

# » SAMSON PG SLURRY TANKERS



- growing together

# » PG Slurry Tankers

**SAMSON AGRO** has always devoted particular care and attention to quality, durability and machine efficiency when designing its products. Based in Denmark, a country with one of the most stringent regulations concerning organic fertilizer spreading and environmental standards in Europe, SAMSON AGRO has several decades of experience in the management and application of organic slurry and muck.

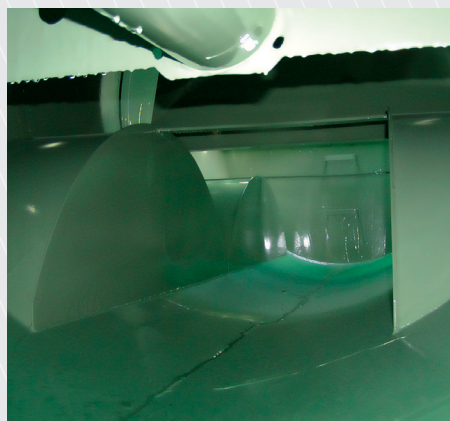
SAMSON PG slurry tankers are available in two-axle versions (15m<sup>3</sup>, 18m<sup>3</sup> and 20m<sup>3</sup>) and three-axle versions (21m<sup>3</sup> and 25m<sup>3</sup>). The PG product range has been developed to satisfy the requirements of the professional user in terms of efficiency, flexibility, user-friendliness and low maintenance costs.

The integrated design of the SAMSON PG slurry tankers, with the wheels located on the side of the tank for a low centre of gravity, is packed with innovative features. The hydraulic axle suspension supplied as a standard feature on the PG18 and the larger tankers, provides perfect stability in all circumstances and enables faster driving and thereby more daily loads. Fitted with an electronic flow controller and a three-way return valve as a standard feature, the slurry supply to the spreading equipment is accurately regulated for precise application. The equipment supplied as standard is comprehensive, with many additional optional extras to choose from allowing you to customize your machine to your specific needs. The SAMSON PG slurry tanker has a centrifugal unloading pump. This type of pump has a high capacity. As standard it pumps up to 8.000 L/min\*. You can buy extra capacity for the unloading pump and then it can pump up to 12.000 L/min\*. Since the pump does not use compressor or vacuum technology, the entire available volume of the tank is therefore utilized, as no foam takes up the capacity of the tank. And because the tank is not subject to any pressure or vacuum it is under less stress, increasing the lifetime of the tank.



## » SLURRYMASTER 6000

The SlurryMaster 6000 unit is a computer controlling all the functions on the PG slurry tanker. For instance it is possible to set the amount of slurry spread per hectare and then the SlurryMaster 6000 automatically adjusts the necessary dosage depending on the speed of the tractor. Optional extras include a printer for full traceability of application operations and a joystick for improved manoeuvring of the pumping tower and of the PG slurry tanker in general.



## » SURFACE TREATMENT

The slurry tankers from SAMSON are produced of high strength steel. They are sandblasted followed by a high quality finishing coat. Two coats of epoxy paint inside, combined with two coats of bi-component polyurethane finishing paint outside ensure maximum life time and a high re-sale price for SAMSON slurry tankers.



## » HYDRAULIC SUSPENSION

All SAMSON-PG slurry tankers\*\* are fitted with hydraulic suspension as standard. This technology ensures even load distribution on each wheel (axle) and optimal safety during application operations and when driving on public roads.

## » ADDITIONAL EQUIPMENT AND ACCESSORIES

### » NEW SAMSON SAP ARM WITH EJECTOR AND CENTRIFUGAL PUMP

The new SAMSON SAP arm can be purchased for all PG slurry tankers. The SAP system uses a SAMSON pump with a capacity of approximately 6,000 L/min\* and the SAMSON venturi ejector has a capacity of approximately 3,500 L/min\*. This system has been developed for filling the slurry tanker from slurry storages under stables, difficult to access lagoons, various tanks, biogas plants and supply vehicles. It is a flexible solution for the pumping of many different types of slurry and substrate. The ejector has a double purpose. Firstly it can prime the centrifugal pump at the end of the SAP arm. Once the slurry reaches the centrifugal pump it takes over and the ejector can be turned off. Its second purpose is the sucking up of thick slurry from great depths, which can be challenging with a centrifugal pump. In addition the ejector has its own coupling where a hose can be connected.



### » PUMP TOWER ARM

All PG slurry tankers can be fitted with a hydraulic pump tower arm which can turn/rotate up to 114 ° to each side of the slurry tanker. The pumping capacity is 8.000-11.000 L/min depending on the selected pump system\*. It is perfectly suited to pump slurry from a concrete slurry tank or to pump from a buffer container in the field into the slurry tanker. It allows the slurry tanker to be completely filled. Surplus slurry or foam will be returned to the slurry storage once the slurry tanker is completely full.

The pump tower can be controlled perfectly from the SlurryMaster 6000 terminal or its joystick (optional extra). The pump tower arm has a telescopic function. It can reach a depth of 4 meters below the level of the tanker.



### » SAMSON EJECTOR FILLING SYSTEM

All SAMSON PG tankers can be filled using only the SAMSON ejector. This system has a capacity of 3,500 L/min\* depending on lift height. With this solution the tank is vacuum free. The performance of the ejector alone is still higher than most vacuum solutions and the energy consumption is lower. The system is driven by the tractors PTO and is virtually maintenance free. For machines equipped with the SAMSON SAP arm or with a fixed filling pump, the ejector system is an integrated part of the solution.





### »» 3-POINT HITCH

All SAMSON PG slurry tankers can be equipped with a powerful hydraulic 3-point hitch/lift with double acting cylinders. It can both lift and press on the injectors/incorporators. The 3-point hitch/lift can also hydraulically stabilise the working depth of the injectors/incorporators. The 3-point hitch/lift is totally integrated into the rear of the tanker and has a lifting capacity of 3.8T. When spreading using SAMSON injectors/incorporators, it also allows load transfer of up to 5.0T from the tanker onto the equipment. All functions of the 3-point hitch/lift are programmed and controlled by the SlurryMaster 6000 computer.



### »» ELECTRONIC WHEEL STEERING

SAMSON PG slurry tankers can be fitted with electronic wheel steering. On the two axled slurry tankers, PG15, 18 and 20, the wheel steering is on the rear axle, while on the three axled slurry tankers, PG21 and PG25, it is on both the front and rear axle. This system significantly reduces operating costs by reducing tyre wear.

Safety when driving the slurry tanker and the ease of performing difficult manoeuvres are also considerably improved. To improve stability when driving on public roads, the SlurryMaster 6000 unit automatically locks the axles when a certain speed is reached.



### »» HYDRAULIC WHEEL DRIVE

SAMSON slurry tankers PG 20/21 and 25 can be equipped with a hydraulic wheel drive function. This has an effect of about 50 kW at the middle axle and works stepless until 14 km/h. On the two axle machines the hydraulic wheel drive function is on the front axle. The system supports the tractor drive. Difficult terrain – for example very hilly, sloping or wet – can be supplied with slurry faster or with greater precision when the slurry tanker is equipped with hydraulic wheel drive. This feature also reduces the wheel spin of the tractor and thereby subsequent damage to the crops.

\*All data concerning flow rates for pumps are based on standardised flow rates using water.

\*\* Not the PG15 model







# » PG: Key Selling points

## » Long lifetime

### Strong construction

- The tank is made from 5 mm thick steel (S235)
- The two stiles are made of hardened steel (S355)
- The wheel brackets are made of Domex 600 high tensile steel
- Fully welded chassis
- Over dimensioned traction triangle
- The low centre of gravity reduces the daily vibrations in the entire construction of the tank
- Can easily carry wide and heavy equipment like drip hose booms, disc injectors and tooth incorporators

**Less corrosion** – due to the strong surface, both inside and outside the tank. The inside surface of the tank is treated with epoxy

**Strong pump** – low sensitivity towards stones and other foreign objects in the slurry

## » High efficiency

### High stability – faster driving and more loads per hour

- The wheels are positioned on the side of the tank - the result is a low centre of gravity making it possible to drive faster on the road and in the field
- Hydraulic suspension system

### Efficient working machine

- Possible to use wide drip hose booms, tooth incorporators and disc injectors
- Rapid changing from one type of equipment to another – hitched to the tanker
- With pump tower or SAP-arm the driver can stay in the cabin during loading

### Efficient loading and unloading centrifugal pump

- High and stable loading and unloading capacity, up till 12.000 liters per minute
- The pump is ready for immediate use, a vacuum pump needs time to build up pressure
- Many different types of liquids can be handled – less operation stops

## » Optimal spreading of slurry – optimal yield

- Due to the high driving speed and high capacity of the pumps loading and unloading the slurry the nutrients in the organic fertilizer can be supplied to the crops in the short growth period and on the days when the weather conditions allows efficient spreading of organic fertilizer



- The centrifugal unloading pump ensures a more accurate and reliable dosing in the spreading equipment (in the total width of the equipment) than a vacuum unloading pump
- The SAMSON slurry master 6000 computer and the flow meter ensure a high dosing standard per hectare.
- The weight of the tanker is low compared to its size minimizing the damage on the fields and on the crops
- The tank is built in sections and the rear end is emptied first, ensuring a high weight transfer onto the tractor and minimizing the risk of wheel spin and damage to the field and the crop

## » Low energy consumption (fuel)

- The weight of the tank is low, despite its size
- Less pulling power needed since the tanker is emptied in the rear end first
- With the wheels positioned on the side of the slurry tanker it is possible to use wheels with a larger diameter resulting in lower wheel resistance

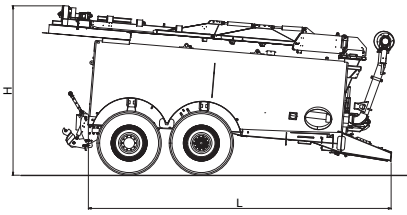
### Efficient unloading centrifugal pump

- Needs less energy transfer from the tractor PTO than a vacuum pump
- The pump is ready for immediate use, a vacuum pump needs time to build up pressure

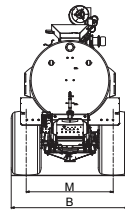
## » Low maintenance costs

- Strong machine, less service necessary
- Low cost per cubic meters spread slurry – during the lifetime of the SAMSON PG slurry tanker compared to the competition

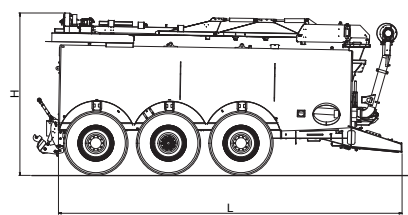
# » TECHNICAL SPECIFICATIONS



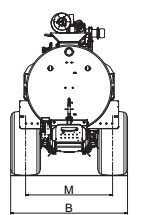
PG15-20



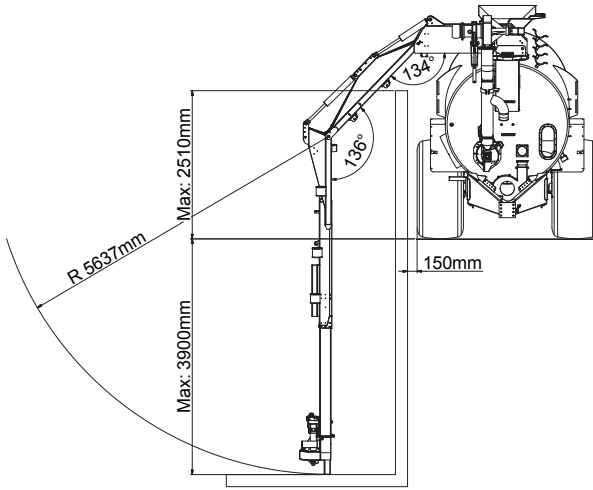
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PG21-25

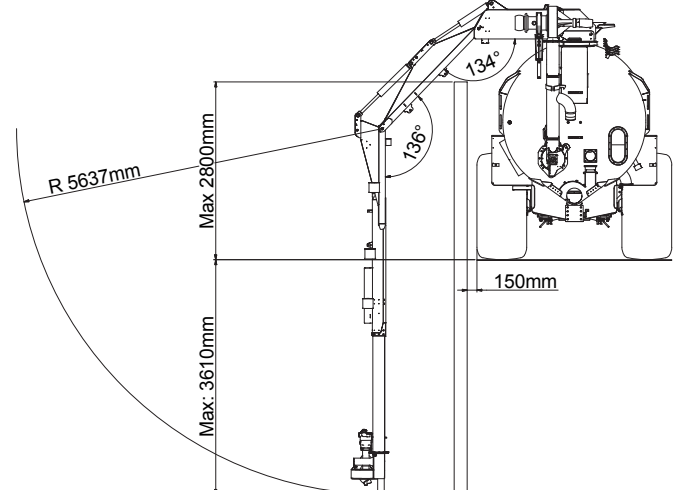


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PG15-20

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PG21-25

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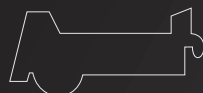
Technical specifications of PG tankers (mm)		PG 15	PG 18	PG 20	PG 21	PG 25
Length	[L]	7825	7825	8425	9425	9425
Diameter of the tank	[Ø]	1850	2050	2050	2050	2200
Height, depending on equipment	[H]	4000				
Width, depending on wheels mounted, without spreading equipment		From 2530 to 3170				
Wheel configuration (Alliance or Nokian)		480/80 R34; 650/60 R30,5 (Standard); 710/55 R34; 750/60 R30,5; 800/50 R34; 850/50 R30,5				
Track width	[M]	2200				
Empty weight for basic tanker (kg) (not contractually binding)		7100	7600	7800	9700	9900

Weight of additional equipment	
Pump tower arm	Approx. 1300 kg
SAP pumping arm	Approx. 400 kg
Rear hitch/lift	Approx. 500 kg

Brochure 70014-000



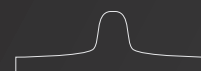
PG/PGII/PGV/SG



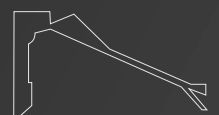
SP/SPE-B/FLEX



SB/SBX



CM/CMX/TE/TD



RV