



Manure/ Universal spreaders VS 10 E - VS 18



steautmann

The Strautmann universal spreaders have been developed for efficient use by contractors or on large-sized farms. These all-purpose machines, suitable for all spreading materials, are particularly interesting due to their easy maintenance and low wear. With its wide range of spreader models and the different spreading units Strautmann offers the matching vehicle for each individual farm.

The universal spreader for contractors and large-sized farms



1. Large sprockets

The cleaning holes of the sprockets reach to the base circle. This ensures a better escape of the spreading material. The forming of sticky spreading materials will be prevented. Any foreign objects penetrating the sprockets will be squeezed out by means of the additional stripping device.



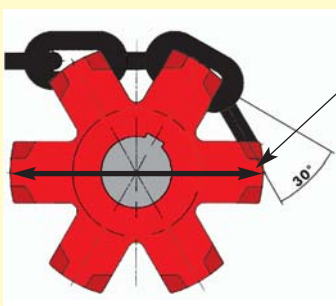
4. Transport floor

The standard equipment of the VS 10 E - VS 12 TD spreaders comprises two transport floor chains of 13 mm size. These spreaders can also be equipped with four chains on request. The standard equipment of the universal spreader models VS 12 E-L to VS 18 comprises four chains of 14 mm size.



2. Transport floor with flat link chains

As an option, the universal spreader models VS 12 E-L - VS 18 can be equipped with a drop-forged flat link chain.



3. Large diameter of the sprockets - low wear

Due to the large diameter of the sprockets, the turning angle of the round steel chain decreases by 20%. This will correspondingly apply to wear, too. Furthermore, more chain pockets will be in gear.



5. Transport floor drive

Standard equipment of all spreaders is the hydraulic transport floor drive. The robust feedgear mechanism has been designed for highest strain and ensures a regular feeding of the spreading unit.



7. All-steel tub



The side walls of the all-steel tub have been folded from one single piece and give an enormous stability to the monocoque construction. The bottom plate has been completely welded to the side walls. This prevents moisture and aggressive media from penetrating between the bottom plate and the side wall.

8. Manual operation



In case of the spreader models VS 10 E - VS 12 TD, the transport floor speed can be changed via a control valve mounted on the drawbar. All other functions are activated directly via the hydraulic system of the tractor. As an option, an electrohydraulic remote control is available.

9. Comfort operation



VS 12 E-L up to VS 18 are in Series equipped with an electro hydraulic proportional control for the transport floor. All other functions are activated via the hydraulic system of the tractor. A possible option is the integration of other functions into the electro hydraulic remote control.

6. Tensioning of moving floor



The automatic chain tensioning enables a simple sight control of chain tensioning. If needed, a re-stretching of the chain can quickly be done - this is the precondition for a long life of the chains.

10. Hydraulic jack stand



The standard equipment of the spreader models VS 12 E-L to VS 18 comprises a hydraulic jack stand mounted in a central position under the vehicle. This jack stand wheels to the back when lifted, thus reaching a high ground clearance for the vehicle. The large supporting plate allows loading, while the spreader is uncoupled.

The universal spreader models VS 10E to VS 18 represent Strautmann's implementation of a completely new universal spreader concept. These all-purpose spreaders, suitable for all spreading materials, offer solutions for farmers and contractors in professional use due to their extensive standard equipment and available optional extras.

Higher spreading precision most exact distribution



11. 2-horizontal shredder unit

The VS 10 E - VS 12 TD spreader models can be equipped with a 2-horizontal shredder unit on request. The aggressive shredder unit is equipped with wide-angle spreading tines that distribute the spreading material over a spreading width of approx. 2.5 m.



14. Solid spreading unit drive

The horizontal segmental drums are driven via solid roller chains (bottom 1 ¼" and top 1").



12. Segmental shredder unit

Having been metered, the spreading material is cut off by the screwed, revolving and changeable spreading tines, after which it falls down onto the spreading plates and is then distributed widely to the back and to the side.



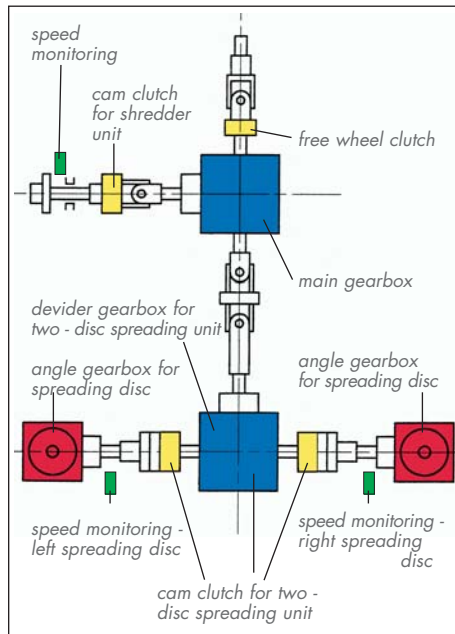
13. 4-vertical shredder unit

Four aggressive spreading drums with an overhead clearance of the spreading unit of 1.46 m ensure a fast discharge. The screwed-on, changeable spreading tines made of high-tensile steel distribute the spreading material regularly over a spreading width of up to 8 m.



15. Two-disc spreading unit

The 2 spreading discs are equipped with 4 adjustable throwshovels each. Screwed-on wearing sheets made of high-quality material ensure a long service life of the unit. Due to the shape and arrangement of the throwshovels, spreading widths of up to 24 m are reached.



Solid drive technology with integrated protection

Hardest conditions, especially during contractors' use, require a robust and maintenance-free drive and a protection against foreign objects. In case of the two-disc wide-angle spreading unit, each disc and the shredder units are protected separately via cam clutch (in case of spreader models VS 10 E - VS 12 TD optional equipment).

Speed monitoring

The speed monitoring of the spreading unit and the individual spreading plates (in case of VS 12 E-L - VS 18 standard) represents another protection to avoid damage. In case of a stop of one of these spreading units, an acoustic and visual warning signal is activated by response of the cam-operated clutch. In this case, the transport floor cuts out automatically, too.

Advantages

- Screwed spreading tines
- Large sprocket diameter with open sprocket pockets
- VS 12 E-L - VS 18 with standard hydraulic supporting leg
- All-steel tub
- Standard spring-loaded drawbar
- Optimum loading due to sloping front wall
- 13 mm chains in case of VS 10 E - VS 12 TD
- 14 mm chains in case of VS 12 E-L - VS 18
- Easy-to-maintain gearbox arrangement
- Standard side wall protection strip of 90 mm height
- Screwed scraper floor cross bars



17. Retaining and metering slide



For more precise discharge of sludge, compost or other fine crumbled spreading components, all universal spreaders with a two-disc wide-angle spreading unit are equipped with a standard retaining and metering slide.

18. Retaining slide display



The position of the retaining slide can be monitored via a display mounted on the front wall.

16. Boundary spreader limiter



On option the spreader with two-disc spreading-unit can be equipped with a boundary spreader limiter. On one hand side this is due to security reasons when you are driving beside the road. On the other hand it ensures an even distribution up to the boundary line.

19. Adjustment of dosage unit



The distance between discs and dosage unit and the point of touch-down of the material against the discs can be adjusted according to the respective spread material by means of special adjusters.

For highest driving comfort and gentle handling of material, all VS spreader models are equipped with a standard spring-loaded drawbar acting in both directions. All vehicles with tandem axle are equipped with a standard spring-loaded axle. For the spreader models with single axle the spring suspension is available as an option.

Safe driving due to optimum suspension



20. Single axle

The manure spreaders VS 10 E and VS 12 E-L are equipped with a single axle. The advantages are low acquisition costs, small own weight, low power requirements and well driving characteristics on field.



24. 4-spring axle unit

The tandem spreader models VS 10 TD to VS 12 TD are equipped with a standard 4-spring axle unit. This ensures especially good road performance on long road trips.



21. Tandem bogie axle

The spreader models VS 16 and VS 18 are equipped with a bogie axle. Apart from the good road performance, this unit is also well-known for its excellent adaptation to the soil. This effect is intensified by the asymmetric axle suspension.



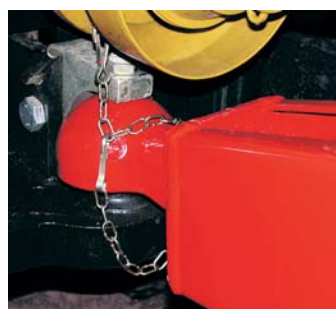
25. Lifting axle for VS 16/VS 18

When the spreader has been emptied half, negative drawbar loads may arise. In order to prevent this negative effect, the spreaders can be equipped with a hydraulic axle lift as an option.



22. Active steering

The option of active steering prevents a damage of grassland when moving in bends and minimizes the wear and tear of tyres on the road. Furthermore the mobility on small yards is increased significantly due to the fact that the steering also operates when the trailer is reversed.



26. Ball hitch

Optionally available with a low drawbar hitch. This hitch is free of clearance and especially approved for the big models. Stability and driving comfort have been improved.



23. Hitch attachment

As an option, all spreader models (without automatic reverse system) can be equipped with a hitch attachment. In case of the tandem spreader models, this can be combined with active steering.

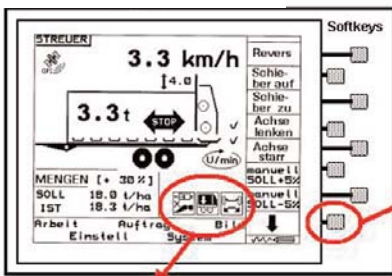


27. Spring-loaded drawbar

All VS spreader models are equipped with a standard spring-loaded drawbar. Bumps and vibrations, especially in case of a loaded vehicle, are well cushioned that way. The driving comfort is increased by far.

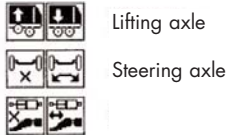
Automatic selection of output

Submenu **job:**



- ↑
- Lift axle
- Lowering axle
- Door open
- Door closed
-
-
-
-
-

Status



Operating concept of the latest generation

For the universal spreader models VS 16 and VS 18, Strautmann offers an electrohydraulic operating device with integrated spreading quantity control. The outstanding features of this machine control based on the Landwirtschaftliches Bus System (LBS) (Note of transl.: Agricultural Electronics Standardization System) are the extensive monitoring possibilities and

the user convenience. This operating device mainly offers two advantages. First, it helps to achieve a much more regular longitudinal distribution, and then, the speed-dependent control allows the optimum utilization of tractor and trailer. The bases for the spreading quantity control are the speed sensor integrated into the vehicle and a high-precision retaining slide sensor sensing the retaining slide

position. A desired value in m^3/ha having been entered, the scraper floor speed is adjusted so that, depending on the speed, always the same volume is spread out per hectare. The extent of delivery includes a fully adequate LBS-ISO terminal. After implementation of the ISO standard by the tractor manufacturers, it will be possible to operate the universal spreaders by means of the tractor-bound ISO terminals.

Interbody changing system Multi-Cargo



As a further option the Giga-Trailer 1840/1840 DO is available as an interbody changing system in combination with the body of the VS 18 for a maximum of efficiency, profitability and a better cost-performance ratio.



Manure/Universal spreader models VS 10E - VS 18

Model		VS 10 E	VS 10 TD	VS 12 TD	VS 12 E-L	VS 16	VS 18
Total height with:							
2-horizontal shredder unit	m	7.10	7.10	7.10	-	-	-
4-vertical shredder unit	m	7.40	7.40	7.40	7.93	7.94	8.43
2-disc wide-angle spread. unit	m	7.61	7.61	7.61	8.14	8.15	8.64
Total width	m	2.41	2.41	2.41	2.50	2.50	2.65
Gesamthöhe bei:							
2-horizontal shredder unit	m	2.86	2.77	2.80	-	-	-
4-vertical shredder unit	m	3.10	2.92	2.95	3.27	3.17	3.28
2-disc wide-angle spread. unit	m	3.09	3.00	3.03	3.18	3.17	3.28
Knt. box dimensions: Length up to -							
- 2-horizontal shredder unit	m	4.90	4.90	4.90	-	-	-
- 4-vertical shredder unit	m	5.00	5.00	5.00	5.53	5.53	6.03
- retaining slide	m	4.32	4.32	4.32	4.85	4.86	5.35
Width	m	1.93	1.93	1.93	1.93	1.93	1.93
Loading h. with standard tyres	m	2.45	2.38	2.41	2.50	2.50	2.65
Gross vehicle weight rating	kg	10.000	10.000	12.000	12.000	16.000	18.000
optional	kg	-	-	-	-	18.000	20.000
Tare weight with:							
2-horizontal shredder unit	kg	4150	4300	4400	-	-	-
4-vertical shredder unit	kg	4650	4800	4900	5200	6000	6300
2-disc wide-angle spread. unit	kg	5350	5500	5700	5900	6700	7000
Load. cap. up to retaining slide	m ³	11.5	11.5	11.5	13.0	13.0	14.5
- 2-horizontal shredder unit	m ³	12.0	13.0	13.0	-	-	-
- 4-vertical shredder unit	m ³	12.5	14.0	14.0	15.5	15.5	17.0
Single axle		Serie	-	-	Serie	-	-
Tandem axle		-	Serie	Serie	-	Serie	Serie
Given dimensions on tires	min	500/60-22.5 (16 PR)	15/70-18 (10 PR)	500/55-20 (12 PR)	600/55-22.5 (16 PR)	500/60-22.5 (12 PR)	600/55-22.5 (12 PR)
Given dimensions on tires	max	750/50-265 (12 PR)	550/45-22.5 (12 PR)	710/44-22.5 (12 PR)	800/45-26.5 (16 PR)	710/40-22.5 (12 PR)	710/45-26.5 (12 PR)
Power requirement from	KW/HP	66/90	66/90	74/100	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.

Program
strautmann



3000/ivd/0307



strautmann