



Manure Spreader | Universal Spreader

MS 105
MS 120



MS-Spreader

The all-rounder

Tough spreading roller drive
with cardan shafts and gearboxes

Versatile
Available as 4-rotor or 2-disc
universal spreading unit

Folding extensions
for maximum capacity with low
loading height



**Hydraulic boundary
spreading devices**
for precise spreading at the
edge of the field

Optional plastic floor
for optimal sliding properties
(standard on the MS 120)

Tough & durable
Powder-coated frame and side panels for
excellent corrosion protection

MS-Spreader

Tough, powerful and flexible – this is what you can expect from the MS-Spreader from Strautmann. The machine is ideal for farms that operate their own machinery or machinery collectives that hire out machines. Equally effective as either a manure spreader or universal spreader, the MS-Spreader impresses with its high performance, low driving power requirements and clean spreading pattern. A wide variety of equipment variants offer the right configuration for every customer.

- A compact, versatile spreader for a wide range of applications
- Two models with a gross vehicle weight rating of 8 to 15 tonnes
- The ideal machine for farms that operate their own machinery and machinery collectives
- Versatile use thanks to a wide range of equipment variants

Spreading units

4-Rotor spreading unit



The 4-rotor spreading unit of the MS-Spreader is ideal for the efficient spreading of solid manure. A high application rate with fine and even lateral distribution is achieved thanks to the low power requirement of the unit.



Spreading rotors

The spreading rollers are equipped with tough spreading segments made of Hardox. The fan-shaped design ensures that the manure is broken up very finely. The strong shredding performance enables a very fine spreading pattern, while also accelerating the decomposition process of the organic fertiliser on the field.



Drive system

Each spreading rotor is driven by a separate oil bath gearbox. This ensures reliable power transmission and a long service life of the drive components. This drive concept is also characterised by very smooth running and minimal maintenance requirements



Tailgate

The hydraulic tailgate of the 4-rotor spreading unit closes off the spreading unit when travelling on the road. This prevents any loss of material. The tailgate also covers the bearings of the spreading rotors and reliably protects them from contamination.



Maintenance

The lubrication points of the spreading rotor bearings are easily accessible through lubrication lines that are routed downwards. This simplifies maintenance considerably.

Proven spreading quality

Universal spreading unit



Universal spreading unit

The universal spreading unit is suitable for a wide range of applications with different spreading materials. The working width of up to 21 metres allows the unit to achieve a high output per unit area. Spreading discs with six spreading blades ensure optimum lateral distribution in all conditions.



Horizontal rotors and spreading discs

The rotors of the universal spreading unit are equipped with rotating Hardox tines. These shred the spreading material and transfer it to the spreading discs. The large spreading discs are each fitted with six spreading blades. This ensures optimal lateral distribution of all spreading materials. The spreading discs, spreading blades and wear plates are made of wear-resistant Hardox steel. This makes the MS-Spreader well-suited for even the toughest applications.



Hydraulic dosage gate

Fine components such as lime or compost can also be spread in a controlled manner using the hydraulic dosage gate. This is fitted as standard on the universal spreading unit and is available as an option for the 4-rotor spreading unit. A dosage gate indicator on the front panel allows the gate position to be checked from within the tractor.



Boundary spreading device

For spreading along field boundaries and bodies of water, the universal spreading unit can be equipped with hydraulic boundary spreading deflectors on the left, right or both sides.

This ensures precise and clean working at the edge of the field. In addition, the full application rate is applied right up to the boundary. This ensures high crop yields even at the field boundary.



Chain drive

The cutting rotors are driven by a large roller chain. The optional oil lubrication system reduces maintenance requirements and guarantees reliable lubrication of the drive.



Cardan shaft spreading unit drive

A drive system with cardan shafts and gearboxes is available for heavy-duty customer requirements. This impresses with its low maintenance requirements and long service life, reliable power transmission and very smooth running.



Adjusting the spreading unit bonnet

The height of the spreading unit bonnet can be adjusted, allowing you to react quickly and easily to changing conditions and different spreading materials. This ensures optimal lateral distribution at all times.



Superstructure Transport floor



Wooden floor

The MS 105 is equipped with a wooden floor and four 10 mm thick round steel chains as standard. Two transport floor lines transport the load to the spreading unit. A plastic floor with 13 mm thick round steel chains is optionally available for use with heavy and sticky spreading materials. This makes the MS 105 suitable for even the toughest applications.



Plastic floor

The tough plastic floor with 13 mm thick round steel chains is standard equipment on the MS 120. Roof profiles on the transport floor rails ensure the reliable transport of fine-grained and sticky spreading materials.



Large chain sprockets

The chain sprockets are very large with 6 pockets. This significantly reduces the turning angle of the chains. Chain wear is minimised as a result.



Automatic chain tensioner

The MS-Spreaders are equipped with an automatic chain tensioner to minimise maintenance requirements. A spring reliably maintains the tension of the transport floor chains.



Tough side panels

The bolted side panels are made of folded metal and give the superstructure maximum stability with a low dead weight. The ACC priming and powder coating provide lasting protection against corrosion.



Folding extension panels

250 mm high manually folding extension panels are available to increase the capacity for use with light spreading materials. The loading height can be reduced by simply folding them down for small loading vehicles. This allows for a low loading height with maximum loading capacity.



Lighting

The MS-Spreaders are equipped with LED lighting as standard for good visibility. The machines can be equipped with up to five LED work lights for working long into the night. A work light on the front panel illuminates the cargo area. Up to four additional work lights on the spreading unit provide an optimal view of the spreading pattern in the dark.

Superstructure

Drawbar and chassis



Depending on the requirements, the MS-Spreaders can be equipped with a top or bottom hitch. The drawbar of the MS 120 is mechanically sprung to give the spreader optimal handling characteristics.



Single axle

Both MS-Spreader models are equipped with a single axle as standard. Large tyre sizes of maximum 710/45 R 22.5 (MS 105) or 800/45 R 26.5 (MS 120) ensure a smooth ride, while increasing the drawbar load at the same time.



Tandem axle

The tandem chassis is characterised by low ground pressure and a lower overall height. The 4-spring chassis provides a high level of ride comfort and can be fitted with a maximum tyre size of 650/40 R 22.5 (MS 105) or 710/40 R 22.5. A steering axle is available as an option for the MS 120 for even better ride comfort.



Operating variants



Simple direct connection
The hydraulic functions are operated via the direct tractor connection. The transport floor speed is set via the flow control valve.



E-Control light
The hydraulic functions are operated via the direct tractor connection. The speed of the transport floor can be adjusted using a rotary potentiometer. An integrated speed monitoring function provides additional safety by automatically stopping the transport floor in the event of overloading. The E-Control light system can also be used to switch the work lights on and off.



E-Control
All hydraulic functions can be easily operated using toggle switches on the E-Control system. The speed of the transport floor can be controlled precisely and steplessly via a rotary potentiometer. Additional safety is provided by the integrated speed monitoring function, which automatically stops the transport floor in the event of overloading, thus ensuring a smooth workflow.



Trip counter
This supplements the direct connection and E-Control system. It counts the trips and hours, while the data in the daily counter can be deleted.



Technical data

	MS 105		MS 120	
	Single axle with overrun brake and tyres 560/45 R 22.5	Single axle with air brake system and tyres 560/45 R 22.5	Single axle and tyres 710/50 R 26.5	Tandem axle and tyres 560/45 R 22.5
Dimensions				
Height [m]	2.99	2.99	3.38	3.23
Outside wheel width [m]	2.36	2.46	2.61	2.51
Loading height [m]	2.12	2.12	2.51	2.36
Length [m]	6.82 – 7.25	6.82 – 7.25	7.58 – 8.05	7.58 – 8.05
Dead weight				
with 4-roller spreading unit from [kg]	2,800	2,900	4,600	4,900
with 2-disc wide-angle spreading unit from [kg]	3,200	3,300	5,000	5,300
Gross vehicle weight rating				
with top hitch [kg]	8,000	10,000	12,000	14,000
with bottom hitch [kg]	–	10,000	13,000	15,000
Power requirement				
Power requirement from	52 kW / 70 hp		74 kW / 100 hp	
Inside dimensions of superstructure				
Length [m]	4.60		5.32	
Length up to dosage gate [m]	4.20		4.92	
Width [m]	1.80		1.80	
Side panel height [m]	0.75		0.95	
Loading capacity				
Loading capacity [m³]	10.5		12.0	
Loading capacity up to dosage gate [m³]	9.5		11.0	
Spreading unit				
Spreading unit clearance [m]	1.25		1.25	
Dosage gate clearance [m]	1.25		1.25	

Figures, technical data and weights are subject to change due to technical development and are not binding for delivery.



www.straumann.com

B. Straumann & Söhne GmbH u. Co. KG



Bielefelder Strasse 53
D-49196 Bad Laer, Germany
Phone: +49(0)5424/802-0
info@straumann.com
www.straumann.com