



**straumann**



*Verti-Mix self-propelled wagon*

**Verti-Mix SF**  
**Verti-Mix Double SF**





**Quick loading**  
by means of high-performance milling cutter

**Clean picking-up to the exact kilogramme**  
via reversible elevator conveyor

**ICS-control**  
→ intelligent steering of entire vehicle

**Remote maintenance modem**  
→ Quick technical support if necessary

## The self-propelled wagon: Powerful, robust, comfortable

### Self-propelled fodder mixing wagons

make the labour-intensive procedure of dairy cattle feeding considerably easier and save time, money and work.

Homogeneously mixed ingredients prevent the cows from selecting the forage

→ Higher milk yields with improved ingredients

All animals are optimally fed from the physiological point of view and are less prone to diseases.

The result is healthy cows and a high degree of profitability.

### The self-propelled Strautmann wagon

- Efficient
- Comfortable
- Safe in use
- Powerful

Filling, mixing and discharging – carried out with one single vehicle.

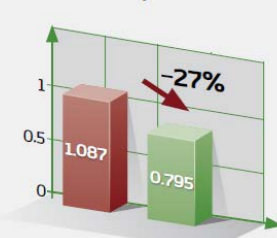


A separate loading vehicle is no longer required. This means less fuel consumption, more comfortable working conditions and leads to greater efficiency loading, mixing and unloading.

The integrated remote maintenance modem makes the self-propelled Strautmann wagon an intelligent all-in-one solution.

### Self-propelled fodder mixing wagons

Fuel consumption l/t\*



Feeding efficiency kg/min\*



\* Relating to the entire process: loading, mixing, transport and discharge.  
Source: Own tests in co-operation with University of Applied Sciences, Nürtingen, Germany.

**Individual steering options**  
depending on operating requirements

### Contents

<b>The milling system</b>	4-5
<b>Vario<sup>2</sup> mixing auger</b>	6
<b>Equipment</b>	7
<b>Efficiency &amp; comfort</b>	8-9
<b>Technical data</b>	10-11

# Milling system for optimum picking-up performance



## Elevator

- Mounted at the centre behind the milling cutter for quick, gentle material flow
- Smooth running, low-maintenance elevator conveyor made of rubber
- Hydraulically powered
- Infinitely variable speed adjustment
- Reversible for exact picking-up of components

## Fodder picking-up & transport

- Clean picking-up right to the bottom
- Fast running elevator conveyor for clean feed flow
- Optimum parabolic trajectory from the elevator into the mixing container
- Automatic cutter arm lowering for quick and effortless working
- Less wastage/spoilage



## High-performance milling cutter

- 2 m in width
- 114 knives efficiently take the fodder out of the silo
- 60 cranked and 54 straight knives (option)
- Helical arrangement of knives for maximum picking-up performance with clean cut surface



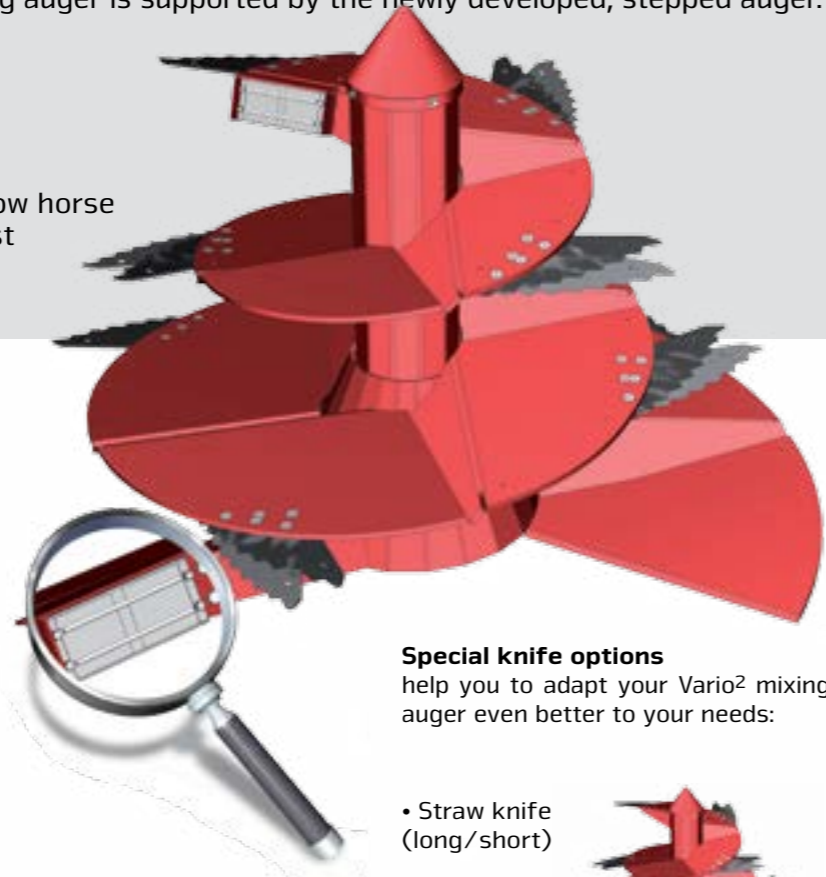
# Top mixing performance and optimum discharge

## Straumann Verti-Mix fodder mixing wagons

contribute substantially to increase the productivity of modern dairy farms. The perfect geometry of the mixing tub and Vario<sup>2</sup> mixing auger is supported by the newly developed, stepped auger. This ensures:

- Low power requirement
- Optimum fodder structure
- Homogeneous mixing
- Energy-saving short mixing times

Excellent mixing quality and proven low horse power mixing guarantee absolute cost effectiveness for any kind of application.



## The Vario<sup>2</sup> mixing auger – Variability and strength for any purpose

Due to the patented knife adjustment system, the Vario<sup>2</sup> mixing auger can be perfectly adapted to your needs. The robust and low-maintenance angular gearbox ensures long service life even under challenging conditions.

## Highly effective magnetic separation of metallic foreign objects

Silage and any kind of purchased fodder may contain metallic foreign objects which may harm your dairy cattle.

The Straumann magnetic system (optional extra) directly mounted on the mixing auger offers optimum health protection for your high-yield cows.

The system is mounted so that it is in direct and close contact with the mixed fodder, thus working very effectively.

Optional „INNODUR“ wearing elements significantly extend the service life of the Vario<sup>2</sup> mixing auger.



Caption: Metallic trash collected after 14 days of using optional magnets (reference wedding ring in bottom right of photo)

**Special knife options** help you to adapt your Vario<sup>2</sup> mixing auger even better to your needs:

• Straw knife (long/short)



• Bale cutting knife



• Root crop knife



→ Assumption: Residual thickness before replacement of the mixing auger 5 mm, i.e. on 15mm of wear on 20mm flight compared to 10mm of wear on a standard 15mm auger.



## Discharge options

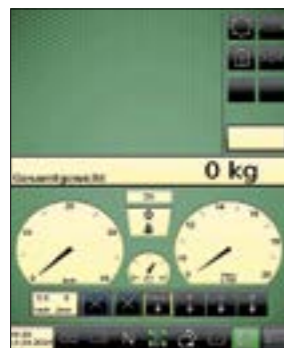
- Front discharge via discharge conveyor → Good overall view
- Rear discharge via discharge door → Simultaneous discharge on both sides possible
- Rear discharge via discharge conveyor → Ideal for feed alleys

- Crossover conveyor displacement and conveyor extensions are optional extras → For distribution into dosing feeders and high troughs
- Combination with rear straw blower and / or fast bedding roller at the end of the cross conveyor possible → Enables feeding and bedding with one machine

# Top equipment Top performance



Milling mode



Travelling mode



Distribution mode

### Our customer service for you

- Integrated remote maintenance modem
- Easy connection with Straumann customer service for error readout
- Quick and target-oriented support

## Equipment Verti-Mix Double SF

### Mixer drive

- Hydrostatic with 2 speed levels
- Each level proportionally adjustable

### Weighing device

- Standard programmable weighing device

### Loading conveyor

- Manual & automatic

### Traction drive

- Hydrostatic with infinitely variable speed adjustment
- Automotive travelling mode:
  - 0-25 or 0-40 km/h
- Milling mode: 0-7 km/h
- Distribution mode: 0-15 km/h

### Operation

- Space-saving & clearly organised
- 3 displays in 1
- Free assignment of the individual functions
- 10.4" touch-screen, extremely scratch-proof and reliable
- Optimum control by means of cross communication between camera, CAN bus and weighing device



# Efficiency & comfort

## Operator's cab

Safety glazing on 3 sides with curved front screen for optimum view

Adjustable steering column

Double windscreen wiper

Heated outside mirrors

Air-suspended driver seat



## 6-cylinder engine

- Emissions Level III b
- Powerful and economical
- Turbo-diesel engine with water cooling
- 129 kW/175 HP at 1,900 rpm
- 714 Nm at 1,500 rpm





### Lighting

- Lighting for travelling on public roads according to StVZO (note of transl.: German Road Traffic Licensing Code)
- 2 work lights on top of the cabin
- 2 reversing lights
- 2 work lights (on the right-hand and left-hand side of the cross conveyor)

### Chassis

- Welded frame made of quality steel with front axle oscillating support for maximum stability
- Maximum driving comfort due to parabolic suspension of the entire vehicle
- Oil-hydraulic drum brake, 4-wheel braking for maximum safety
- Optional 4-wheel steering
- Optional air suspension (on the Double models)
- 25/km/h standard
- 40 km/h optional
- Optional all-wheel drive

### Mineral feed funnel

- Easy to add of small quantities of fodder and fodder additives (optional extra)
- Mounted on the container or the elevator

### Counter-knives

- Manually operated (also available with hydraulic operation – from the driver seat – as an optional extra)
- Enable the chopping of entire bales and optimise the mixing quality

### Weighing device

- Standard programmable weighing device
- Data transfer option (via USB stick) for feed control and optional AV 70 additional display



### Fodder mixing wagon Verti-Mix 1102 SF – 2002 Double SF

Type	Verti-Mix 1102 SF		Verti-Mix 1302 SF		Verti-Mix 1502 SF		Verti-Mix 1402 Double SF		Verti-Mix 1702 Double SF		Verti-Mix 2002 Double SF	
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Dimensions												
Total length, transport position												
- with front discharge conveyor	m	7,28	7,38	7,55	9,20	9,26	9,57					
- with rear discharge conveyor	m	7,59	7,59	7,77	9,55	9,55	9,83					
Total vehicle width												
	m	2,42	2,42	2,58	2,30	2,30	2,30					
Total vehicle height (with mechanical suspension)												
- with single tyres 435/50 R19,5	m	2,84	3,17	3,17	2,80	2,94	-					
- with double tyres 235/75 R 17,5 <sup>(5)</sup>	m	2,76	3,08	3,08	2,74	2,87	2,97					
- with double tyres 275/70 R 22,5	m	-	-	-	2,86	3,00	3,08					
- with single tyres 455/45 R 22,5		-	-	-	2,86	3,00	3,09					
Total vehicle height (with air suspension <sup>(4)</sup> )												
- with single tyres 435/50 R19,5	m	2,83	3,17	3,17	2,82	2,96	-					
- with double tyres 235/75 R 17,5 <sup>(5)</sup>	m	2,76	3,09	3,09	2,74	2,87	2,99					
- with double tyres 275/70 R 22,5	m	-	-	-	2,86	3,00	3,07					
- with single tyres 455/45 R 22,5		-	-	-	2,86	3,01	3,09					
Wheelbase	m	3,22 (3,27) <sup>(3)</sup>	3,22 (3,27) <sup>(3)</sup>	3,22 (3,27) <sup>(3)</sup>	3,79	3,79	3,97					
Front outside wheel width												
Tyres 305/70 R 19,5	m	2,12	2,12	2,12	2,12	2,12	2,12					
Rear outside wheel width with front-wheel steering												
435/50 R19,5	m	2,25	2,25	2,25	2,10	2,10	-					
Double tyres												
235/75 R 17,5 <sup>(5)</sup>	m	2,35	2,35	2,35	2,30	2,30	2,30					
Rear outside wheel width with 4-wheel steering												
Single tyres												
435/50 R19,5 (< 25 km/h)	m	2,25	2,25	2,25	2,25	2,25	-					
Double tyres												
235/75 R 17,5 (< 40 km/h)	m	2,37	2,37	2,37	2,37	2,37	2,37					
Turning radius with front-wheel steering												
- outside front (V)	m	7,63	7,63	7,63	8,50	8,50	8,74					
- outside rear (H)	m	5,37	5,37	5,59	6,39	6,39	6,70					
- inside (I)	m	2,68	2,68	2,60	3,50	3,50	3,62					
Turning radius with 4-wheel steering												
- outside front (V)	m	6,23	6,23	6,23	6,66	6,66	7,02					
- outside rear (H)	m	4,86	4,86	5,08	6,00	6,00	6,27					
- inside (I)	m	1,60	1,60	1,50	2,23	2,23	2,29					
Usable mixing capacity <sup>(1)</sup>												
	m <sup>3</sup>	11,0	13,0	15,00	14,0	17,0	20,0					
Picking-up width	m	2,00	2,00	2,00	2,00	2,00	2,00					
Picking-up height	m	5,00	5,10	5,10	5,00	5,10	5,10					
Conveyor drum diameter	m	0,60	0,60	0,60	0,60	0,60	0,60					
Elevator width	m	0,58	0,58	0,58	0,58	0,58	0,58					
Dead weight approx. <sup>(2)</sup>	kg	10600	10700	10860	12760	13050	13380					

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

<sup>(1)</sup> actual usable mixing capacity, augers having been deducted from the capacity  
<sup>(2)</sup> depending on the equipment  
<sup>(3)</sup> (3.27m) with 4-wheel steering and tyres 435/50 R 19.5, rear  
<sup>(4)</sup> with air-suspension, the machines can be lowered by approx. 5 cm for a short time  
<sup>(5)</sup> max. Speed 38 Km/h



# strautmann



Strautmann main production facility in Bad Laer

[www.strautmann.com](http://www.strautmann.com)

B. Strautmann & Sohne GmbH u. Co. KG is a medium-sized family-owned business located in the administrative district of Osnabruck. Strautmann has been in business for over 80 years, and is now being managed by the third generation. In a modern plant at the second production site in Lwowek (Poland), Strautmann manufactures individual machine components, as well as other machinery from the

Strautmann range, such as tipping trailers, buckets and shear grabs. As a machine manufacturer offering a wide range of machinery for cattle feeding, green fodder harvesting, universal spreaders and transport technology as well as in the field of charging and dosing technology for biogas plants, Strautmann is the ideal partner for all customers in this industry.



Pol-Strautmann



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