



Manure / Universal spreaders

VS 1204 - VS 2004



steautmann

A New Generation - VS-spreaders

50 years of experience in the field of muck spreading enable Strautmann to offer a range of spreaders meeting the needs of farmers and contractors. Today the range starts with the BE 4 (gross weight of 5,800 kg) and goes up to the VS 2403 (gross vehicle weight 24,000 kg). Two horizontal beaters, four vertical beaters or two spinner discs cover a wide range of applications reaching from manure to compost and lime. The machines are constantly updated as demonstrated by the 04-series of the VS-range:



The operations are simplified, the optics are more attractive and standard axles are available. Due to the newly incorporated propeller shafts exclusively fitted with cap bottom lubrication on the VS universal spreaders and therefore easy and fast to lubricate, the maintenance of the machines is significantly simplified.



Furthermore, the lubrication points of the drive shaft and the supporting leg can be optionally consolidated at a central spot. In the course of this modernization of the VS series, Strautmann also offers an entry level model with hydraulic functions operated directly via the control devices of the tractor. Furthermore, the availability of standard tandem axles for spreaders up to a gross weight of 22 t brings about a lower price for easy-to-handle machines.



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High throughput rate most precise distribution

The VS 1204 to VS 2004 are designed for a wide range of applications. Standard equipment of these machines is comparatively high and appreciated by professional farmers and contractors. In addition there are options available, i.e. the weighing system for the 1804 and 2004, which enable operators to reach a new level of precision in application and documentation.



4-auger spreading unit (series)

Four aggressive augers and a clearance of 1.46 m ensure a fast discharge. Exchangeable tines made of high-strength steel distribute the material homogeneously over a spreading width of up to 8 m. Easily accessible, joint lubrication points simplify the maintenance of the spreading unit, thus creating the basis for a long service life. The sense of rotation of the outer spreading augers is unique on the market. The benefits are: Excellent lateral distribution and optimum protection against damage by large foreign objects.



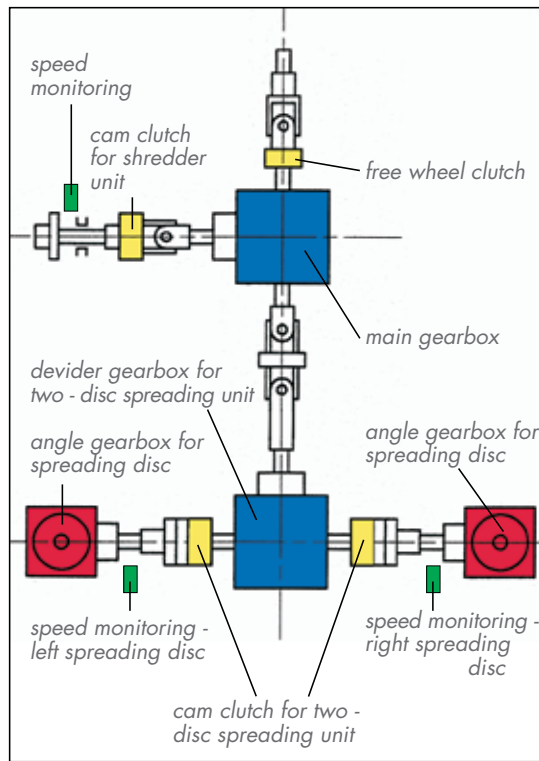
Universal spreading unit (optional)

The material is milled off in metered amounts by the screwed, rotatable and exchangeable tines of the horizontal augers and drops down to the spinning discs from which it is widely distributed to the rear and to the side. A rubber lining inside the bonnet of the spreading unit prevents the bonnet from being damaged by stones.



Solid spreading unit drive

The horizontal augers are powered by means of solid roller chains (bottom 1 1/4" and top 1"). Automatic chain tensioners and an automatic lubrication system for the spreading unit drive chains (option) indicate the low maintenance concept applied by Strautmann.



High-quality drive technology with integrated protection

Tough operating conditions require a robust and maintenance-free drive and also an excellent protection against foreign objects. Consequently the discs of spreading unit and the augers are protected individually via cam-type cut-out clutches. In addition speed sensors monitor augers and discs. An acoustical and visual alarm is being generated in case of a malfunction. If any of these spreading units stops, the cam-type cut-out clutch is actuated and the transport floor switches off automatically.



Two-disc wide-angle spreading unit

The discs are equipped with 4 adjustable throw-shovels each. Screwable wearing plates made of highgrade steel ensure a long service life of the unit. Due to the shape and arrangement of the throw-shovels, spreading widths of up to 24 m are achievable. Hardox linings on the spreading unit minimize wear, promise a long service life and emphasize the high quality of the machine.



Adjustment of spreading unit bonnet

The clearance between the bonnet and the discs as well as the point where the spreading material is dropping onto the discs can be adjusted and thus adapted to the respective spreading material.

The boundary spread limiter serves to homogeneously distribute the spreading materials in the best possible way up to the boundary of the field. It is available not only as a mechanic but also as a hydraulic version. Especially for use next to creeks or roads, the boundary spreading device represents a worthwhile option.

The universal spreader for contractors and large enterprises

The **Strautmann universal spreaders** have been developed to meet the demands of contractors and professional farmers. The spreaders can be used for a wide range of applications and for any dispersible materials. The machines have a reputation due to their good maintainability and their low wear. With its wide range of spreader models and the various spreading units, Strautmann offers the suitable vehicle for each individual enterprise.



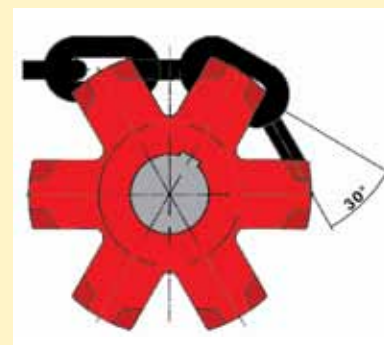
All-steel trough

The side panels of the all-steel trough are trimmed from one piece, thus giving the self-supporting structure enormous stability. The bottom plate is welded to the side panels over the entire length, thus preventing humidity and aggressive media from entering the space between bottom plate and side panel. The compost attachments which are available as optional extra, increase the height of the trough by 300 mm, which increases the loading capacity and reduces the loss of loaded material. The outward inclination of the attachments makes charging easier and at the same time protects the spreader against soiling.



Large diameter of sprockets - low wear

The sprockets extend to the base circle, thus enabling the spreading material to flow out easily. Piling-up of sticky spreading materials is avoided. Foreign objects that enter the sprockets are pressed out by means of the additional stripper. Due to the large diameter of the sprockets, the turning angle of the round steel chain is reduced by 20%. This will correspondingly apply to wear. Moreover, more chain pockets are in gear.



Transport floor

The standard VS spreader models are equipped with 4 chain strands. The high-strength round steel chains are 14 mm thick and have breaking loads of 25 tons each (left-hand ill.). Strautmann fits every third scraper floor strip with a roof profile, in order to prevent the chains from „floating up“ even in case of sticky materials and to keep the steel floor always clean. The universal spreaders can also be equipped with optional drop-forged flat-link chains (right-hand ill.).





Slurry door

For exact discharge of sewage sludge, compost or other fine crumbled spreading components, all universal spreaders can be fitted with an optional slurry door. The position of the door can be checked via a display at the front panel. If the machine is equipped with ISOBUS, this display is incorporated in the operating terminal. The sophisticated laying of the wire rope in the dirt-protected area ensures the functionality of the display.



Transport floor drive

The standard equipment of all spreader models includes the hydraulic transport floor drive. The robust feed gearing has been designed for highest strain and ensures regular feeding of the spreading unit. The speed is infinitely variable. The reverse option is a self-evident Straufmann feature.



Transport floor tension

The automatic chain tensioning device enables an easy visual check of the chain tension. Thus, the chain can be very quickly retightened if necessary, which is the precondition for a long service life of the chains. The good accessibility in upright posture ensures working comfort and safety.

Safe driving due to optimum suspension

For highest driving comfort and material protection, all VS spreader models are equipped with a drawbar suspension acting in both directions. A suspension is standard with all tandem axles.



Single axle

The universal spreader VS 1204 is equipped with a single axle. The particular advantages are the modest purchase price, the low dead weight, the low tractive power required and the good driving characteristics on the field.



Tandem boogie axle

The spreader models VS 1604 to 2004 are equipped with a boogie axle. Apart from the good driving characteristics, this unit is also well known for its excellent adaptation to the soil. This effect is intensified by means of the asymmetric axle suspension. Furthermore, these models are available with a follow-up steering axle.



Forced steering axle

The forced steering axle prevents damage to the sward during cornering and reduces tyre wear on the road. Furthermore, the manoeuvrability on narrow farmyards is considerably improved due to the fact that the vehicle is also steered during reverse travel.



Lift axle for tandem unit

When the spreader is half empty, negative tongue loads may occur. In order to prevent this effect, the spreaders can be equipped with an optional hydraulic axle lift.



Drawbar suspension

All VS spreader models are equipped with a drawbar suspension. Impacts and vibrations are well cushioned, in particular when the vehicle is charged. The driving comfort is increased many times over.



Low drawbar

All spreader models can be equipped with a low drawbar. Apart from improved driving comfort, the admissible tongue load and thus the gross vehicle weight rating are increased. On the tandem spreader models, the low drawbar can also be combined with a forced steering axle.



Ball-head hitch

A ball-head coupling is available as optional extra. This hitch which is free of clearance has proved to perform well in particular on the larger models. Service life and driving comfort are significantly improved.



Jack stand

All VS spreader models are equipped with a standard 2-speed support winch, thus economizing one double-acting control device, compared to the hydraulic version. The universal spreaders can also be equipped with an optional hydraulic jack stand which is mounted in a central position at the bottom of the vehicle. This jack stand swivels backwards when being lifted such that a large ground clearance is reached. The large supporting plate enables charging in unhitched condition.



Operating concept

Simple and brilliant

Strautmann is offering many alternatives in the operational field, starting with direct tractor connection with speed monitoring, electrical control up to the ISOBUS controlled spreader with weighing device and sectoral discharge via GPS.



Direct connection

On the standard spreader models VS 1204 - 2004, all functions are switched via the tractor control valve. The oil flow controller for the infinitely variable adjustment of the transport floor is easily accessible from the tractor. The position can be adapted to different tractor models by means of a telescopic holder arm. A provided control box serves to see the status of the speed monitor in the tractor cabin.



Easy-to-use control unit

The optional electro-hydraulic easy-to-use control unit consists of a clearly arranged control panel where the hydraulic functions are actuated by means of toggle switches. Among others, control lamps for some of these functions as well as the infinitely variable speed adjustment for the scraper floor are integrated in this terminal. This control unit makes the use of the machine very simple and safe, even for inexperienced drivers.



Transported loads counter

As a supplement to these two operating options, the spreaders can be equipped with an additional transported loads counter. This counter is active (counts) depending on the time during which the propeller shaft is switched on. Special feature: Transported loads and service hours are counted each per day (erasable) and as a total sum (non-erasable).

ISOBUS (VS 1804 & 2004)

The Field-Operator 120 is available as the first step of the possible ISOBUS control. This terminal impresses by its particularly intuitive operation due to a clear push button design (soft keys). The integrated display provides the driver with information about the status conditions of the machine. Furthermore, a spreading quantity control system ensures very precise work results despite less stress for the driver. The integrated transported loads counter is also very useful.



WTK ELEKTRONIK
 ELEKTRONIK AUTOMATISIERUNGSTECHNIK GERÄTEBAU

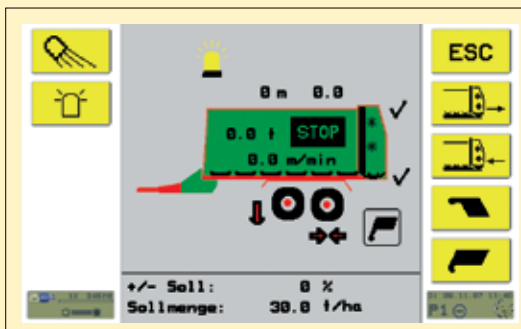
ISO 11783

The ISO control crucially contributes to reduce the stress of the operator, as functional sequences can be combined in work flows and sensors permit better control of the machine. Thus, information about the steering axle, the retaining slide and the speed of the spreading unit components is provided by means of status indicators.


JOHN DEERE
FENDT

MEMÜLLER Elektronik

ISOBUS - control and spreading quantity control



Operating concept of the latest generation

Strautmann offers an electro-hydraulic control set with integrated spreading quantity control for the universal spreader models VS 1804 - 2403. This machine control system based on ISOBUS excels in particular by the extensive monitoring options and its easy operation. This control system is of great benefit mainly in two fields.

First, a much more regular lengthwise distribution can be achieved, and second, the speed-dependent control enables the best possible use of the tractor's and trailer's capacity. The speed sensor integrated into the vehicle and a very precise retaining slide sensor detecting the retaining slide positions are the basis for the spreading quantity control. After having entered a nominal value in m^2/ha or t/ha respectively, the scraper floor speed is controlled

such that, depending on the speed, always the same volume/weight per hectare is discharged. An adequate ISOBUS terminal is included in the scope of delivery. Furthermore, the universal spreaders can be operated by means of the tractor-borne ISOBUS terminals. The collated data of the actually discharged quantities are stored on a PC memory card and can be further processed in the common graphic acreage indexes.

Manure/Universal spreader models VS 1204 - VS 2004

Type		VS 1204	VS 1604	VS 1804	VS 2004
Total height with: 4-vertical shredder unit	m	7,93	7,94	7,94	8,43
2-disc wide-angle spreader unit	m	8,14	8,15	8,15	8,64
Total width	m	2,55	2,55	2,55	2,75
Total height	m	3,27	3,18	3,18	3,57
Container dimensions inside: Length up to 4-vertical shredder unit	m	5,53	5,53	5,53	6,03
Length up to retaining slide	m	4,85	4,85	4,85	5,35
Spreader unit channel - 4-beater	m	1,46	1,46	1,46	1,46
Spreader unit channel - 2-discs	m	1,40	1,40	1,40	1,40
Slurry door channel	m	1,25	1,25	1,25	1,25
Width	m	1,93	1,93	1,93	1,93
Loading height with standard tyres (min)	m	2,47	2,38	2,38	2,77
Gross vehicle weight rating optional (low drawbar)	kg	12.000	16.000	18.000	20.000
	kg	13.000	17.000	19.000	22.000
Tare weight with: 4-vertical shredder unit	kg	5300	6100	6200	6900
2-disc wide-angle spreader unit	kg	5900	6700	6900	7600
Loading cap. up to retaining slide	m ³	13,0	13,0	13,0	14,5
Load. cap. up to 4-vertical shredder unit	m ³	15,5	15,5	15,5	17,0
Single axle		series	–	–	–
Tandem axle		–	series	series	series
Given dimensions on tires	min	600/55-22,5 (16 PR)	500/60-22,5 (12 PR)	500/60-22,5 (12 PR)	600/55-22,5 (12 PR)
Given dimensions on tires	max	800/45-26,5 (16 PR)	710/40-22,5 (12 PR)	710/45-22,5 (12 PR)	710/45-26,5 (12 PR)
Power requirement from	kW/hp	88/120	88/120	88/120	110/150

All diagrams, technical data and weights are subject to change by way of ongoing technical development of our products and are therefore not binding for delivery.

Programme
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2000/R.1011



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B. Straumann & Söhne GmbH u. Co. KG • Bielefelder Straße 53 • D-49196 Bad Laer
Tel. +49(0)54 24/8 02-0 • Fax +49(0)54 24/8 02-76
kontakt@straumann.com • www.straumann.com