



GROWING TOGETHER

SAMSON US 2-3



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SAMSON US

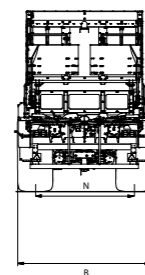
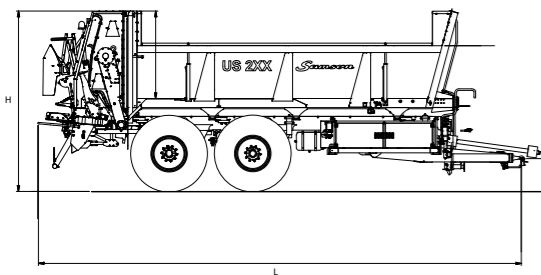
High capacity, dosing precision and versatility characterise the market's largest spreader: SAMSON US. The model is available in a 2-axle and 3-axle version, US 2 and US 3.

Spreader of the future with SAMSON quality

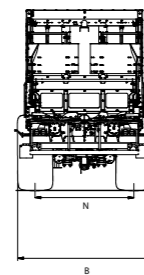
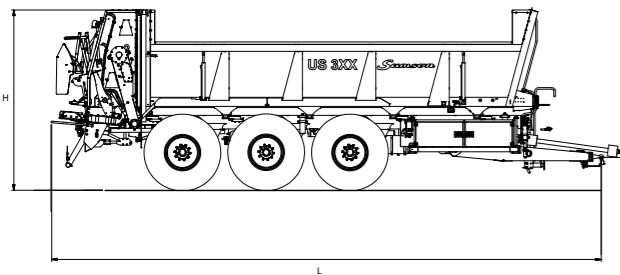
A muck spreader is no longer a small, single axle machine that only spreads the deep litter produced on the farm. The volume of material and number of material types that can be spread is steadily increasing, and the requirements for application efficiency, the utilisation of nutrients in fertilisers and the protection of our environment are also increasing. The universal spreader SAMSON US has been developed to meet all future requirements. And it's all delivered in the well-known SAMSON quality.



Basic model



SAMSON US 2 has 2 axles and is available in 3 volume sizes from approx. 23 to 35 cubic metres. SAMSON US 3 has 3 axles and is available in 3 volume sizes from approx. 28 to 40 cubic metres. Both US 2 and US 3 are equipped with a hydraulically suspended chassis, three horizontal beaters, a universal spreading table with plates and four carpet chains.



Capacity, precision and versatility

SAMSON US has a wide range of unique features and solutions, making it the largest spreader on the market with a very high capacity, dosing precision and versatility.

- Box, triangle and beaters are made of high-strength steel for a low net weight and long service life
- Four strong carpet chains with a high tensile strength ensure uniform distribution of the load
- The wide box provides a low loading height and extra large volume
- High precision spreading discs with a large working width
- Quick and easy adjustment for the perfect spreading picture

- Hydraulically suspended axles
- The machine can be fitted with wheels up to 1.68 m in diameter
- The SpreadMaster 8500 control system provides full control of the machine and its functions. The control ensures uniform spreading and optimises the utilisation of nutrients in the material
- The model is available with static or dynamic weighing, which in combination with the SpreadMaster 8500 enables ultraprecise dosing
- The SpreadMaster 8500 allows dosing and documentation based on an application map

Hydraulic suspension and electronic wheel steering

SAMSON US is equipped with hydraulically suspended axles. The hydraulic suspension is already well known from SAMSON slurry tankers. The US spreader can also be equipped with hydraulic triangle suspension, further improving driver comfort. The front axle can be supplied with axle lift on US 3, so more weight can be placed on the tractor in the field, reducing tyre wear on the road. On both US 2 and US 3, extra large wheels can be fitted with a diameter up to 168 cm. They are the largest possible

wheels on the market for universal spreaders. This increases tread surface, reduces rolling resistance, reduces traction demand and minimises fuel consumption. This also helps to reduce structural damage in the soil. US 3 is supplied with electronic wheel steering on the front and rear axles so it follows the tractor in the best possible way. US 2 can be equipped with electronic wheel steering on the rear axle as an option. Both models can be fitted with hydraulic triangle suspension.





Flexible spread settings

The actual spreading is done with two spreading discs of 122 cm diameter with four powerful deflector wings. The wings and tailgate can be set in different ways so the optimal spreading picture can be achieved in many different types of materials. The spreading gate at the bottom of the rear gate can be adjusted quickly and easily both up and down without the use of tools. The rear gate on the spreading equipment can be opened hydraulically if the beaters become blocked. Wear parts in the spreading table are bolted on so they are easy to change.



Reduction of spreading materials for the benefit of plants

Reduction is an important parameter when it comes to utilisation of the spread material. The organic material will enter the soil and benefit the plants more quickly if it is reduced well. Reduction is particularly important in materials such as heavy cow dung or horse manure with a lot of straw. SAMSON US provides complete reduction with its three specially developed scarifying beaters.

The spreading picture is important for good utilisation of the material. Especially when spreading materials with a high nutrient content, such as poultry manure, compost or lime. Both the overdosing and underdosing of plants results in lower yields and reduced profits. SAMSON US is therefore equipped with many options for adjusting the spreading equipment, so the optimal spreading pattern can be achieved.

SAMSON US is equipped with three horizontal scarifying beaters. The beater spikes are supported on the rear as on the other SAMSON spreaders, so the risk of spike loss is minimised. The beaters are pulled by chain gears on the side of the spreading equipment that runs in an enclosed oil bath for minimal maintenance – well known and fully tested on SAMSON's other spreaders for many years. The side gears are equipped with safety couplings, so the gear boxes are not damaged if large foreign objects enter the beaters.

SAMSON US is also available with load cells for accurate dosing and documentation on where and how much material you have spread. See pages 10-11 for more details.

Precise spreading with SpreadMaster 8500

SAMSON US is equipped with the elegant and advanced **SpreadMaster 8500** control system, which is characterised by being a very precise control system with a wide range of functions to meet the needs of all professional users:

- Variable Rate Application (VRA)
- static and dynamic weighing
- spreading according to application map

Using **VRA** (Variable Rate Application) and **TC-GEO**, dosing can be set and adjusted according to the application map. The system automatically adjusts the

carpet chain speed in relation to the set dosing on the map and the current weight of material in the spreader. The result is very precise dosing for optimal crop growth and yield. VRA can also be used in relation to volumetric dosing, static weighing or dynamic weighing.

SpreadMaster 8500 is an ISOBUS system and all functions and adjustments can be operated on the SpreadMaster 8500 terminal or via another ISOBUS terminal.



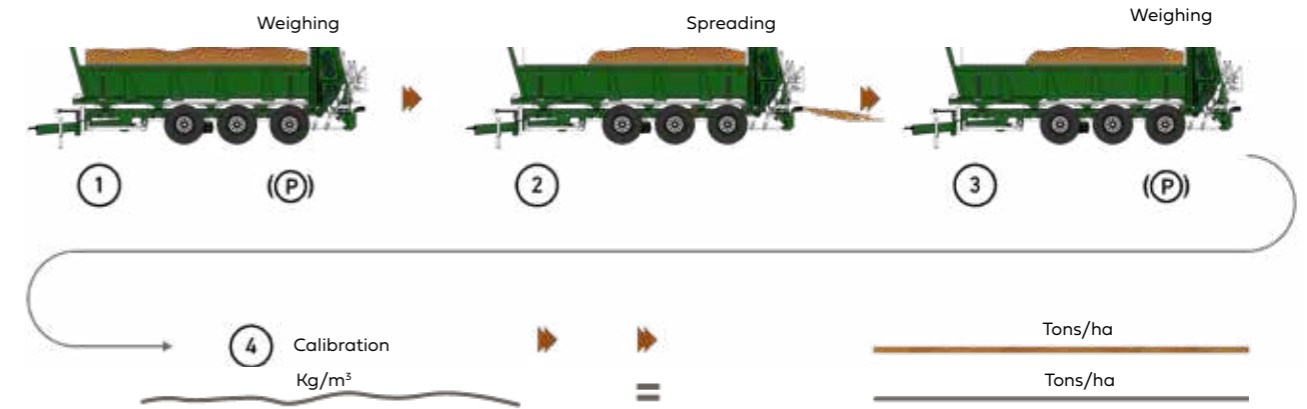
SPREADMASTER 8500



WEIGHING CELLS

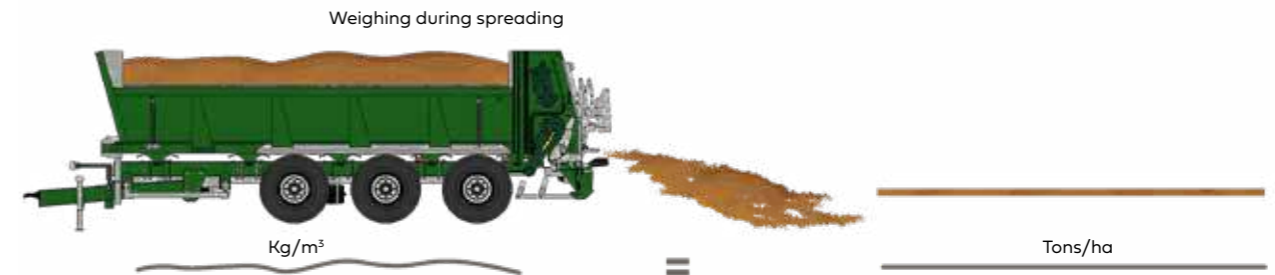
SAMSON US can be equipped with weighing cells on the load-bearing structure, so both static and dynamic weighing can be used.

Dynamic and static weighing



Static weighing. The SpreadMaster 8500 can control dosing depending on the static weight. The control system measures the weight of the spreader when stationary, when a load volume has been applied. Static weighing allows the density of the material to be determined. Once the density is known, it is possible to perform very precise

dosing with the volumetric system. This in turn leads to better crop growth and therefore higher yields. The system calculates the weights of the different loads together over the course of a day or task. In this way, the total volume of spread material can be determined.



Dynamic weighing. In combination with weighing cells, SpreadMaster 8500 can control dosing with dynamic weighing while driving. The control constantly weighs the material in the spreader and continuously adjusts the machine parameters according to the weight and the set values on the terminal, so the precise number of tonnes is spread per hectare. Although the material is not

homogeneous, dosing remains the same throughout the field. This helps to make optimal use of the nutrients for better crop growth and higher yields. The SpreadMaster 8500 allows the driver to view task data after the task is performed. The SpreadMaster 8500 displays how many tonnes have been spread, the total area, the time taken, and the number of loads.



Well thought out basic design

1. Four rugged marine chains with L-shaped carriers
2. Widest box on the market
3. Three horizontal scarifying beaters
4. Closed chain gearboxes in oil bath
5. Universal spreading table with 122 cm plates
6. Bolted wear parts in Hardox steel
7. Hydraulic rear gate
8. Adjustable spreading gate for quick and easy adjustment without the use of tools
9. Hydraulic dosing gate
10. Spreading limiter
11. Hydraulically suspended chassis
12. Electronic wheel steering
13. Weighing cells
14. Inspection hatch



Large volume. Easy to load. Uniform dosing.

SAMSON US has a completely new design that supports the functionality and technology that both current and future users will require in their daily work with a universal wide box spreader.

SAMSON US has the widest box on the market, creating the greatest possible volume without compromising on loading height and wheel diameter. The models in this series hold a volume from 23 to 40 cubic metres. Even with this large volume, the loading height is only 2.95 metres. The low loading height combined with a wide box makes the machine incredibly easy to load. The box

can be expanded with side extensions of 25 and 76 cm in height, increasing the volume to one of the very largest on the market. The box is completely smooth on the inside, so the material flows easily, evenly and unrestricted to the beaters. This contributes to precise and even dosing. The box is fitted with a large grille at the front to allow a clear view into the box from the cab when spreading. SAMSON US is equipped as standard with a strong dosing gate that can be used to precisely regulate the dosage. The height can be read off the SpreadMaster 8500 screen.

Good details for your SAMSON US



STRONG CARPET CHAIN AND CARRIER INCL. TENSIONING SYSTEM

SAMSON US is equipped with four 14x50 marine chains with L-shaped carriers that have been a part of SAMSON spreaders for many years. Each chain has a tensile strength of 24,000 kg. The carpet chain is pulled by two large carpet chain gears; one on each side. The L-shaped carriers are distinguished by the fact that they keep the floor of the box nice and clean and weigh less. SAMSON US also has a patented hydraulic tensioning system on the carpet chain. This provides optimal tension in the carpet chain, thereby reducing wear on the chain and minimising the risk of breakage.



HYDRAULIC SIDE EXTENSIONS

SAMSON US 2 and US 3 can be expanded with side extensions of 26 or 76 cm. US 2 fitted with hydraulic side extensions will have a capacity of up to 34.8 cubic metres. For US 3, this rises to 40.8 cubic metres. Hydraulic sides allow for high volume and capacity and help reduce total loading time. The ability to install or remove side extensions also creates flexibility in relation to the size of the loader used.



HYDRAULIC SPREADING LIMITERS

Hydraulic spreading limiters are available as an option for the right, left or both sides of the rear box. The spreading limiter can be operated via SpreadMaster 8500. If the tractor has AUX-N, the spreading limiter can also be operated directly via the tractor's own operating controls.



CENTRALLY LOCATED LUBRICATION POINTS

All 75 lubrication points on SAMSON US, including lubrication points on the spreading equipment and carpet chain, are located as far as possible in places and at a height that makes them easy to access and operate when standing on the ground. SAMSON US can also be equipped with central lubrication as an optional extra. The chain gears for the beaters run in an oil bath, so maintenance is minimal. The SpreadMaster 8500 system has a monitoring option to warn when the reservoir is empty.



CAMERA INSIDE BOX AND ON REAR OF MACHINE

The camera inside the box and on the rear of the machine provides full visibility and increases driver comfort. The camera is an original SAMSON HD 9" night colour. When the dosage gate is operated, the camera automatically switches focus to the gate, then after a few seconds it returns to the spreading picture. An additional 2 cameras can be added to the screen.



LARGE LIGHT PACK

A small and large light pack with 9000 and 17000 lumen respectively are available as an option for SAMSON US. This practical work light transforms night into day and provides optimal working conditions when operating the spreader box in the dark, creating an excellent overview of the entire working width of the spreader. The light can be controlled via SpreadMaster 8500.



Product development is a high priority at SAMSON AGRO. The company has a large team of engineers who continuously develop and update products to maintain our position as the leading specialist in natural fertiliser machines and related application technology.

SAMSON service and dealer network

When you choose a SAMSON product, you will benefit from our large and well-established network of dealers, who are available to provide excellent service and special knowledge of our machines and equipment.

SAMSON dealers are in close and continuous contact with SAMSON AGRO, who place great importance on individual SAMSON specialists achieving expert knowledge through the SAMSON ACADEMY training program. A smooth and efficient service concept also ensures that every customer receives professional service before, during and after a purchase.

SAMSON AGRO maintains a large stock of spare parts to ensure the fast and efficient maintenance and upgrade of all SAMSON machines and products.

A man in a plaid shirt and green gloves is working in a cornfield at sunset. He is holding a wooden handle, possibly for a tool or a piece of machinery. The sun is low on the horizon, creating a warm, golden glow. The corn plants are tall and green, with some leaves in the foreground slightly out of focus.

FERTILISER BASED ON NATURAL NUTRIENTS

SAMSON AGRO produces slurry tankers, muck spreaders and universal spreaders with the aim of achieving maximum application efficiency and optimal use of the nutrients in natural fertiliser. We supply a wide range of natural fertiliser machines, implements and application technology, where all elements in the fertiliser process are considered. Our goal is to meet the agricultural industry's demand for innovative, environmentally sound, high quality solutions for the application of natural fertilisers.

Technical specifications

Machine dimensions in metres		US 2			US 3		
		US 223	US 227	US 235	US 328	US 333	US 340
Length	L	10.54			11.99		
Total height	H	3.90			3.90		
Alliance 650/55R26.5 Type 390	W	2.85			2.85		
Nokian 800/50 R34 ELS SB	W	2.98			2.98		
Hub width	N	2.15			2.15		
Loading height*		3.00	3.30	3.11-3.81	3.00	3.25	3.06-3.76
Box dimensions (internal):							
Width		2.34			2.34		
Side height		1.16	1.41	1.22-1.92	1.16	1.41	1.22-1.92
Length (centre)		6.65	6.68	6.74	8.11	8.14	8.20
Volume to top edge , m ³		18.1	22.1	30.3	22.0	26.9	36.9
Volume with 50 cm top, m ³		22.6	26.6	34.8	27.8	32.6	42.5
Total permissible weight, kg		13,150	13,270	13,550	15,240	15,410	15,680
Total permissible weight, kg		24,000			34,000		
Traction, hp		Min. 270			Min. 330		

* With standard wheel assembly