into the pipework of the Slurry Applicator, either Dribble Bar or Trailing Shoe. A choice of remote heads can be used in the applicator tractor cab to monitor data:

### FiF Remote Head

- Duplicates information shown on the Flowmeter screen without the operator having to leave the cab to take readings
- Affixes to side window via its own suction pad with a 360° swivel for precise alignment
- Totaliser easily reset on the touch screen
- Approximate screen size 34mm x 128mm



### DD Remote Head

As per FiF Remote Head with additional functions:

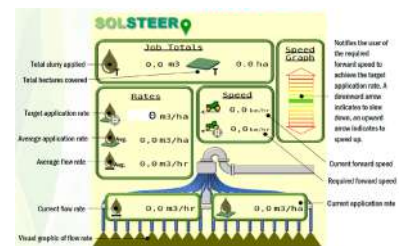
- Application rate in m<sup>3</sup>/hectare
- Forward speed
- Totalisers
- Date and time
- Area coverage
- Download via memory stick
- Supplied fully programmed
- Compatible with JD Harvest Lab



## Iso-Slurry Management System

The Iso-Slurry fully integrates into the ISOBUS system available in most modern tractors. The equipment has been designed as a 'plug and play' unit utilising existing equipment.

- Integration into farm management software
- Accurate records of daily application amounts
- Seamless transition to record keeping on a field-by-field basis
- Can plan on a field-by-field nutrient management plan
- Sends the application map wirelessly back to farm office via the JD link terminal





**SCRAPE IT**



**PUMP IT**



**SEPARATE IT**



**STORE IT**



**MIX IT**



**APPLY IT**



# STORTH

EXPERTS IN SLURRY MANAGEMENT

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