

# » SAMSON SG SLURRYTANKER



*Samson*<sup>®</sup>

- growing together



## » SAMSON AGRO's SG slurry tankers with swan neck drawbar

The slurry tankers from SAMSON AGRO are available in two models: the SG23 with a tandem axle and 22.6 m<sup>3</sup> tank volume, and SG28 with a triple axle and 27.8 m<sup>3</sup> tank volume.

The swan neck drawbar for the SG series has been designed to transfer maximum weight onto the tractor. This means that a fully loaded SG28 transfers more than 10 tonnes of its weight to the tractor's 110 mm Scharmüller ball hitch. This improves the traction of the tractor and optimizes the weight distribution between tractor and tanker in the field.

Like all other SAMSON slurry tankers, the SG tanker is very compact. The axles are located at the very rear of the vehicle and the tractor-tanker unit has full manoeuvrability with a minimal turning circle. This means that even small fields pose no problem. The swan neck drawbar can be adjusted heightwise to fit different tractors with different tyre sizes and heights of the ball hitch.

### Pumps

SAMSON SG slurry tankers can be supplied with a fully hydraulic pump tower. A high-capacity hydraulic pump (350 bar standard pressure) connected to the PTO of the tractor drives both the load-

ing pump on the pump tower and the discharge pump. However, if suction is selected on the pump tower the tractor's hydraulics will power the pump.

All pumps delivered with the SG slurry tankers are the well-known and high-power SAMSON AGRO pumps.

### Performance data for loading and discharge pumps\*

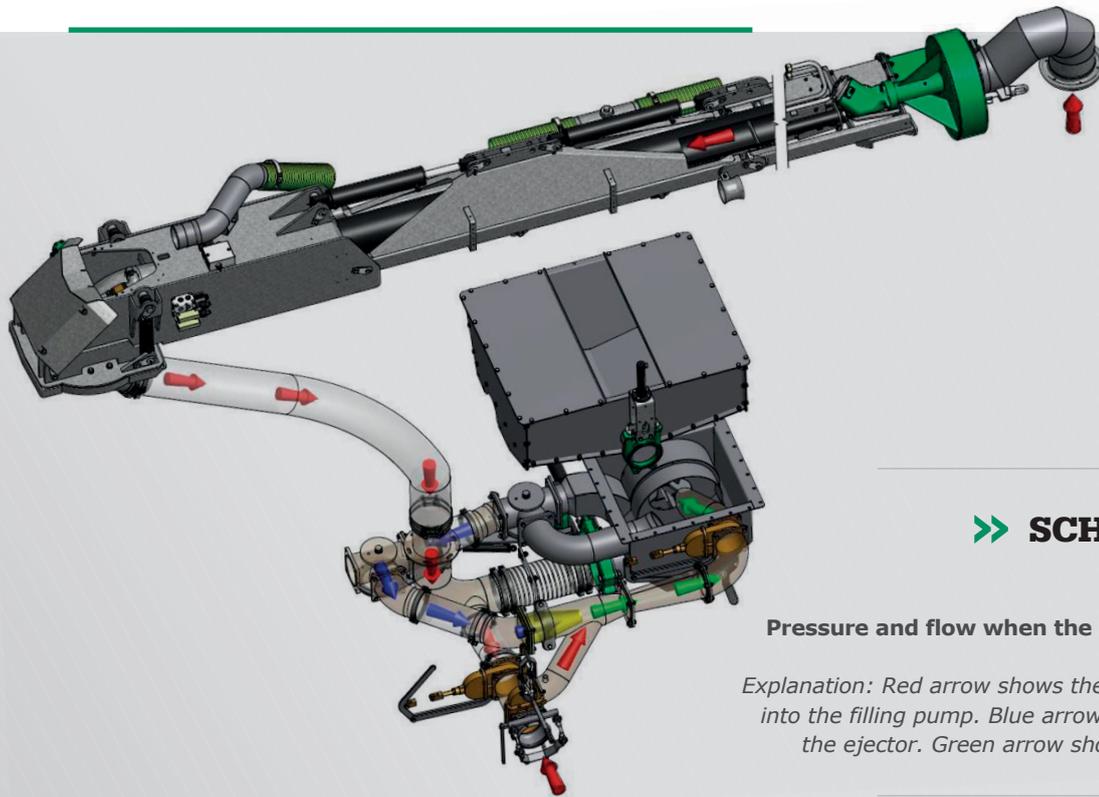
An optional extra for the SG slurry tanker is a pump tower (8") for loading the tanker, providing a capacity of up to 12,000 litres per minute. A pump tower is also available with the new SAMSON AGRO ejector system. This has a loading capacity of approximately 7,500 litres per minute. When applying slurry with a SAMSON AGRO implement – such as the driphose boom (SB/SBX), the incorporator (CM/CMX) or the injector (TD/TE) – the SAMSON discharge pump on the SG slurry tanker can pump up to 12,000 litres per minute with wheel drive, which provides an optimal hydraulic power. With a standard fully-hydraulic transmission, the discharge capacity is approximately 9,000 litres per minute. Flow and dosage gauges are also standard equipment on the SG tankers.

\* All performance data are based on the use of water



## » EXTRA EQUIPMENT

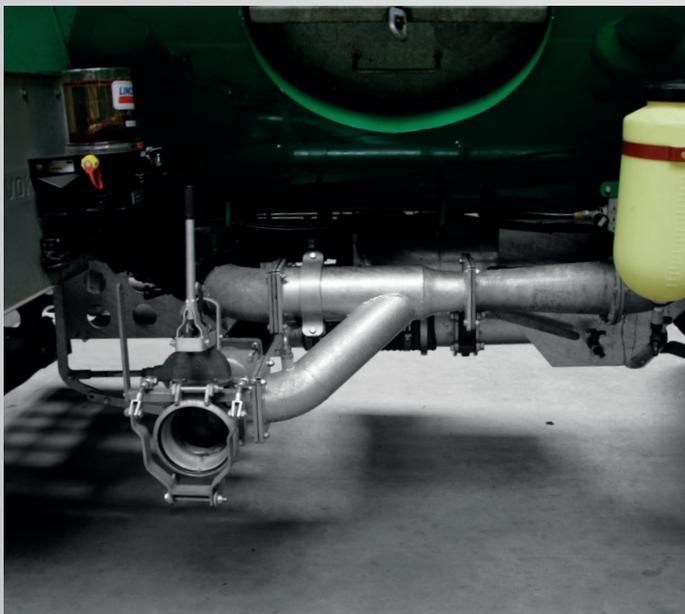
# Ejector on SG



## » SCHEMATIC DIAGRAM OF EJECTOR

Pressure and flow when the loading pump is under suction.

Explanation: Red arrow shows the vacuum that draws the slurry up into the filling pump. Blue arrow shows pressurized slurry driving the ejector. Green arrow shows the unpressurized slurry flow.



## » EJECTOR SUCTION

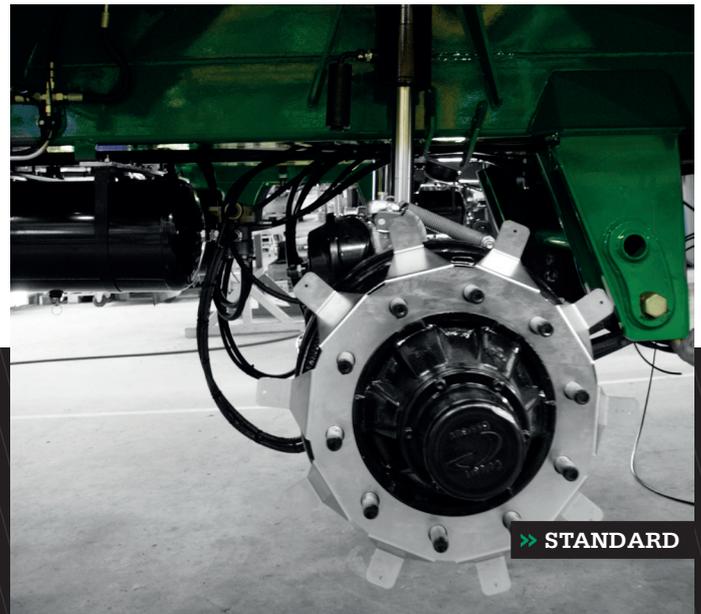
When using the ejector, the filling pump on the pump tower can be primed for filling. Once the pumphouse on the filling pump has been filled with slurry it automatically takes over the loading. The new ejector system has stood its test on the SAMSON AGRO slurry tankers and has been adjusted and improved for the SG tanker.



## » EMPTYING THE TRUCK WITH SLURRY

With the ejector system, the loading pump can be primed for suction so that slurry can be drawn from, for example, underground storage facilities or a tank truck that has no pump.

## »» EXAMPLES OF **STANDARD AND EXTRA EQUIPMENT/ACCESSORIES**

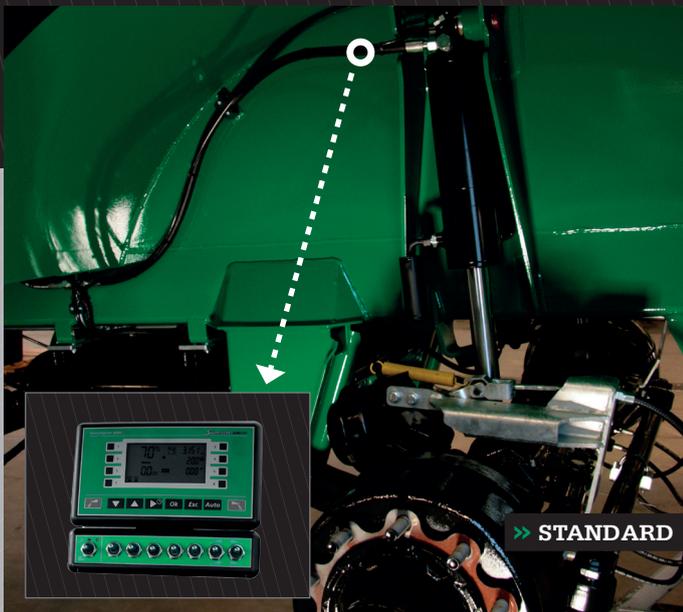


### »» **HYDRAULIC WHEEL DRIVE**

Hydraulic wheel drive with reverse function is also an optional extra. With hydraulic wheel drive, about 50 kW can be transmitted to the tanker's fixed axle. In very hilly, uneven or soft terrain, the SAMSON hydraulic wheel drive is the obvious choice for optimal driving with better traction and fewer slippages, making driving under more difficult conditions possible – for example, when driving uphill using a grassland injector. The ability to reverse means the driver can often get himself unstuck when bogged down.

### »» **HYDRAULIC SUSPENSION**

All SG slurry tankers have hydraulic suspension as standard. The hydraulic suspension ensures an optimal weight distribution to all wheels. It likewise prevents the tanker from tilting when going around sharp corners or when driving on slopes.



### »» **AUTOMATIC LOADING SYSTEM**

SAMSON SG tankers are fitted with auto-load and weight control. The electronic system can be adjusted to automatically stop when the desired volume has been loaded and the total weight of the vehicle can thus be limited.



### »» **SLURRYMASTER 6000 WITH SM JOYSTICK**

With the SAMSON SlurryMaster6000 dosage computer, the driver can control the filling of the tanker and the dosage rate during application. All hydraulic functions can be monitored from the computer. The SM Joystick facility makes the handling of the slurry tanker much easier and more ergonomic – including the “dog-walk” feature.

»» EXAMPLES OF **STANDARD AND EXTRA EQUIPMENT/ACCESSORIES**



»» STANDARD

»» **LIFT**

The SAMSON SG slurry tanker comes equipped with a strong lift with approximately 3.6 tonne lifting capacity. It can apply pressure of up to 5 tonnes, for example when using a slurry injector on grassland. The lift functions can be automatically controlled via the SlurryMaster6000, which also has an integral individual depth regulation for exact control of implements.



»» STANDARD

»» **ELECTRONIC WHEEL STEERING**

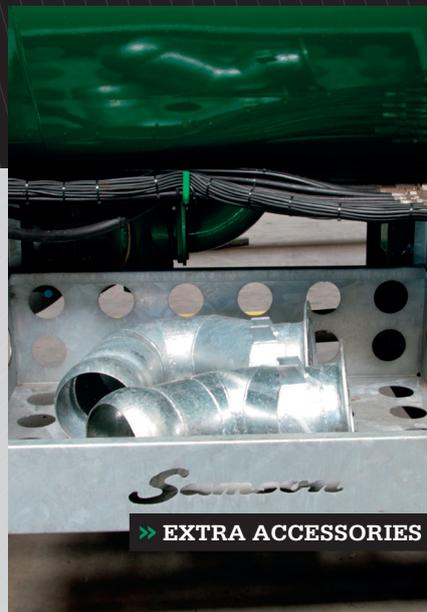
The SAMSON SG slurry tanker has electronic wheel steering as standard. The triple-axle SG28 has electronic steering on the front and the rear axles, while the tandem axle SG 23 tanker has electronic steering on the rear axle.



»» STANDARD ON SG28

»» **BPW AXLES AND BRAKES ON SG28**

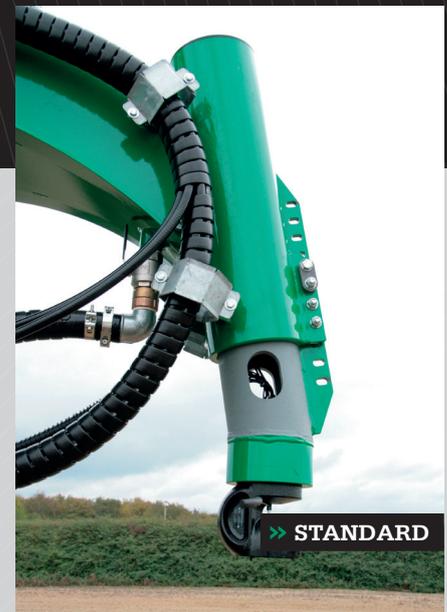
SG23 is fitted with Colart axles and brakes. This is also standard on, for example, the well-known SAMSON AGRO PG slurry tanker series. The SG28 is fitted with axles and brakes from BPW.



»» EXTRA ACCESSORIES

»» **STORAGE BOX FOR CONNECTORS**

SG tankers can be fitted with a handy transport and storage box on the side of the tanker. This can be used for carrying suction connectors, Andock funnels, etc.



»» STANDARD

»» **HEIGHT-ADJUSTABLE SWAN NECK**

The SG slurry tanker has a height-adjustable swan neck that can be adapted to different tyre sizes on the tractor and slurry tanker.



Why you should buy an

## **SG** Slurry Tanker

### » **Durability**

#### **Strong construction**

- The tanker is made using 5 mm steel
- The two underframe flanges are made of hardened steel (S355)
- The wheel brackets are made from Domex S600 high-tensile steel
- Fully-welded chassis
- The swan neck is made from high-tensile steel
- The wheels are located on the side of the tanker – this gives a low centre of gravity, making the construction more stable.
- Less corrosion – tough internal and external surfaces. The tanker is epoxy-coated internally.
- A centrifugal pump is powerful and less sensitive to stones and other foreign objects in the slurry

### » **Efficiency**

#### **High stability**

- The low centre of gravity gives a more stable structure and permits faster driving both in fields and on the road. This means that the job gets done faster
- Hydraulic suspension also gives a more stable driving experience

- High loading and discharge capacity of up to 12,000 litres per minute

#### **Effective workhorse**

- Construction/design of the wagon gives exceptional manoeuvrability and a very small turning circle
- The empty weight is low relative to its size, which allows for a high payload
- Wide implements such as driphose booms, injectors and incorporators can be used
- Changing implements is quick and simple
- With the pump tower facility the driver can remain in the tractor cabin during the filling of the tanker
- The SG slurry tanker is fitted with auto-load and weight control as standard. Loading automatically stops when the desired volume has been loaded. This avoids the carrying of excessive loads on public roads

#### **Efficient centrifugal pump for discharging**

- The pump is ready primed, in contrast to a vacuum system which needs time to build up pressure
- The pump can handle many different types of liquid with no halts in operation
- The pump is not sensitive to stones and other foreign bodies in the slurry, resulting in fewer stoppages



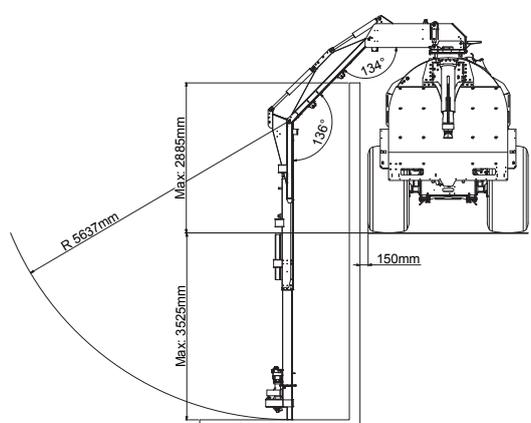
## » Optimal application of slurry - optimal yield

- The slurry tanker can be fitted with implements such as driphose booms, and injectors for grass and black soil, which can increase the utilisation of the slurry
- In contrast to a vacuum pump, the centrifugal pump on the SG tanker exerts a higher and a more constant pressure. This results in a more precise dosing along the entire width of the implement
- The computer and flow gauge in the SAMSON Slurry-Master 6000 also ensures a very precise dosing
- The tanker transfers much of its weight to the tractor's ball hitch. This gives the tractor excellent traction and power to pull the tanker. This considerably reduces wheel slip and damage to the soil
- The tank is built in sections and the rear section is emptied first, ensuring good weight transfer to the tractor even when the tank is nearly empty. This also minimises the risk for wheel slip and damage to the soil
- Because of the high loading and discharge capacity, there is a greater chance of being able to make use of the narrow window of opportunity for applying slurry when it is most favourable for crop growth and when weather and soil conditions are optimal
- With the SG slurry tanker the "dog walk" feature can be fully utilised

## » Low maintenance costs

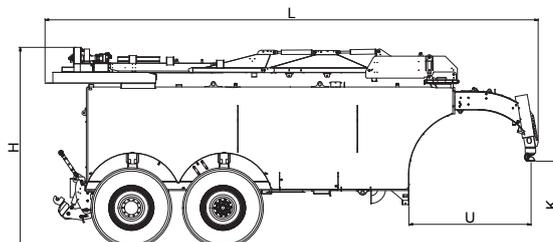
- The SAMSON centrifugal pump is not sensitive to stones and other foreign bodies
- The centrifugal pump is made from standard components and new components are readily available
- The discharge pipe is galvanised and bolted onto the wagon so that it can easily be modified and replaced
- A Danfoss PVG32 valve is fitted as standard

## » TECHNICAL SPECIFICATIONS

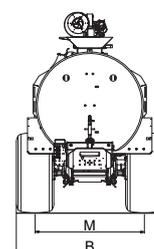


SG23-28

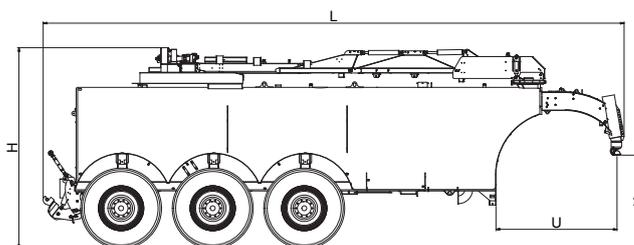
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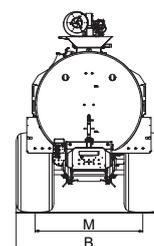
SG23



NR: 5000816-001



SG28



NR: 5000818-001

Dimensions in mm / tanker size		SG 23	SG 28
Lenght	[L]	10290	12280
Lenght	[L']	9420	11380
Tanker diameter		2200	
Height, depending on equipment	[H]	4000	
Ball height	[K]	1530 - 1992	
Length of swan neck	[U]	2460	
Nav-gauge	[M]	2200	
Alliance 650/60 - 30,5. Diagonal type 328	[B]	2730	
Alliance 650/60 - 30,5. Radial type 380	[B]	2744	
Alliance 750/60 - 30,5. Radial type 390	[B]	2975	
Alliance 850/50 - 30,5. Radial type 390	[B]	3165	
Nokian 710/55 R34 ELS	[B]	2910	
Nokian 800/50 R34 ELS	[B]	2960	
Volume, capacity (l) <sup>1</sup>		22600	27800
Weight, incl. pump tower and 750 mm wheels (kg)		12100	15100
Ball load without equipment, empty tanker, kg		3000	3700
Ball load without equipment, full tanker, kg		8400	10200

<sup>1</sup> When the ejector (if mounted) is used for filling, 400 liters of the capacity is used for starting the ejector. (retention system)