



Self-propelled fodder mixing wagons

Primus 600

Primus 900



Powerful and comfortable

Primus 600 und 900

Clean picking-up to the kilogram
by means of automatic,
load- sensitive lowering of cutter arm

Smart Feed Cab
with Feed Control
System

IMS auger
Low power requirement,
optimised feed structure
and homogeneous mixing.

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 fodder.

- + Higher milk yields with improved ingredients.
- + All animals are optimally fed from the physiological point of view and are less prone to diseases.
- + The results are healthy cows and a high degree of cost effectiveness.

Primus

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

Due to the fact that the charging vehicle is no longer required and as a result of the efficient interaction of all components, work is carried out comfortably and in a diesel-saving manner. The integrated remote maintenance modem makes the Strautmann self propelled model an intelligent and reliable overall solution.

- 17 - 30 m³ of usable mixing capacity
- High-performance milling cutter
- 2 IMS mixing augers
- A variety of discharge options
- Various chassis options



Fast picking up of fodder with maximum protection to the components
by means of high performance milling cutter

Four-wheel steering
as standard on the Primus 600
and Primus 900

Customised discharge options
Most varied discharge options
ensure individual adaptation to
different circumstances.

Efficient and robust

The pick-up milling cutter



High performance milling cutter

The high performance milling cutter is available in two cutting widths: 2.0 m for the Primus 600 and 2.40 m for the Primus 900. The spiral arrangement of the blades ensures maximum cutting performance and a clean cut surface. Blades can be changed in under a minute.

Primus 600

- 2.0 m milling width
- Up to 114 blades
- 60 offset blades as standard
- 54 straight blades are available as an option

Primus 900

- 2.40 m milling width
- up to 138 cutters
- 66 straight, 72 offset

Fodder picking-up

The milling arm enables clean picking-up right to the ground. The load-dependent, automatic lowering of the milling arm ensures that the feed is removed in a way that is extremely gentle on the crop structure, whilst at the same time maximising removal capacity. The adjustable support rollers, made from solid material, are located to the right and left of the cutting head and ensure a stable and secure footing. A conical hopper behind the cutter ensures optimum material flow to the centrally positioned elevator. The material leaves the cutting head directly, thereby preserving its structure. This design increases removal capacity and requires significantly less effort than other designs on the market.

2,0 m or 2,40 m



Fast and reliable Elevator and Fodder transport



Elevator

The elevator is positioned centrally behind the milling head and enables a fast, gentle flow of material. The smooth-running, low-maintenance elevator belt is made of rubber. A robust lug profile ensures a clean flow of feed. A wear-resistant plastic seal prevents contact between the rubber conveyor belt and the side wall. The elevator's optimal throw trajectory transports the feed precisely into the mixing tank. The elevator is hydraulically driven and its speed can be adjusted continuously. The elevator belt can be reversed to ensure precise intake of the components.



Mineral fodder feeding flap

A mineral feed filling flap is available as an option on the elevator arm. It allows small quantities of feed and feed additives to be added conveniently. The elevator belt can be controlled from the cab. The additional components are distributed directly throughout the entire mixing tank, ensuring rapid and uniform mixing.



The allround talent

IMS (Intensive Mix System) mixing auger

The IMS mixing auger –

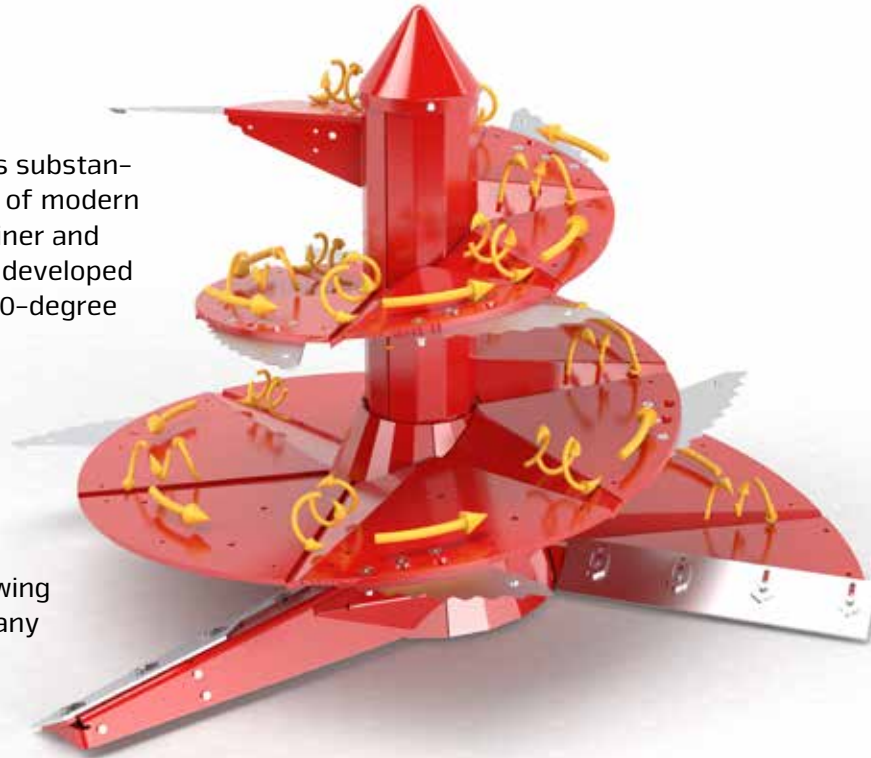
Variability and strength for any purpose

Due to the patented knife adjustment, the IMS mixing auger can be perfectly adapted to your specific conditions of use. The robust and low-maintenance angular gear ensures long service life even under challenging conditions.

Strautmann Verti-Mix fodder mixing wagons substantially contribute to increase the productivity of modern dairy farms. The perfect geometry of container and IMS mixing auger is supported by the newly developed mixing auger in stepped flight design with 60-degree elements. This ensures:

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

Excellent mixing quality and proven easy towing guarantee absolute cost-effectiveness for any kind of application.



Adjustable front auger end/scrapper

Due to adjustable scraper bars at the front auger end and at the scraper, even finest components are reliably picked up from the ground and homogeneously mixed.



Robust gearbox

The core of the IMS mixing auger is the very robust and durable gearbox. Stability and long maintenance intervals are achieved by means of a large-sized pair of tapered rollers, double sealing and a large grease chamber.



Effective mixing

The perfect harmonisation of mixing auger geometry and the distance to the container wall forms the basis for quick and homogeneous mixing.

Extend service life – Save money!

Optional „INNODUR“ wearing elements



Innodur Basic:

The stainless steel elements, which are 5 mm thick and 100 mm wide, are screwed to the auger windings with an overlap. They can also be mounted quickly and easily at a later date. There is no need for labour-intensive welding required.



Innodur Pro:

Full-surface stainless steel elements covering the entire length of the screw, 5 mm thick. They can also be mounted quickly and easily at a later date. There is no need for labour-intensive welding required.

For high demands – Heavy-duty design

When the mixing auger is replaced with a residual thickness of 5 mm:

Standard mixing auger 15 mm

- Wear material 10 mm

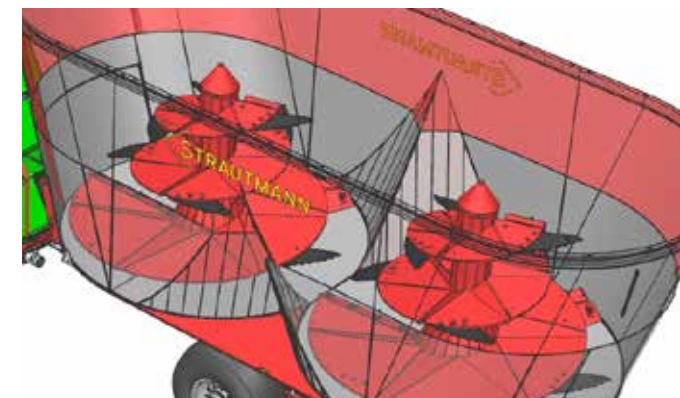
Heavy-duty mixing auger 20 mm

- Wear material 15 mm

→ 50 % longer service life = 50 % less wear costs

Stainless steel lining

Fodder rations with a high maize percentage (>75 % of the dry substance content of the total ration), in particular have an increased percentage of aggressive lactic acid. The acid attacks the container material and promotes the formation of rust films. A stainless steel lining for the container effectively prevents this.



- Stainless steel elements
- 1.5 mm thick and 90 cm high side panel elements
- 3 mm thick bottom plate
- Also subsequently available with 3 mm thick side panel elements

Individually equipped for your needs

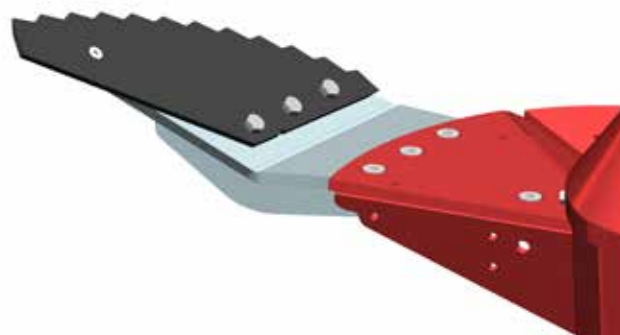
Special equipment options help you to adapt your IMS mixing auger even better to your individual needs:



- Short knives as standard

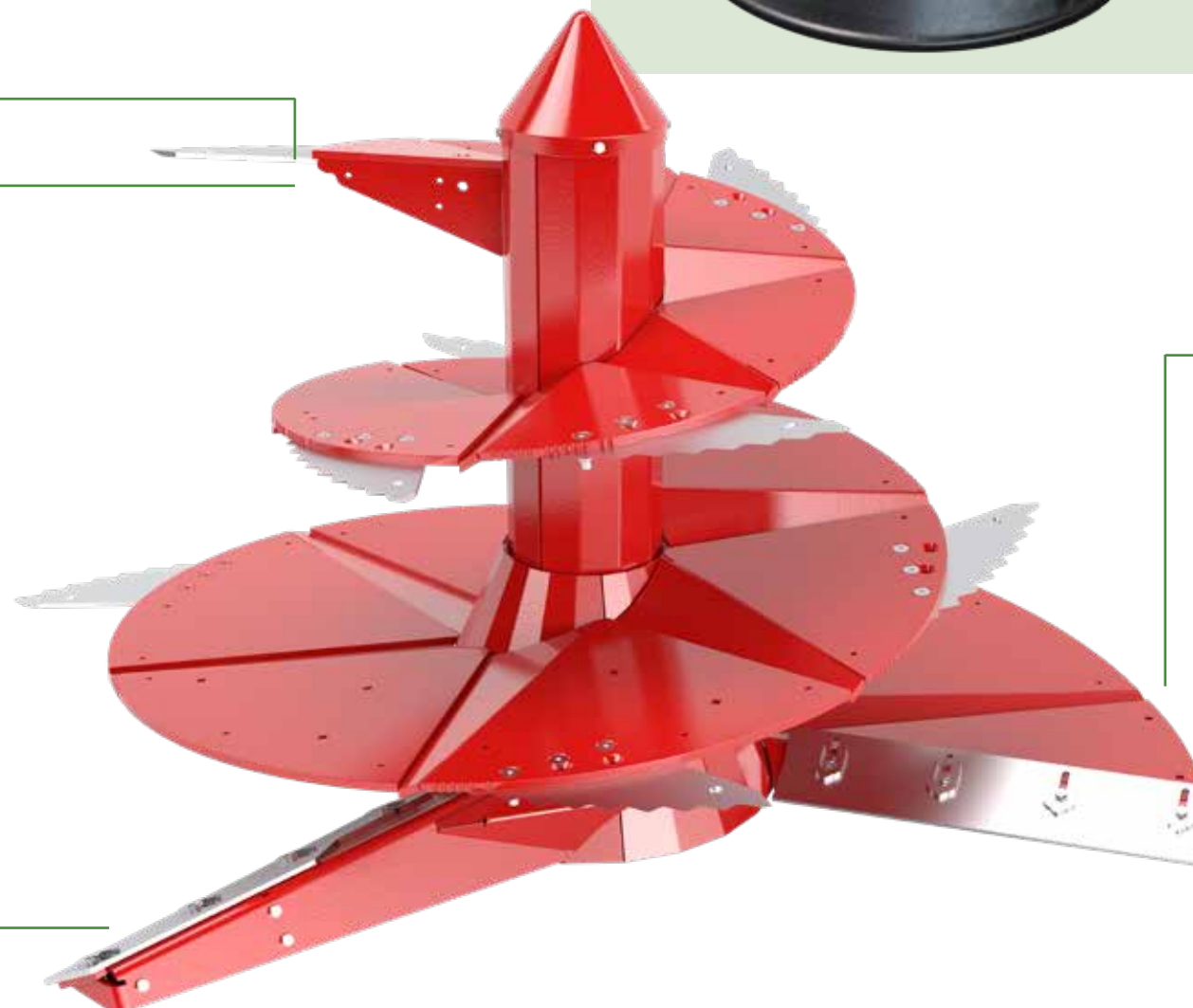
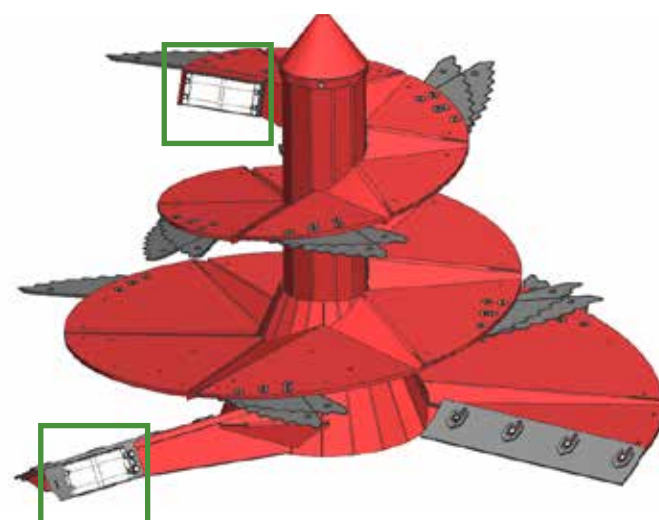


- Long knives as optional equipment, ideal for undoing straw and baled silage



Bale knife

The bale knife is perfectly suitable for undoing round bales.



Magnets

Each silage and any kind of purchased fodder might contain metallic foreign objects which might harm your dairy cattle.

The Strautmann magnets (optional) mounted directly at the mixing auger protects your valuable livestock against internal injuries, thus ensuring herd health.

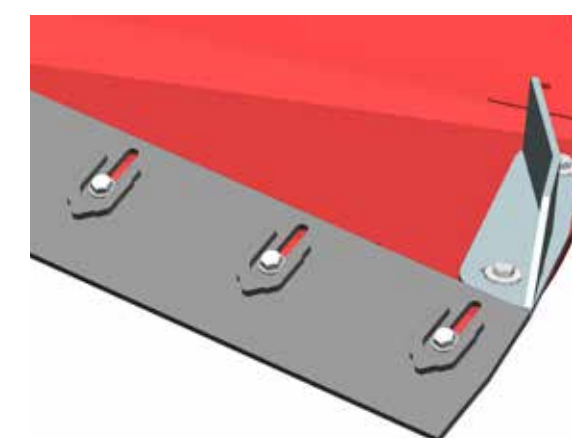
Technical modifications reserved



More safety for your animals!

Protective cover between mixing auger and coaxial gearbox

- Made of robust plastic
- Recommended for compact mixtures (compact TMR) or for addition of larger quantities of water
- Reliable protection against fodder deposits between mixing auger and gearbox



Scraper

"Scrapers" especially developed for very poorly structured feed rations (compact TMR) ensure an additional mixing effect and an improved fodder movement.

The magnets are mounted such that they have direct and immediate contact with the mixed fodder and thus very effectively filter out metallic foreign objects without them being carried away again from the magnet by the following fodder.

Technical modifications reserved



Result after 14 days of using our magnets (wedding ring as reference in the bottom right of the photo)

The specialist for every farm

The different discharge options

The Strautmann cross conveyor

The cross conveyor drive is equipped with a standard floating oil motor, such that the conveyor is particularly smoothly running and there is no risk of bearing distortions.

The proven lattice bar roller ensures high tractions of the driving roller and slip-free power transmission. It prevents material from building up on the roller and increases the service life of the conveyor thanks to the gentle return of the conveyor.



Front cross conveyor

The front cross conveyor is situated entirely within the machine's dimensions, thereby offering optimum collision protection. It enables the deposition of a loose and uniform swath of forage and is fitted as standard with infinitely variable speed control.



Cross conveyor with displacement to the side

The cross conveyor with lateral displacement makes it easier to load troughs. The feed can be deposited further away from the machine, which also improves visibility from the cab.



Rear cross conveyor

The rear cross conveyor is ideal for feed passages and can also be used in combination with a front cross conveyor belt.



Front cross conveyor with conveyor extension

The Front cross conveyor with conveyor extension features a hydraulically folding discharge belt, which is raised into the transport position. The infinitely variable adjustment allows for the feeding of dosing units and higher-level troughs.



Rear left-hand/right-hand discharge gate

The rear left and right discharge doors allow feed to be deposited behind the edges. Simultaneous discharge on both sides is possible. This design is particularly suitable for narrow feeding tables.



Discharge at the rear centre with protective device

The rear central discharge with protective device allows feed to be deposited centrally on the feed table. It is ideal for dispensing feed mixtures in silo systems and for the rapid unloading of premixes.



Side discharge

Side discharge can be carried out either via discharge chutes or via a PVC discharge belt. The discharge belt is suitable for feeding dosing units and troughs situated at a higher level.

Comfortable and spacious Smart Feed Cab



Cabin

The spacious interior of the Smart Feed Cab ensures ample legroom and enables quiet operation. The entry door extends across almost the entire length of the cabin, allowing for easy and comfortable entry and exit.

Optimum view

The cabin features three-sided safety glass with a heated windscreen, ensuring optimum visibility. Lightly tinted roof and side windows provide additional protection from sunlight. Optimum visibility is maintained even at high loading heights. A dual windscreen wiper system and heated, electrically adjustable wing mirrors also contribute to optimum visibility.

Working in the comfort zone Made for you



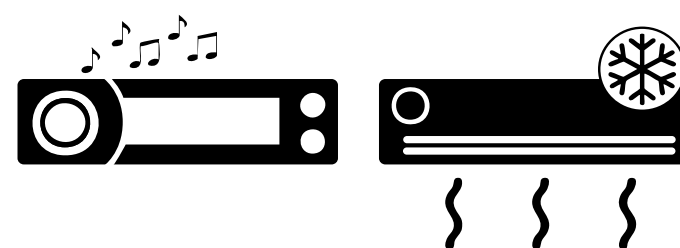
Driver seat

The driver's seat has air suspension and offers ample legroom. Various adjustment options for the seat and armrest allow the driver's station to be tailored to individual needs.



Armrest

The oscillating armrest ensures maximum comfort and provides space for all controls. Using the **multi-function joystick and keypad**, the functions can be individually adjusted and saved for each user, depending on the respective operating mode – driving, forage intake or forage discharge.



Radio & Air Conditioning

The cabin is fitted as standard with air conditioning and a DAB+ radio with a hands-free kit.

Safety and comfort with Strautmann Feed Control



Feed Control

The space-saving and clearly laid-out Feed Control operator terminal in the cab combines three displays in a single system. The individual functions can be freely assigned. The 12-inch touchscreen is highly scratch-resistant and reliable.

Mixer drive

The mixer drive is hydrostatic and has two speed settings, each of which can be controlled proportionally.

Weighing system

The programmable weighing system is included as standard. Data is transmitted via the Strautmann Data System (SDS) (see page 15).

Drive system

The drive system is hydrostatic and allows for infinitely variable speed adjustment. In automatic drive mode, the standard speed is 40 km/h; in milling and spreading mode, it is 20 km/h.



Travelling mode

- Weighing device
- Camera (rear-view and container camera)
- Speed
- Engine speed



Picking-up mode

- Weighing device
- Camera (rear-view and container camera)
- Milling pressure
- Pick-up arm lowering, manual & automatic
- Elevator conveyor, sense of rotation
- Mixing auger speed



Discharge mode

- Weighing device
- Camera (rear-view and container camera)
- Gate display
- Crossover conveyor display
- Crossover conveyor sense of rotation
- Crossover conveyor speed
- Mixer speed

Practical and safe The equipment



Lighting

- Lighting for road traffic in accordance with the StVZO
- LED headlights
- LED work lights
- Various lighting packages available



Counter-cutter

- Manually operated (hydraulic operation also available as an option – from the driver's seat)
- Improve the shredding of whole bales and speed up the mixing process
- The hydraulic counter-blades can be swung in and out automatically, depending on the component, thanks to the automatic function



Mineral fodder feeding flap

- For the convenient addition of small quantities of feed and feed supplements
- Fitted as standard with a push-button switch to start the auger transfer, which feeds the additional components into the mixer even when it is full

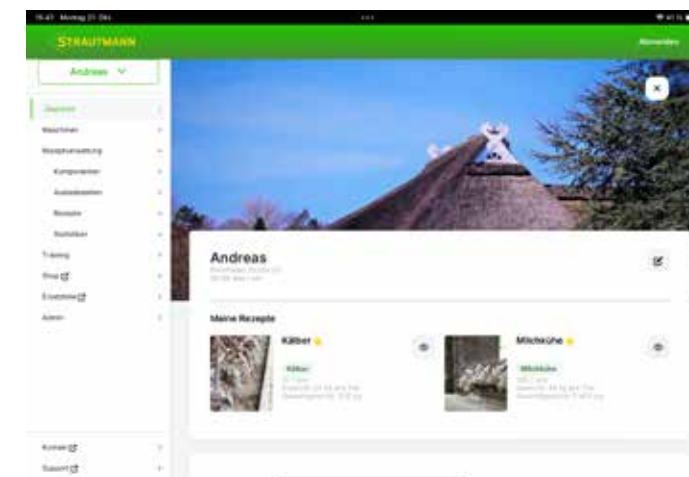
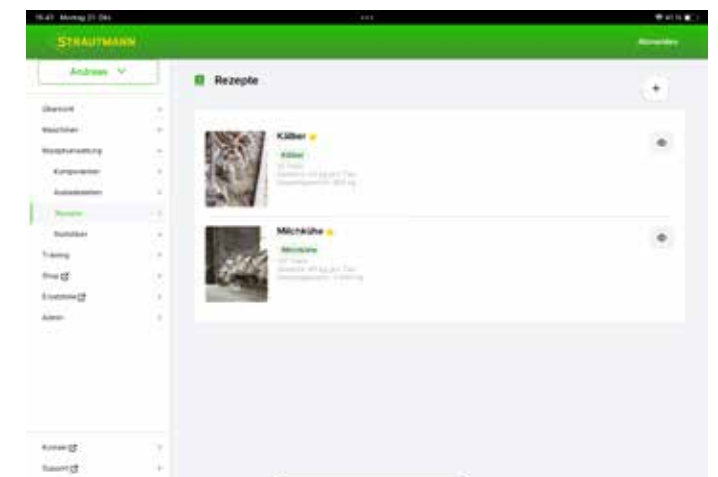


Keeping an eye on feeding at all times Strautmann Data System (SDS)

The Strautmann Data System (SDS) is a new platform for all data streams generated on, with or by the machines. An elementary SDS module for the self-propelled fodder mixing wagons is the feeding software. SDS enables programming recipes and defining discharge points. The clearly organised component and recipe management can be maintained on the PC or mobile end devices. One or more users or operators can access the created recipes and perform the feeding process according to specifications. Access to the information is possible for several users who can carry out mixing and feeding according to exact specifications. The Primus records all important machine and weight data and synchronises them back to the system. Thus, feeding can be easily analysed, assessed and then adjusted accordingly. A valuable tool for optimising the feeding process and promoting performance and animal health with simultaneous minimum consumption of resources.



A special highlight for contractor-based feeding and businesses with several locations is the premium variant: This option enables the creation, management and separate analysis of several businesses and more recipes. It comprises the comparison of target and actual figures as well as the working time recording for each employee and each business for a clean documentation and invoicing. In future, SDS is to be further expanded in terms of its capabilities to support e.g. service and maintenance intervals or to generate more transparency for the customer in terms of warehouse management.



For road and farm

The Primus 600 chassis

Chassis

The chassis consists of a welded frame made from high-quality steel with a front axle swing arm offering maximum stability. The parabolic suspension throughout the vehicle ensures a high level of ride comfort. For maximum safety, the vehicle is fitted with an oil-hydraulic drum brake system on all four wheels.



Drive system

The drive system comes as standard with an auto-motive driving mode and a function that reduces engine speed once maximum speed is reached, thereby reducing fuel consumption. All-wheel drive is available as an option for challenging terrain and improved climbing ability, even when laden.

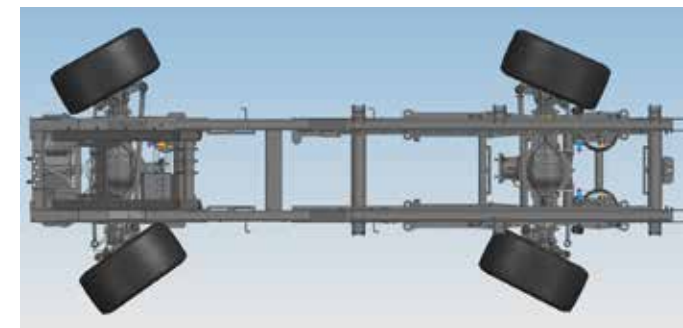
Leaf suspension

- Mechanical leaf suspension as standard
- Low-maintenance and robust



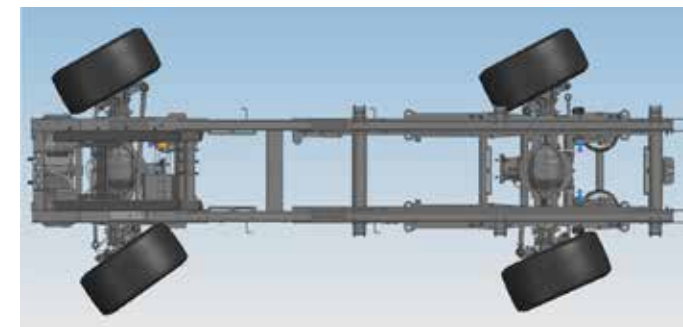
Air suspension

- Optional for more comfort
- Chassis can be lowered
- Increased driving comfort, especially in inter-farm use or difficult farmyard conditions



4-wheel steering

- Compact and manoeuvrable machine even for narrow stable conditions
- A comfortable solution on the farm to minimise the turning radius
- In combination with the tail swing suppression good overview even in narrow lanes and stables



Crab steering

- Comfort function for safely approaching the silo wall
- Full concentration on fodder picking-up at the silo stack possible

For road and farm

The Primus 900 chassis

Chassis

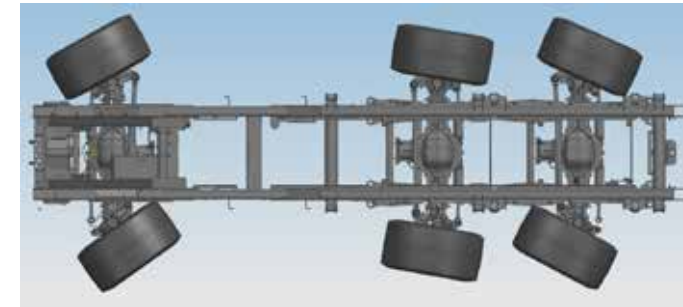
The chassis consists of a welded frame made from high-quality steel with a front axle swing arm offering maximum stability. The parabolic suspension throughout the vehicle ensures a high level of ride comfort. For maximum safety, the vehicle is fitted with an oil-hydraulic drum brake system on all six wheels.

Drive system

The drive system comes as standard with an auto-motive driving mode and a function that reduces engine speed once the maximum speed is reached, thereby reducing fuel consumption.

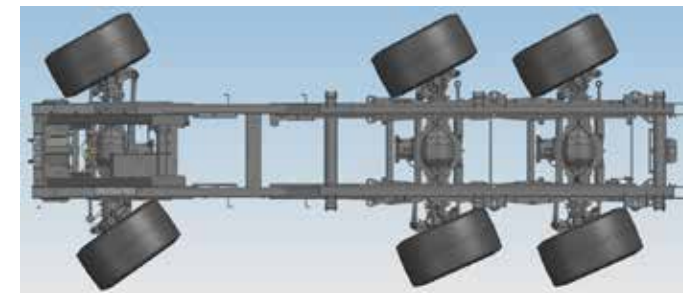


The Primus 900's standard hydraulically suspended chassis ensures a high level of ride comfort and optimum adaptation to varying ground conditions. Uneven surfaces on the farmyard, roads and off-road terrain are effectively absorbed. This protects both the driver and the machine. The robust chassis design also ensures high stability and load-bearing capacity, even when the mixing tank is fully loaded. Depending on the model, hydraulic suspension and height adjustment allow the chassis to be adapted to the specific working conditions. In combination with a hydrostatic drive, the feed mixer can be manoeuvred precisely and continuously. Depending on the model and type approval, modern versions can reach travel speeds of up to 40 km/h.



6-wheel steering

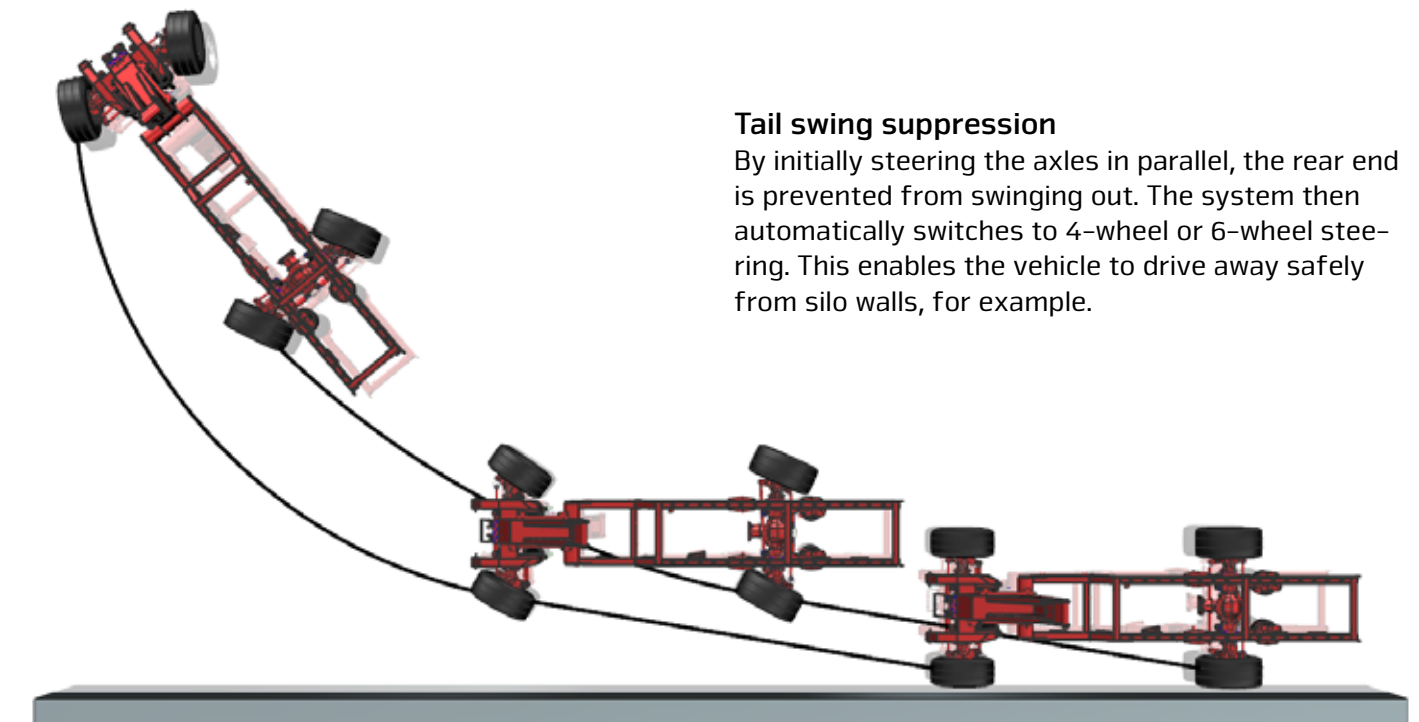
- Compact and manoeuvrable machine even for narrow stable conditions
- A comfortable solution on the farm to minimise the turning radius
- In combination with the tail swing suppression good overview even in narrow lanes and stables



Crab steering

- Comfort function for safely approaching the silo wall
- Full concentration on fodder picking-up at the silo stack possible

More safety due to tail swing suppression



Tail swing suppression

By initially steering the axles in parallel, the rear end is prevented from swinging out. The system then automatically switches to 4-wheel or 6-wheel steering. This enables the vehicle to drive away safely from silo walls, for example.

Technical data
Primus 600

	Primus 617	Primus 620
Dimensions [m]		
Width with crossover conveyor	2.36	2.36
Front outside wheel width	2.34	2.34
Width with two discharge doors	2.46	2.46
Length with front crossover conveyor	9.67	9.74
Length with rear crossover conveyor	9.78	9.78
Elevator width	0.58	0.58
Milling cutter diameter	0.61	0.61
Picking-up width	2.00	2.00
Max. picking-up height	5.50	5.50
Distance between bottom plate and floor	1.02	1.02
Dead weight [kg]		
Basic machine from	14700	15000
Loading capacity [m³]		
Usable mixing capacity	17	20
Usable mixing capacity with extension	19	22
Engine power [kW/HP]		
Engine power	165/225	165/225
Axle [m]		
Wheelbase	3.97	3.97
Vehicle height depending on tyres [m]		
435/50 R 19.5	2.74	-
455/45 R 22.5	2.78	3.04



- 6-cylinder engine**
- Engine position at the right-hand front
 - Powerful and economical emission-standard-V-engine
 - Turbo-diesel engine with water cooling
 - Easy maintenance and care of engine and hydraulic power train due to good accessibility from all sides
 - Use of HVO fuel possible

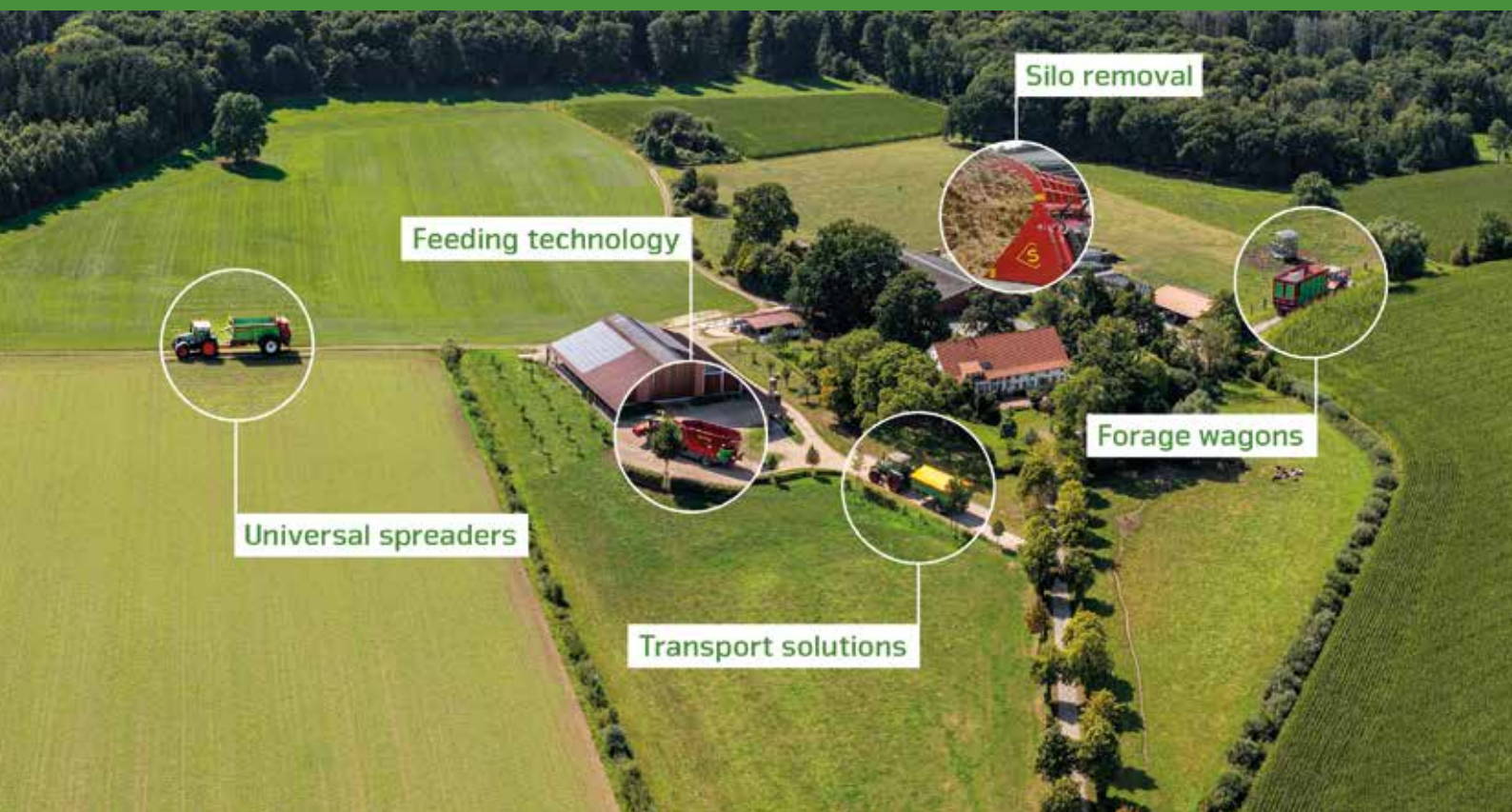
Technical data
Primus 900

	Primus 922	Primus 925	Primus 928
Dimensions [m]			
Width with crossover conveyor	2.55	2.55	2.55
Front outside wheel width	2.53	2.53	2.53
Width with two discharge doors	2.65	2.65	2.65
Length with front crossover conveyor	10.80	10.85	10.90
Length with rear crossover conveyor	10.90	10.95	11.0
Elevator width	0.58	0.58	0.58
Milling cutter diameter	0.61	0.61	0.61
Picking-up width	2.4	2.4	2.4
Max. picking-up height	6.0	6.0	6.0
Distance between bottom plate and floor	1.06	1.06	1.06
Dead weight [kg]			
Basic machine from	19000	19500	20000
Loading capacity [m³]			
Usable mixing capacity	22	25	28
Usable mixing capacity with extension	24	27	30
Engine power [kW/HP]			
Engine power	227 /308	227 /308	227 /308
Axle [m]			
Wheelbase (1st and 2nd axles)	4.77	4.77	4.77
Vehicle height depending on tyres [m]			
495/45 R 22.5	3.02	3.20	3.38



- Hydraulics**
- The pump distribution gearbox is fitted with two independent pump circuits and a total of five pumps.
 - Each pump provides a direct, demand-driven supply to its assigned consumer.

Our solutions for your business at a glance:



www.straumann.com

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