

SILOKING



Trailered Line Selfline



Feed mixing technology

simply | intelligent | feeding





SILOKING Product range



TrailedLine 4.0

Trailed feed mixers,
external loading, 7 - 45 m³



SelfLine 4.0

Self-propelled feed mixers,
self-loading, 12 - 32 m³



TrailedLine Classic

Trailed feed mixers,
external loading, 5 - 22 m³



TruckLine e.0

100 % electric self-propelled feed
mixers, external loading, 8 - 14 m³



StaticLine 4.0

Stationary mixing and dosing
systems, external loading, 5 - 80 m³



Silo griff

Silage collection and distribution
machines. Mounted, trailed & electric
self-propelled, self-loading, 1,8 - 4,2 m³

simply | intelligent | feeding

All of SILOKING's considerations refer to "simply | intelligent | feeding" – focusing on the requirements of the cow and the farmer, finding solutions and implementing them.

Thanks to our innovative products and intelligent solutions for a modern feeding technology, we support future-oriented farms that think in a progressive manner and would like to lay the foundation for a sustainable and successful cultivation of their dairy farming operations.

Successful concepts

SILOKING Innovations are based on intensive research, the practically experienced developers' know-how and intensive test series on farms. The focus is always on the requirements of modern agriculture. First-class feed quality is as important as are reliability, safety, long life and efficiency of the machines.

A complete range of SILOKING Feed mixing technology and collection and distribution technology is produced in series and offers the perfect solution for any farm.

SILOKING 4.0, the new standard

SILOKING **SelfLine 4.0** and **TrailedLine 4.0** models set a new standard when it comes to maximum efficiency, productivity and profitability.

SILOKING's innovative products prove that placing your trust in the technology of one of the world's leading professional feeding equipment manufacturers means benefiting from state-of-the-art technology – with all the performance you will need tomorrow.

This brochure offers you comprehensive information on the **TrailedLine 4.0** and **SelfLine 4.0** ranges on the following pages.

Quality and reliability – worldwide

SILOKING Mayer Maschinenbau GmbH produces innovative feeding technology and distributes it in more than 50 countries all over the world. The owner-managed family company is based in Tittmoning in Bavaria. With more than 420 employees and latest production methods, agricultural machines “Made in Germany” are developed and manufactured with high quality standards.



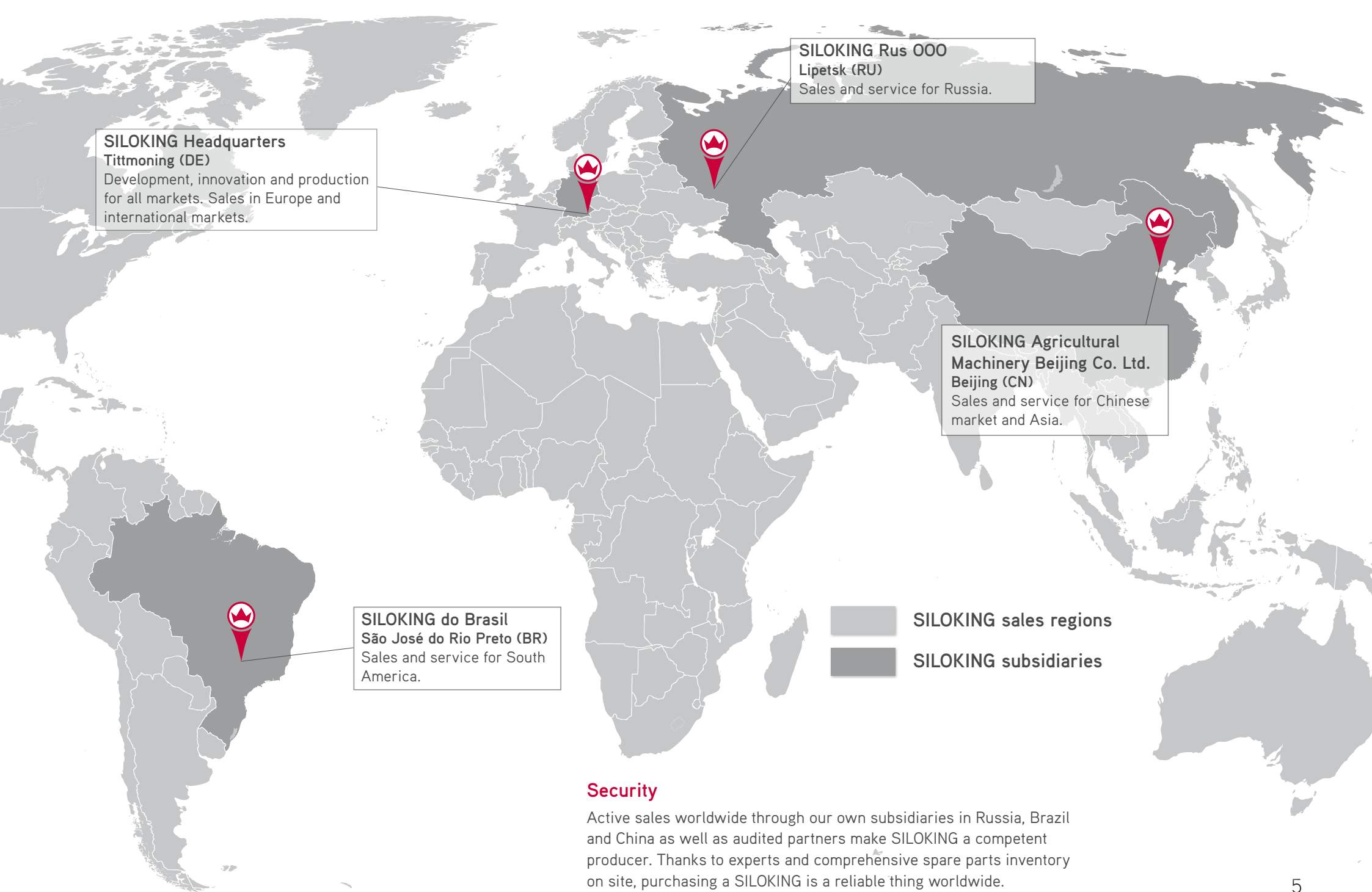
Reliability

The series production as well as continuous quality and end controls ensure highest quality standard and efficient production, because serial production creates reliability. At SILOKING, the high level of vertical integration also involves comprehensive documentation and organization of spare parts supply.



Experience

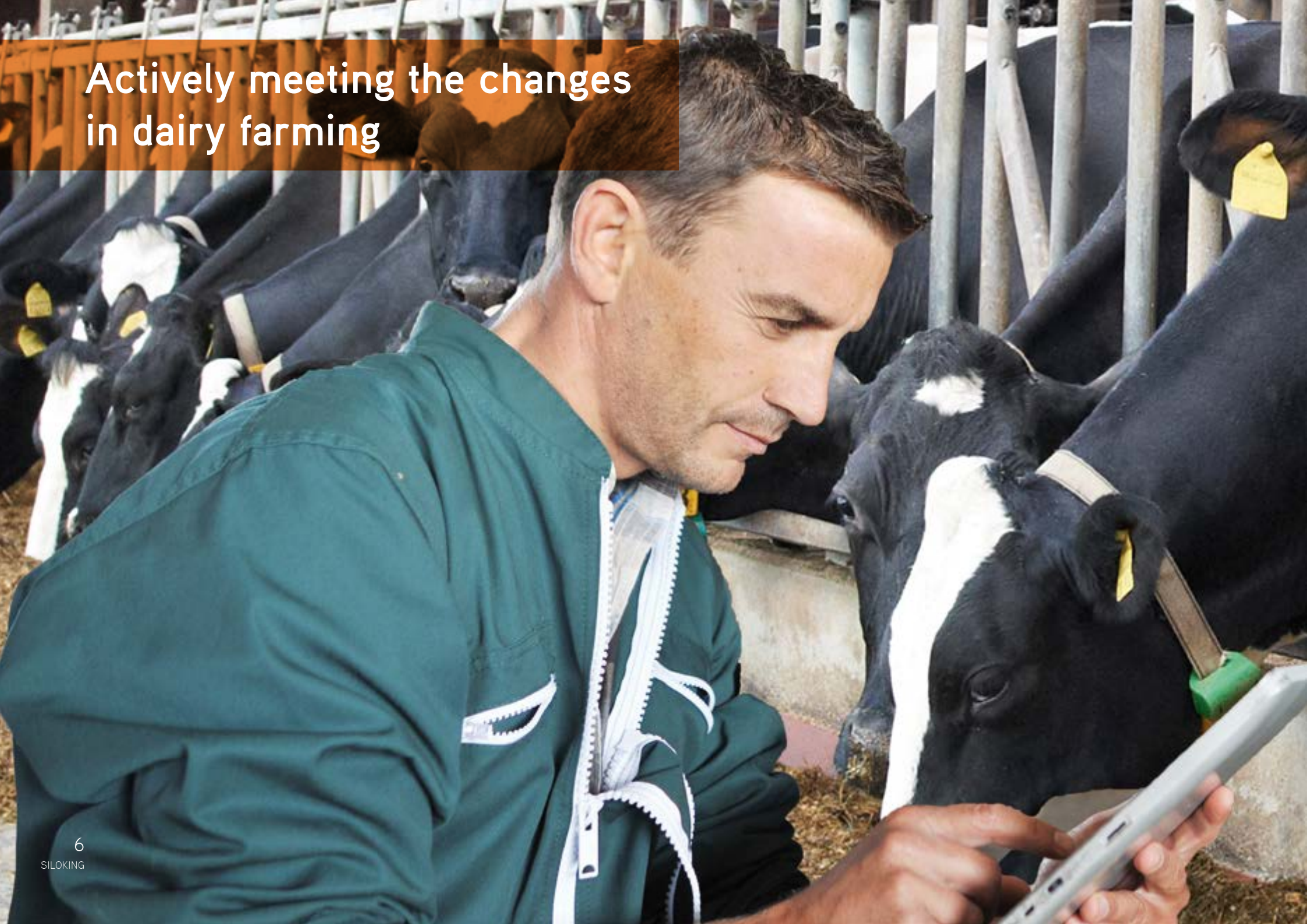
With over 27,000 units in the market, SILOKING has wide experience in manufacturing absolutely reliable, durable and efficient products. Flexible assembly lines allow an up-to-date product mix and a high product output.

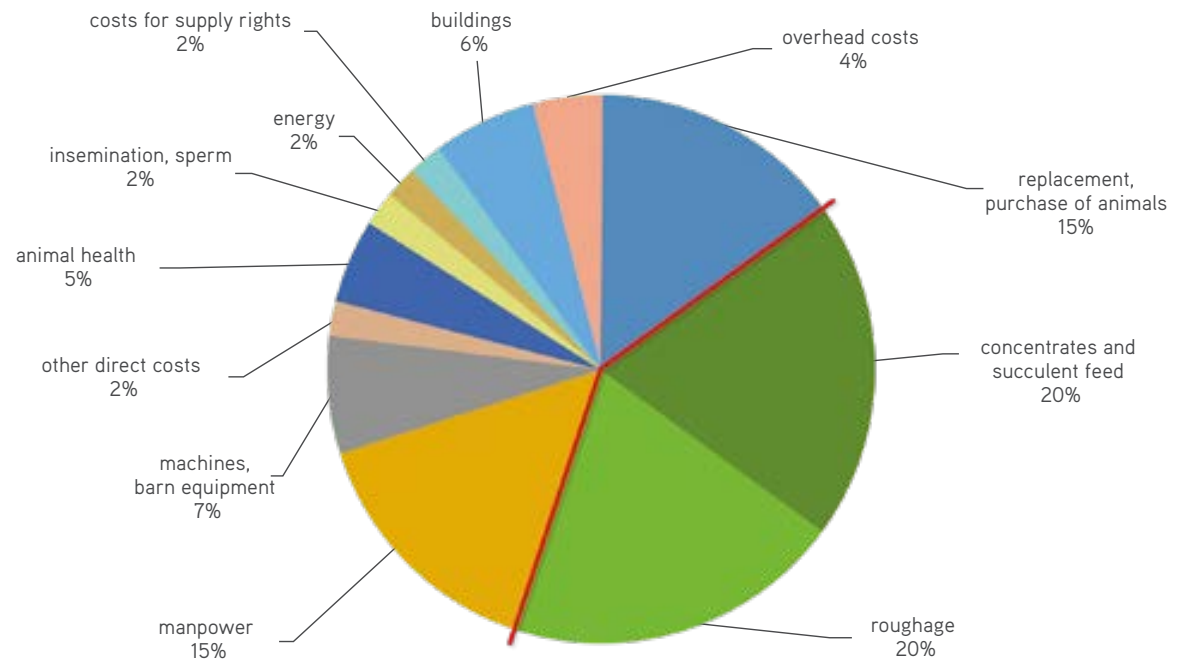


Security

Active sales worldwide through our own subsidiaries in Russia, Brazil and China as well as audited partners make SILOKING a competent producer. Thanks to experts and comprehensive spare parts inventory on site, purchasing a SILOKING is a reliable thing worldwide.

Actively meeting the changes in dairy farming





Feed costs make up 40 % of the total costs.
Source: DLG Mitteilungen 02/2013

Focus on feed costs

Nowadays, one decisive issue for small and large dairy farmers are feed costs. Approximately half of the direct costs per litre of milk are due to basic feed and concentrates. Advanced feeding technology can significantly help with making milk production more efficient and aid in the optimization of processes. How? Among other things by a higher degree of precision!

Along with feeding technology, SILOKING offers the suitable feeding management system that is especially designed to meet the farmer's requirements.



TrailedLine 4.0



Compact 7 m³ - 14 m³

Small and compact and with all the benefits of a big feed mixer. It is especially suited for use in confined buildings.

Page 28 - 29



Premium 1814 / 2218 / 3022 14 m³ - 30 m³

It combines all the features of the master class of feed mixing technology and adapts itself individually to any requirements.

Page 30 - 31



System 1000+ 4535 35 m³ - 45 m³

Designed for the requirements of farms with 1,000 cows and more. Combines high capacity with maximum payload.

Page 32 - 33



Duo Avant 2014 14 m³ - 20 m³

It combines high volume utilization even with a high percentage of long-fibred feed, with a particularly compact design.

Page 34 - 35



Duo Avant 3227 27 m³ - 32 m³

High capacity and low power requirement, one hopper filling feeds min. 200 cows.

Page 36 - 37



Assemblies in detail

Mixing unit, SILOKING SILONOX, chassis, feed discharge, SILOKING Data, SILOKING Feeding Management

Page 12 - 27



SILOKING Data

Radio-controlled weighing system for daily use in cattle feeding.

Page 24 - 27



Accessories

SoftStart, Straw blower, SILOKING Bedding belt, TwinLift, Hybrid, other accessories

Page 38 - 41



Compact 1612 12 m³ - 16 m³

For family farms and large farms, especially with confined and low buildings.

Page 74 - 75



Premium 2215 15 m³ - 22 m³

High volume utilization for farms with large performance groups.

Page 76 - 77



System 500+ 2519 19 m³ - 25 m³

Designed for farms with 500 and more animals, for dairy farms with several locations, feeding communities or agricultural contractors.

Page 78 - 79



System 1000+ 3225 25 m³ - 32 m³

For farms with 1,000 or more animals, designed for maximum payload and performance thanks to its 3-axle chassis.

Page 80 - 81



Assemblies in detail

Mixing unit, SILOKING SILONOX, loading unit, drive unit, hydraulics, chassis, comfort, feed discharge

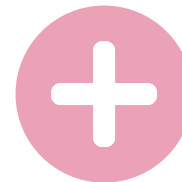
Page 48 - 71



SILOKING Data

Radio-controlled weighing system for daily use in cattle feeding.

Page 72 - 73



Accessories

NIR system, SILOKING Bedding belt, SILOKING Hopper cover

Page 82 - 83



Service

Quality without compromise
Top partnership for your success

Page 84 - 87

Trailedline 4.0

Trailed vertical feed mixers from 7 m³ to 45 m³





Assemblies in detail



Mixing unit

Page 12 - 15

Turbo auger, mixing hopper, gearbox



SILOKING SILONOX

Page 16 - 17

Discharge, wedge-shaped hopper recesses, hopper, turbo auger



Chassis

Page 18 - 19

Frame, axles, wheels, brakes, linkage



Feed discharge

Page 20 - 23

Cross conveyor belt, discharge door



SILOKING Data

Page 24 - 25

Machine box, Data terminal



SILOKING Feeding Management

Page 26 - 27

Feeding Management Software

A close-up photograph of a SILOKING mixing unit. A large, cylindrical metal hopper ring is positioned at the top, with a thick, brown, fibrous material (likely silage) being pushed through its slots. The material is falling into a large, red, oval-shaped mixing unit. Inside the unit, a white, circular mixing blade is visible, partially submerged in the material. The background is a light-colored, textured surface.

The SILOKING Mixing unit

SILOKING **Trailed**Line 4.0 Premium 2218
with FlowPlus hopper ring.

It's the right hopper geometry that makes the difference

The perfect ratio between the hopper height and width and the appropriate mixing auger is at the beginning of the proper operation of the mixing unit. The SILOKING Hopper geometry and the turbo auger are aligned perfectly, which provides for short mixing times while preserving the feed structure in an optimal way. The optimal ratio of hopper : auger reduces the power requirement considerably.



The perfect unit for breaking up round bales and mixing feed components

The design of the mixing unit inside is designed so that even round bales are broken up quickly and reliably. The design ensures complete emptying and therefore avoids clogging.



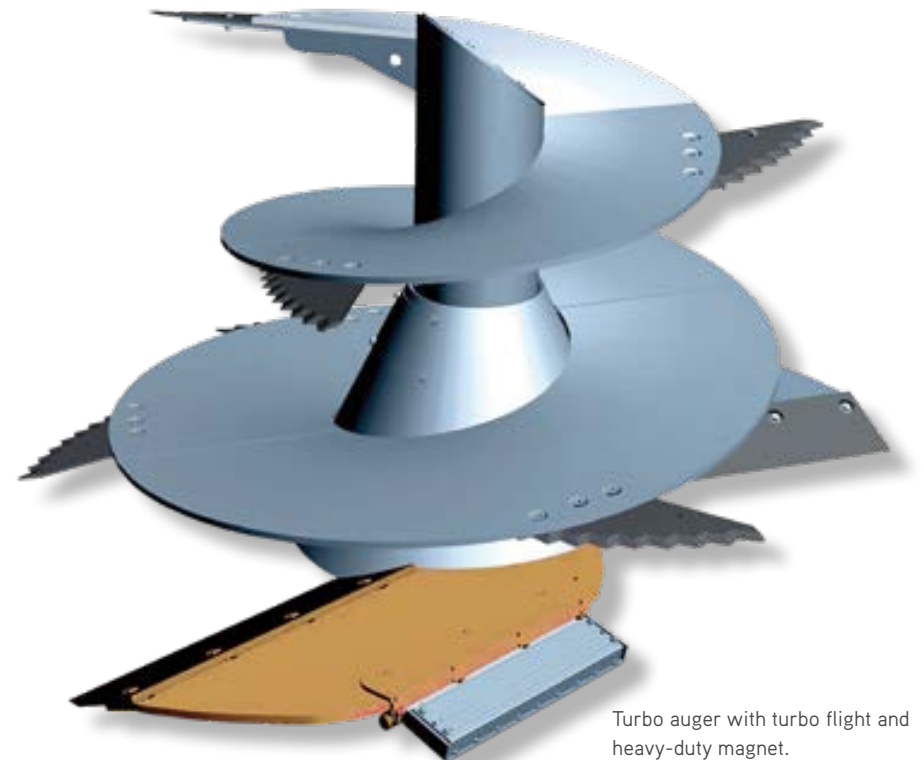
e. g. Premium 2218-22
with 3 windings



e. g. Premium 2218-20
with 2.5 windings



e. g. Premium 2218-18
with 2 windings



Turbo auger with turbo flight and
heavy-duty magnet.

The turbo auger – a SILOKING performance plus

A big auger with low speed preserves the structure and reduces wear. The shape of the turbo auger is the result of years of experience and extensive test series. The optimal lead offers optimal mixing characteristics and reduced power requirement. It rotates at a speed that can be described as gentle in spite of moving a high quantity of feed inside the mix with every rotation.

Two flights produce a more intensive mix result

Every turbo auger is equipped with a turbo flight as standard. It offers shorter mixing times and quick and regular emptying. In order to offer the cow safe and clean feed, a heavy-duty neodymium magnet can be mounted as an option. It removes metallic foreign materials from the feed.

Perfect loading of concentrates

The flat and adjustable scraping bars made of SILONOX collect even concentrates from the hopper bottom and immediately include them into the mix, which makes it possible to add fine feed components any time.





The heart of the feed mixer

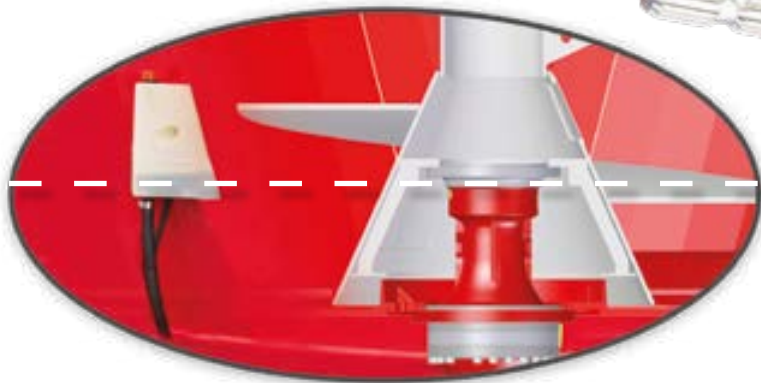


Edged hopper

The edged shape of the hopper slows down the feed in its circular movement and supports vertical mixing. This reduces the mixing time and preserves the feed structure at the same time. In addition, the edged shape increases the hopper's stability and avoids overflow of the mixing hopper by optimizing the flow of the feed.

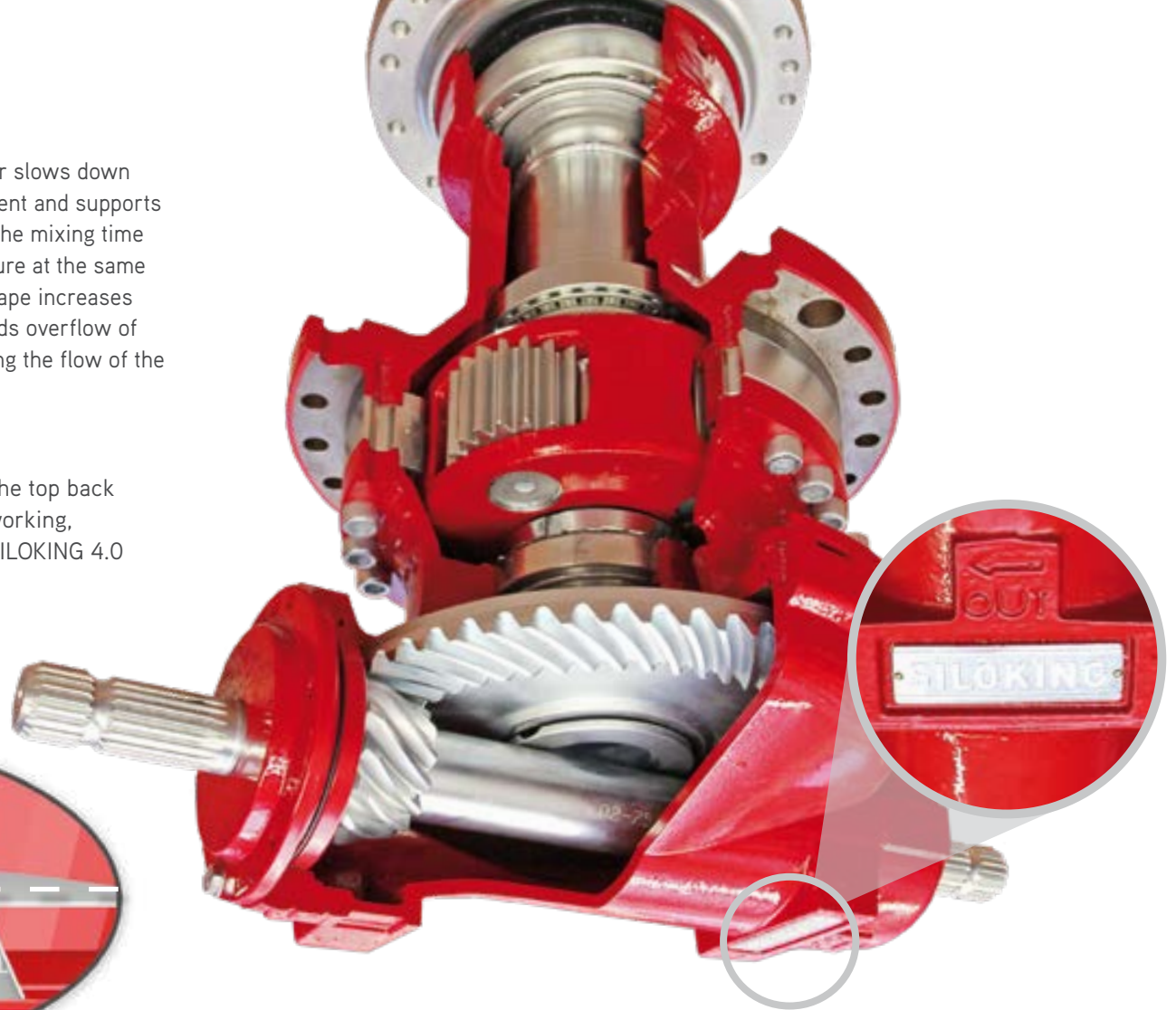
FlowPlus – the special plus

The rounded FlowPlus hopper ring takes the feed from the top back down into the mixing process, thus ensuring clog-free working, even when processing round bales. It is installed in all SILOKING 4.0 models with 2 or 3 mixing augers as standard.



Less wear – more security!

The gearboxes are 100 % oil-lubricated, which equates to very easy maintenance. The gearbox oil can be changed and filled up quickly and without any special tools via the big and transparent oil expansion reservoir.



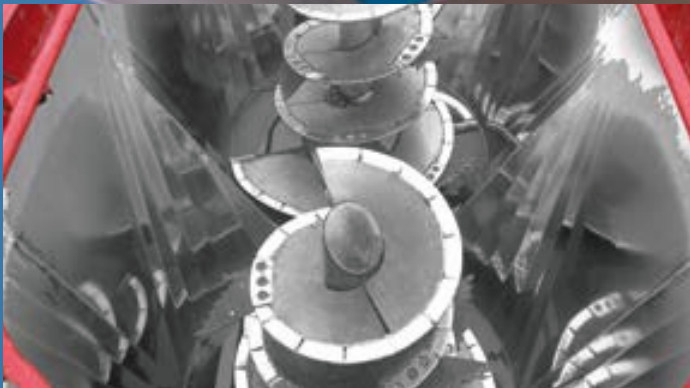
SILOKING 4-planet gearbox

The planetary gearbox has been developed exclusively and only for use in SILOKING Feed mixers. It has been designed for efficiency and long service life even with peak loads with a maximum torque of 52.000 Nm / 250 hp.





SILONOX
for highest requirements





Option: SILONOX Auger edge lining

Standard: SILONOX Wedge-shaped hopper recesses

SILONOX – material description

SILONOX is a particularly hard-wearing solid stainless steel alloy with outstanding wear resistance. It is used exclusively for SILOKING Feed mixing technology.

SILONOX is highly resistant to corrosion, acid and chemical degradation. It also shows excellent resistance to mechanical wear resulting from the mixing process. Strong welds ensure permanent tightness and secure joins – no acid can penetrate.

Durability factor >3 compared with steel S 355 (St-52)

Wear-resistant steel

- ▶ corrosion-resistant
- ▶ acid-resistant
- ▶ abrasion-resistant

SILONOX – the ultimate wear protection of SILOKING

Those components of SILOKING Feed mixers that are subject to the highest degrees of frictional load are provided with wear-resistant plates made of SILONOX as standard. The wedge-shaped hopper recesses between the mixing augers as well as the areas on the sides of the discharge openings are provided with SILONOX Wear protection.

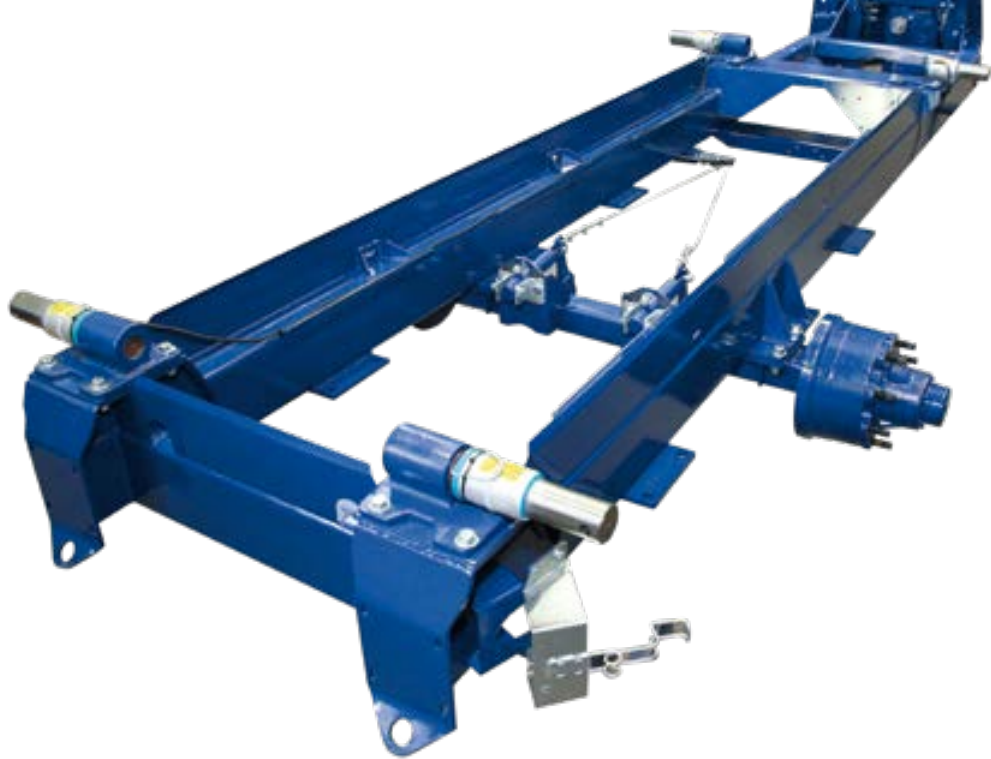
For highest requirements

The SILONOX Wear protection consists of a special stainless steel alloy that is extremely resistant to corrosion, acids and abrasions. It minimizes wear even with high throughput quantities. This allows for the service life of the machine to be greatly expanded without requiring any retrofits.





The load bearing part for
transport and weighing system



Square-bar frame for accurate weighing

The unique square-bar frame offers high stability and forms the basis for the torsion-resistant load cell casings.

Together with the special load cell casings, this offers perfect weighing accuracy, even on unlevel ground and when the mixing hopper is fully loaded.

Best processing for long life

The cables of the weighing system are acid-resistant and they run tidily and safely in cable channels. A SILOKING quality feature for long life and consistently reliable operation of the machine.



Robust chassis – more payload & security

A wide frame forms the basis for better driving stability, increased transport safety and exact weighing 365 days a year.



The load cell casing for pin-point weight calculation

On the side of the hopper, the load cells are in a specially developed cast casing so that the weight transfer is carried out at one point only. The distortion-free position of the load cells on the frame ensures maximum weighing accuracy.

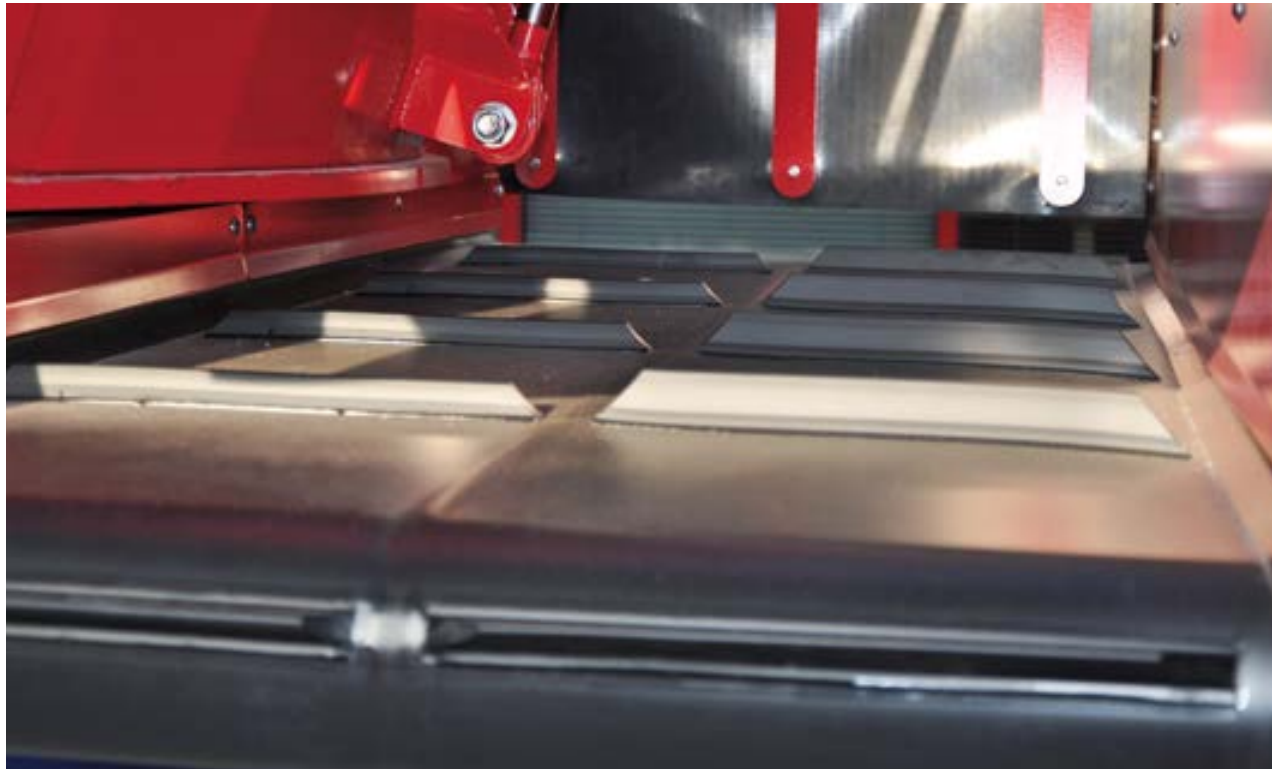


The SILOKING Cross conveyor belt



The SILOKING Cross conveyor belt

A cross conveyor belt allows for depositing feed in a regular and wide feed swath, satisfying the cow's longing for loose feed presentation. Feed to be pushed in later remains fresh and the feed intake of the cows increases. For this benefit, SILOKING offers a unique, reliable and long-life cross conveyor belt.



High conveying performance

SILOKING has used its many years of experience to develop the SILOKING Cross conveyor belt, a reliable and long-life PVC belt. The conveying slats of different heights offer high conveying performance. The belt produces a wide feed swath, is highly reliable and ensures clog-free transport.

As the slats are divided in the middle, the belt remains flexible even with different loads and is therefore reliable and low-wearing. A tracking rib welded inside ensures that the belt runs exactly straight.

Double drive is better

Two drive motors located on the sides always drive the conveyor belt in the pulling direction, no matter which side discharge is carried out. Together with the cleaners inside, this design reduces wear to a minimum. The use of closed drive rollers, scrapers and a special discharge scraper ensures highest operational reliability.

The chain coupling ensures power transmission from the hydraulic motor to the drive roller. It is designed for high torque load.



The conveyor belt is 800 mm wide and open on top, for quick transport of the feed. This guarantees clog-free and gentle feed discharge.





The discharge options



Foldable conveyor belts on the discharge door

They reach under the hopper on the Premium models, thus ensuring transport of feed without spillage. Available in various lengths.



Foldable conveyor belts on the cross conveyor belt

For versatile and flexible use of the feed mixer. Available in different lengths.



Heavy-duty discharge door with discharge chute

Equipped with two lift cylinders and an opening height of 85 cm, the mixing hopper can be emptied in a very short time, even with a high proportion of structure-rich components.



Discharge door

The sharp SILONOX edge on the hopper bottom ensures that the discharge door closes tightly even if there is still feed in the mixing hopper.



The perfect solution for any farm or installation

Individual adaption to any situations. Here you can see a machine with a cross conveyor belt at front and two discharge doors at rear left and at rear right, displaced to the centre by ca. 400 mm.



No interfering edge inside the mixing hopper

SILONOX mounted on the sides of the door opening closes flush with the discharge door on the hopper inside. Robust door guide even for extreme load and highly reliable function as there is no jamming while closing.



SILOKING Data



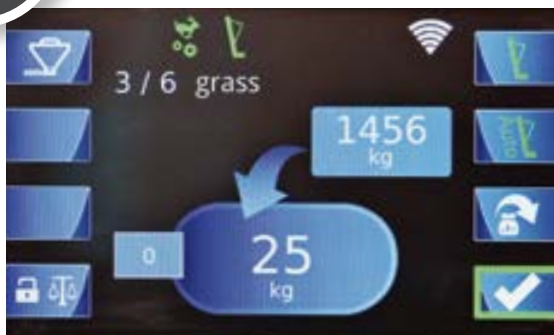
The standard of the future, with SILOKING today – and free of charge!

SILOKING Data is a radio-controlled weighing system for daily use in cattle feeding. It stands out for simple and comfortable control and allows for precise feeding, efficient work and cost saving from the very beginning.



Loading mode

Execute loading programs



Unloading mode

Execute unloading programs



Hydraulic functions

Control of hydraulic functions, such as open/close door, conveyor belt on/off, infinitely variable conveyor belt speed



SILOKING Data T (Tractor control)

- ▶ Data radio terminal as option
- ▶ Programmable weighing system can also be used as adding weighing system
- ▶ Control of the weighing system from the loading vehicle via additional Data radio terminal and/or own smartphone or tablet is possible

SILOKING Data E (Electro-hydraulic)

- ▶ 1 Data radio terminal as standard
- ▶ Control of hydraulic functions via Data radio terminal
- ▶ Programmable weighing system can also be used as adding weighing system
- ▶ Control of the weighing system from the loading vehicle via additional Data radio terminal and/or own smartphone or tablet is possible



The best ration planning on the market!



Feeding Management Software

SILOKING offers the Feeding Management Software as a free top service for the SILOKING Data Programmable weighing system.

This makes it possible for every farmer to work in a still more efficient and cost-saving way, regardless of his farm's size.

Ration handling

Create recipes

- ▶ Create feed components
- ▶ Create animal groups and unloading points
- ▶ Nominal/actual comparison
- ▶ Adaption of dry matter



Documentation/Evaluation

- ▶ Storing of feeding data
- ▶ Evaluation for dairies
- ▶ Documentation for authorities & QA programs
- ▶ Period-related reports
 - Feed consumption
 - Feed costs
 - Loading precision



Advantages and functions

- ▶ Simple registration via SILOKING website: www.siloking.com
- ▶ Web-based application with personalized user access
- ▶ Access from any PC via Internet browser. Offers flexible access from the office, the barn, from home or from the holiday location etc.
- ▶ You always work with the latest software version
- ▶ Thanks to the web-based application there is no need for manual updates
- ▶ GPRS data transfer between weighing system and Feeding Management Software (option)

Use of SILOKING Feeding Management
for management and documentation
free of charge

Planning



- ▶ Easy entry of feed components (also dry matter contents and prices) and various unloading points (animal groups)
- ▶ Easy creation and management of loading and unloading programs incl. adaption of dry matter contents
- ▶ Linkage of loading and unloading programs to a feeding cycle
- ▶ Easy and recipe-specific entry of subsequent mixing time



Feeding



- ▶ Simple and intuitive data export and import via standard USB stick
- ▶ Detailed report indicating all loading and unloading processes
- ▶ Easy archiving of reports in PDF or Excel file format



Control



- ▶ Time filter function for creating period-related reports
- ▶ Presentation of loading precision (nominal/actual comparison)
- ▶ Easy archiving of reports in PDF or Excel file format
- ▶ Period-related analysis of feed consumption



Success



- ▶ Complete documentation and evaluation for dairies and authorities
- ▶ Evaluation of feed costs per kg of milk, feed efficiency and concentrate efficiency

**Keep an eye on costs!
Save money.**



The smooth-running and manoeuvrable



SILOKING TrailedLine 4.0 Compact

Hopper capacities from 7 m³ to 14 m³ with 1 mixing auger

The SILOKING Compact is particularly suited for use with confined buildings.

It stands out for high manoeuvrability and low drag resistance. All models of the Compact model range are equipped with Data T as standard.



The robust underrun protection with integral lighting protects humans, animals and the machine in an optimal way by day and by night.



With various discharge options, the feed mixer can be individually adapted to the farm conditions.

TrailedLine 4.0 Compact models also break up round bales without problems.



Welcome to the master class!



SILOKING TrailedLine 4.0 Premium 1814 / 2218 / 3022

Hopper capacities from 14 m³ to 30 m³ with 2 mixing augers

The Premium models meet any requirements

Choosing from different hopper heights/widths and tyres makes it possible to exactly adapt the machine to the passage heights and widths in the barn or to the maximum height of the loading vehicle. The optimal ratio between the hopper geometry and the mixing auger is of major importance so that an increased hopper capacity also involves an increased number of auger windings.

SILONOX Wear protection on the wedged-shaped hopper recesses and on the discharge door as well as SILOKING Data T belong to the standard equipment of all models.



Modular for the perfect size

Due to the special hopper design, the models within the ranges differ only as far as the hopper height and the turbo auger height are concerned. The chassis and the drive remain unchanged as they are always designed for the maximum size.

FlowPlus hopper ring mounted as standard.



A tandem axle comes as standard in all models from **TrailedLine 4.0** Premium 3022-26 upwards (with steering axle or steering axle with forced steering as an option). It is optional for all other models.



The discharge door and the hopper wall are flush inside, thus improving the mixing efficiency and reducing the power requirement.



Capacity and maximum
payload in the spotlight!





High capacity – one hopper filling feeds up to 300 cows.



TrailedLine 4.0 System 1000+ 4535-40 with heavy-duty equipment.



TrailedLine 4.0 System 1000+ 4535-40 / 45 with tridem axle with 2 steering axles as standard.

TrailedLine 4.0 System 1000+ 4535

Hopper capacities from 35 m³ to 45 m³ with 3 mixing augers

SILOKING **TrailedLine 4.0 System 1000+ 4535** combines high capacity with maximum payload. Designed for the requirements of farms with 1,000 cows and more.

Developed for the needs of large farms

The SILOKING Tridem axle distributes the weight onto 3 axles and reduces the load on the farmyard ground when travelling with the mixing hopper filled. In addition, it provides highest comfort during quick road travel, even with the maximum permitted load of more than 18 t. Along with the required safety, the 2 steering axles of the tridem axle ensure excellent manoeuvrability on the farm.

Maximum power of impact saves time and money!

The 3 vertical mixing augers provide quick and homogeneous feed mixing, which additionally saves time and diesel.

The models come with SILOKING Data T and SILONOX on the discharge and on the wedge-shaped hopper recesses as standard.

The machine can be equipped with a SoftStart clutch as an option.



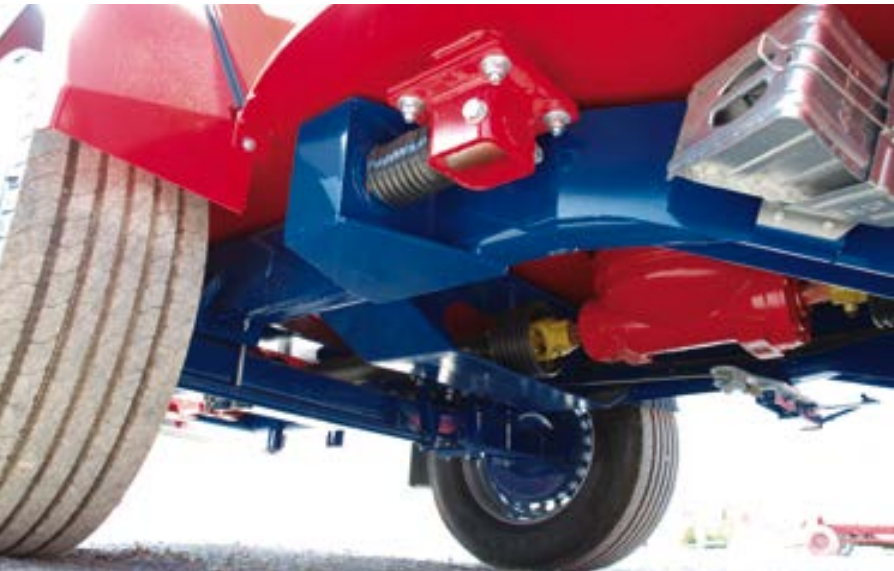
The range for increased flexibility and efficiency!



SILOKING TrailedLine 4.0 Duo Avant 2014

Hopper capacities from 14 m³ to 20 m³ with 2 mixing augers

Due to the optimized and conical hopper geometry, combined with a particularly compact design, a considerably higher utilization of the hopper volume can be achieved even if the ration includes a high percentage of long-fibred feed. In addition, the Duo Avant offers low drag resistance and reliable function.



The big tyres exactly fit in the hopper waist.



Conical hopper shape, FlowPlus hopper ring and compact dimensions are characteristic of the Duo Avant.

Integrated weighing frame

Here too, the load cells of the weighing frame integrated into the chassis are not mounted in the frame, but on the frame instead. This way, they are given the torsion-resistant and robust characteristics of the SILOKING Square-bar frame – for exact weighing results at any moment of loading.

Optimized mixing unit

The conical shape of the mixing hopper together with the adapted turbo auger ensures that long-fibred material also returns to the lower part of the mixing unit. Low drag resistance and high flexibility make the Duo Avant particularly efficient.

The models come with SILOKING Data T and SILONOX on the discharge and on the wedge-shaped hopper recesses as standard.



Payload and efficiency in the spotlight!



SILOKING TrailedLine 4.0 Duo Avant 3227

Hopper capacities from 27 m³ to 32 m³ with 3 mixing augers

This range combines high capacity with low power requirement. One hopper filling feeds at least 200 cows. The 3 vertical mixing augers provide quick and homogeneous feed mixing, which additionally saves time and diesel.

Efficiency for large farms

Due to the small diameter of the bottom plate and the conical hopper shape, only 100 hp are required for the drive of the innovative 3-auger vertical feed mixer with 27 m³ and 32 m³ capacities.

The machine starts without any problems even with a payload of up to 12 tonnes and after a long idle time. This is gentle on the tractor's drive.



Optimal also for a high percentage of grass.



Forced steering for excellent manoeuvrability (optional).



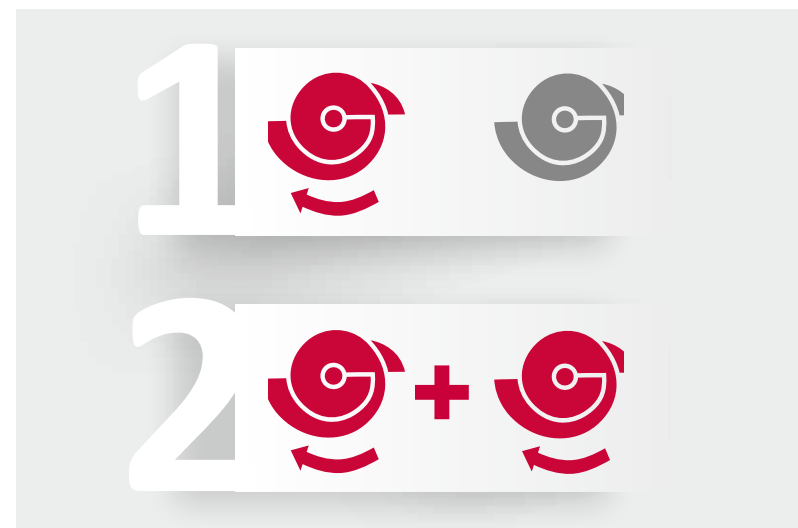
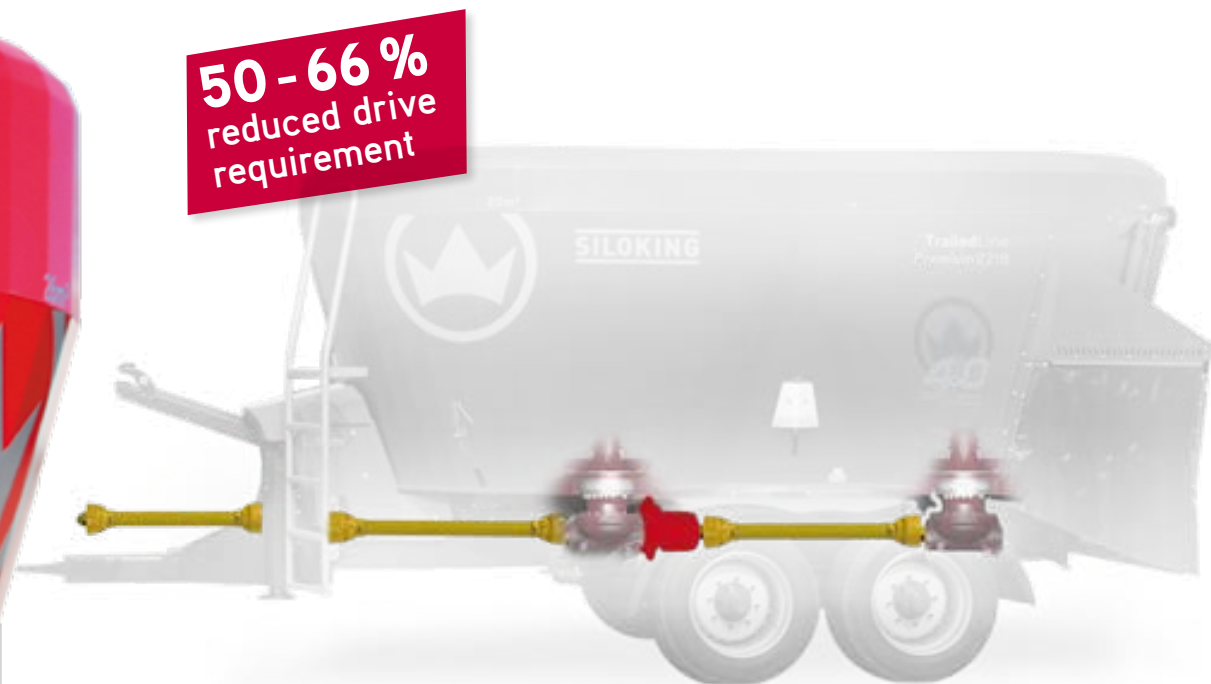
The models come with SILOKING Data T and SILONOX on the discharge and on the wedge-shaped hopper recesses as standard.

Less drive requirement
and less wear



SoftStart clutch for SILOKING TrailedLine

**50 - 66 %
reduced drive
requirement**



Step 1: starting with one mixing auger

Step 2: switching on the second and if applicable third mixing auger under load

For everyone who drives long distances or leaves the machine loaded

During longer driving distances between silo and barn or if a high-capacity vertical feed mixer is not immediately unloaded, the material inside the hopper compacts. This results in a high starting torque requirement when starting the 2 to 3 mixing augers simultaneously, which highly strains the tractor's PTO clutch. Furthermore a tractor with a rather high engine power is required for the start.

Drive requirement reduced by 50 - 66 %

SILOKING offers the SoftStart clutch as an option for the model ranges of **TrailedLine 4.0 Premium**, Duo Avant and System 1000+. This hydraulic clutch especially developed for SILOKING Feed mixers is located between the planetary gearboxes of the individual mixing augers. By starting only one auger – switching on the other auger(s) later – the drive requirement of the tractor can be reduced by up to 50 % (for models with 3 augers by up to 66 %).



Matching solutions for your farm



SILOKING Straw blower

High-capacity straw blower with mechanical drive

The combination of mixing unit and straw blower allows for multiple use of the SILOKING feed mixer. The high-capacity straw blower distributes even long-fibred material exactly and to distant places in the barn. The integrated stone trap between the mixing hopper and the blower avoids stone chipping in the barn.



SILOKING Bedding belt

Combination of feed discharge and large-distance bedding

The SILOKING Bedding belt offers the perfect combination for feed discharge and large-distance bedding of cubicle beds and cubicle housings. Control of the bedding belt is carried out hydraulically, but it can also be carried out (electro-hydraulically) via SILOKING Data E as an option. As the bedding belt is swung under the cross conveyor belt, the vehicle width is not changed.



SILOKING TwinLift

Sliding cross conveyor belt with automatic height adjustment

This conveyor belt can be slid hydraulically to either side, and the outer end is lifted automatically by up to 50 cm. It is also possible to slide the belt horizontally via simple lever operation. This system is characterized by two-sided feed discharge into high troughs.



SILOKING Hybrid

Diagonal conveyor belt for particularly narrow barns with high troughs

The diagonal conveyor belt is mounted in an inclined position. Not foldable, it keeps the whole machine narrow, even in working position. The SILOKING Hybrid conveyor belt also offers the required collision safety as the conveyor belt protrudes only slightly beyond the right feed mixer side.

Other accessories

SILOKING offers a whole range of additional equipment to meet any special requirements of the respective farm. Reliable function and correct adaption to the machine ensure reliability and comfortable work 365 days a year.



SILOKING Adding weighing system

The adding weighing system is a basic equipment for the weighing function (optional for **TrailedLine** 4.0 models), which exactly displays the current weight during loading and unloading. As opposed to SILOKING Data, this weighing system is mounted on the feed mixer.



SILOKING Programmable weighing system DG600

It is available as an option for **TrailedLine** 4.0 models. With the program function, the maximum performance of the herd can be reached through feeding.

Reversing camera including high-resolution monitor.



Control unit with Bowden cable control.



Wide-angle drive shaft and lower linkage.



Hydraulic shift for 2-speed gearbox.

Other options

- ▶ Infinitely variable control of conveyor belt speed
- ▶ Mechanical control unit with lever operation
- ▶ On-board power supply for the weighing system
- ▶ Mineral feed filling funnel
- ▶ Several tyre options to adapt the total height
- ▶ Heavy-duty magnet on the turbo auger
- ▶ SILONOX Wear protection
- ▶ Various discharge options
- ▶ Special hopper dimensions for adaption to barn passages
- ▶ Hydraulic counter-blades
- ▶ Hydraulic jack
- ▶ and lots of other options





Selfline 4.0

Self-propelled vertical feed mixers from 12 m³ to 32 m³



Assemblies in detail



Mixing unit

Turbo auger, hopper

Page 48 - 51



SILOKING SILONOX

Discharge, wedge-shaped hopper recesses, hopper, turbo auger

Page 52 - 53



Loading unit

High-performance milling head, conveying channel, knives

Page 54 - 55



Drive unit

Engine, hydraulics, radiator

Page 56 - 61



Chassis

3-point design, rear steering

Page 62 - 65



Comfort

Cab, control

Page 66 - 69



Feed discharge

Discharge conveyor, discharge door, foldable conveyor belts

Page 70 - 71



SILOKING Data

Machine box, Data terminal

Page 72 - 73



Concerning efficiency, all
good things come in four

Why self-propelled?

Time, precision, fuel requirement and comfort – four aspects for lasting success

Today's feed mixing technology primarily concerns some important factors for increasing efficiency: the amount of time and fuel required as well as feed input. Even during the creation of the mixed ration, a self-propelled feed mixer with self-loading saves up to 50 % of time in comparison to a trailed feed mixer with external loading via a front loader or farm loader. The fuel savings per t of loaded, mixed and discharged feed can also be substantial.

Experience gained via more than 2,000 machines sold and operating confirms big savings

A comparison test of the Oldenburg Chamber of Agriculture (Landwirtschaftskammer) confirms: the filling, mixing, manoeuvring and emptying of feed mixes is significantly quicker when performed with a self-propelled machine. In comparison to an externally loaded model, it also achieves better fuel economy – per t of feed, the self-propelled variant requires almost 25 % less fuel.

Precision for highest performance

According to the Saxon feeding expert Dr. Steinhöfel, feed loading deviations of 5 % on roughage and succulent feed, 10 % in concentrates, 25 % in mineral feed and 15 % for special feeds are to be expected. "These tolerances alone already cost 1.5 cents / kg or 135 € per cow per year. Since the differences often are considerably higher, money is surely being lost", says Dr. Steinhöfel. With the new self-propelled generation the calculated ration can be implemented extremely precisely and these differences can be minimized significantly, thus both feed costs reduction and a homogeneous, consistent ration for highest performance can be guaranteed.

Better mixes, fewer feed losses

The self-propelled feed mixer is also of use for the feed itself. And this is true in several respects: the precise loading and mixing allows for the creation of significantly more homogeneous and reliable rations. The advantages of a firm and evenly cut face on the silo equates to less subsequent warming and minimized loss of material – not to mention the significantly reduced workload.



SILOKING SelfLine 4.0

Better than the standard!

According to DLG-APPROVED FULL TEST

Minimal hashing effect		
++	Loader wagon grass silage	5 %
++	Grass silage	7 %

Low noise	
++	Noise level 72.3 dB(A)

Highest mixing accuracy* minimal deviation [%]		
	half-full mix	full mix
+	Loader wagon grass silage/ maize silage	2,5 % 2,6 %
+	Grass silage/maize silage	2,0 % 1,8 %

Best removal performance	
++	Loader wagon grass silage: 962 kg/min
++	Grass silage: 1.269 kg/min
++	Maize silage: 3.255 kg/min



A first-class workplace	
++	Enhanced space availability
++	Wide and comfortable entry
++	Convenient and easy-to-manage multifunction lever for the cutting arm
++	Height and tilt adjustable steering wheel
++	Additional windshield wiper on the right handside window and roof window
++	Economically beneficial layout and handling capability for the controls
++	Attached LED lights illuminate the work area very well

Exact weighing results	
++	< 1 % deviation from the true filling weight

Perfect swath discharge	
++	No running over swath

Maximal manoeuvrability	
++	max. turning radius 4,81 m

Tried and tested operation with more than 2,000 machines sold

We put two self-propelled at the DLG's disposal and had them rigorously tested. In order to offer a wide variety of results, the **SelfLine Compact** and **SelfLine Premium** models were closely examined.

The results are impressive, but see for yourself.



Minimal hashing effect		
++	Loader wagon grass silage	6 %
++	Grass silage	5 %

Low noise	
++	Noise level 70.6 dB(A)

Highest mixing accuracy* minimal deviation [%]		
	half-full mix	full mix
+	Loader wagon grass silage/ maize silage	2,8 % 2,6 %
+	Grass silage/maize silage	2,1 % 2,5 %

Best removal performance	
++	Loader wagon grass silage: 947 kg/min
++	Grass silage: 1.324 kg/min
++	Maize silage: 3.521 kg/min



A first-class workplace	
++	Enhanced space availability
++	Wide and comfortable entry
++	Convenient and easy-to-manage multifunction lever for the cutting arm
++	Height and tilt adjustable steering wheel
++	Additional windshield wiper on the right handside window and roof window
++	Economically beneficial layout and handling capability for the controls
++	Attached LED lights illuminate the work area very well

Exact weighing results	
++	< 1 % deviation from the true filling weight

Perfect swath discharge	
++	No running over swath

Maximal manoeuvrability	
++	max. turning radius 5,57 m

Evaluation range: ++ | + | o | - | --
(++ = best possible evaluation, o = Standard)
*Evaluation range during the mixing: + | o | -
(+ = best possible evaluation)

Read more on the DLG full test on
www.dlg.org or www.siloking.com





The turbo auger –
for that extra performance



Feed structure preserved and precision

Large mixing auger plus low speed equals gentle treatment of feed structure – that is the convincing equation in favour of the turbo auger. It rotates at a speed that can be described as gentle in spite of moving a high quantity of feed inside the mix with every rotation. The turbo auger is the result of years of experience and extensive testing by SILOKING.

Mixing quality involves safe feed

The mixing augers are provided with an additional turbo flight as a standard. This turbo flight ensures an optimal mixing of smaller ration quantities and a quick and even emptying of the mixing hopper. It is also equipped with a heavy-duty magnet to protect against metallic foreign materials inside the feed. This optional heavy-duty magnet is placed so that all foreign materials are reliably removed from the feed.

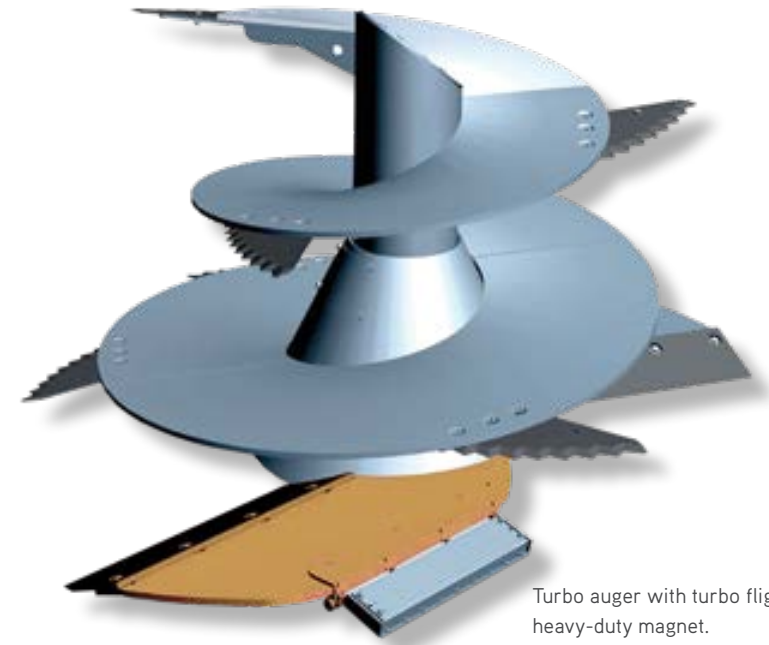
Better cutting, faster mixing

The “pulling cut” is a special feature of the turbo auger’s XS knives. This results in an improved cutting effect (even for long-fibred feed components), less power requirement and an improved, gentle treatment of the feed. The cutting angle of the XS knives can be adjusted in three stages and thereby easily adapted to individual requirements.

Perfect loading of concentrates

The flat and adjustable scraping bars on the mixing auger and the turbo flight offer perfect collection of fine feed components – also from the hopper bottom. This ensures precise mixing even if concentrates are loaded first and allows for adding fine feed components any time.

The wear-resistant scraping bar made of SILONOX is also an example of high stability, even under immense loads.



Turbo auger with turbo flight and heavy-duty magnet.



Neodymium heavy-duty magnet.



Adjustable scraping bar.





It's the right mix that matters



Hopper geometry and turbo auger are optimally matched

The size of the mixing hopper and the mixing auger are of great importance for a homogeneous mix. In order to achieve short mixing times and optimal preservation of the feed structure, every model of the SILOKING **SelfLine** 4.0 has its own hopper that is carefully designed in accordance with the required shape, height and width. The size of the turbo auger is optimally matched to the hopper dimensions.

Feed in perfect motion

The edged hopper slows down the feed in its circular movement and supports vertical mixing even with low filling levels. This not only achieves rations that are always homogeneous and structure-gentle, but also serves to optimize mixing times, thereby saving much time and fuel costs as a constant “stirring” of materials can be avoided.

SILOKING 4-planet gearboxes where power is transmitted

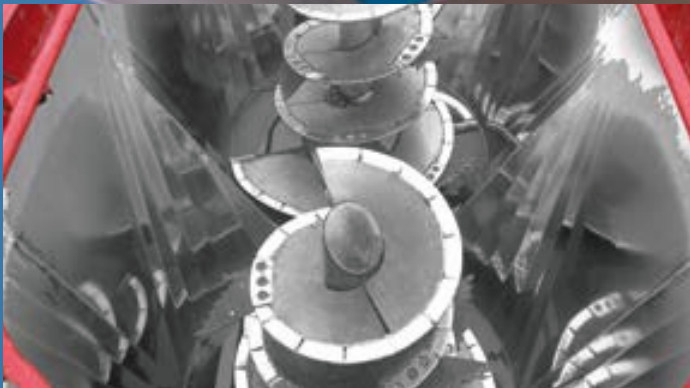
The planetary gearbox has been developed exclusively and only for use in SILOKING Feed mixers. For the high performance expected from the feed mixer even under maximum load, this gearbox with 4 planets and optimal gear reduction levels has been designed with a maximum torque of 52,000 Nm / 250 hp. The gearbox is 100 % oil-lubricated, which equates to very easy maintenance.

A guarantee for long service life and reliability

The areas on the sides of the discharge doors and the wedge-shaped hopper recesses are equipped with SILONOX as standard. If higher loads are expected, for example when regularly mixing 40 t or more of TMR per day, SILOKING recommends to have the hopper walls, bottom and the mixing auger be provided with SILONOX as an option as well.



SILONOX
for highest requirements





Option: SILONOX Auger edge lining

Standard: SILONOX Wedge-shaped hopper recesses

SILONOX – material description

SILONOX is a particularly hard-wearing solid stainless steel alloy with outstanding wear resistance. It is used exclusively for SILOKING Feed mixing technology.

SILONOX is highly resistant to corrosion, acid and chemical degradation. It also shows excellent resistance to mechanical wear resulting from the mixing process. Strong welds ensure permanent tightness and secure joins – no acid can penetrate.

Durability factor >3 compared with steel S 355 (St-52)

Wear-resistant steel

- ▶ corrosion-resistant
- ▶ acid-resistant
- ▶ abrasion-resistant

SILONOX – the ultimate wear protection of SILOKING

Those components of SILOKING Feed mixers that are subject to the highest degrees of frictional load are provided with wear-resistant plates made of SILONOX as standard. The wedge-shaped hopper recesses between the mixing augers as well as the areas on the sides of the discharge openings are provided with SILONOX Wear protection.

For highest requirements

The SILONOX Wear protection consists of a special stainless steel alloy that is extremely resistant to corrosion, acids and abrasions. It minimizes wear even with high throughput quantities. This allows for the service life of the machine to be greatly expanded without requiring any retrofits.



Maximal loading capacity



Milling head does not affect feed structure

When it comes to gentle feed handling, SILOKING follows the maxim: "Less is more." This is also true for silo extraction. The 2-metre wide high-performance milling head of the SILOKING **SelfLine 4.0** is equipped with 42 cranked knives coated in tungsten carbide and an equal number of transport shovels – exactly the right amount and with the perfect arrangement to not impair the feed structure while ensuring a high loading performance at the same time.

Designed for a long service life

The milling head can load feed components of all types exactly. The milling head drum casing is made of wear-resistant SILONOX and designed for a long service life. The robust HARDOX scraping bar can be easily replaced, if required.

Smooth feed transport

The conveying channel of the SILOKING **SelfLine 4.0** is arranged almost symmetrically. This guarantees quick transport of the feed as there is no risk of backflow. The conveying channel with a width of 700 mm guarantees a smooth material flow. Two heavy, standing lift cylinders ensure stable guide of the milling head and conveying channel at the same time.

Perfect combination

No matter if the self-propelled is equipped with 1, 2 or 3 mixing augers: The arrangement of the milling head and the loading conveyor belt is always the same. Thanks to series production, this design ensures high operational reliability.

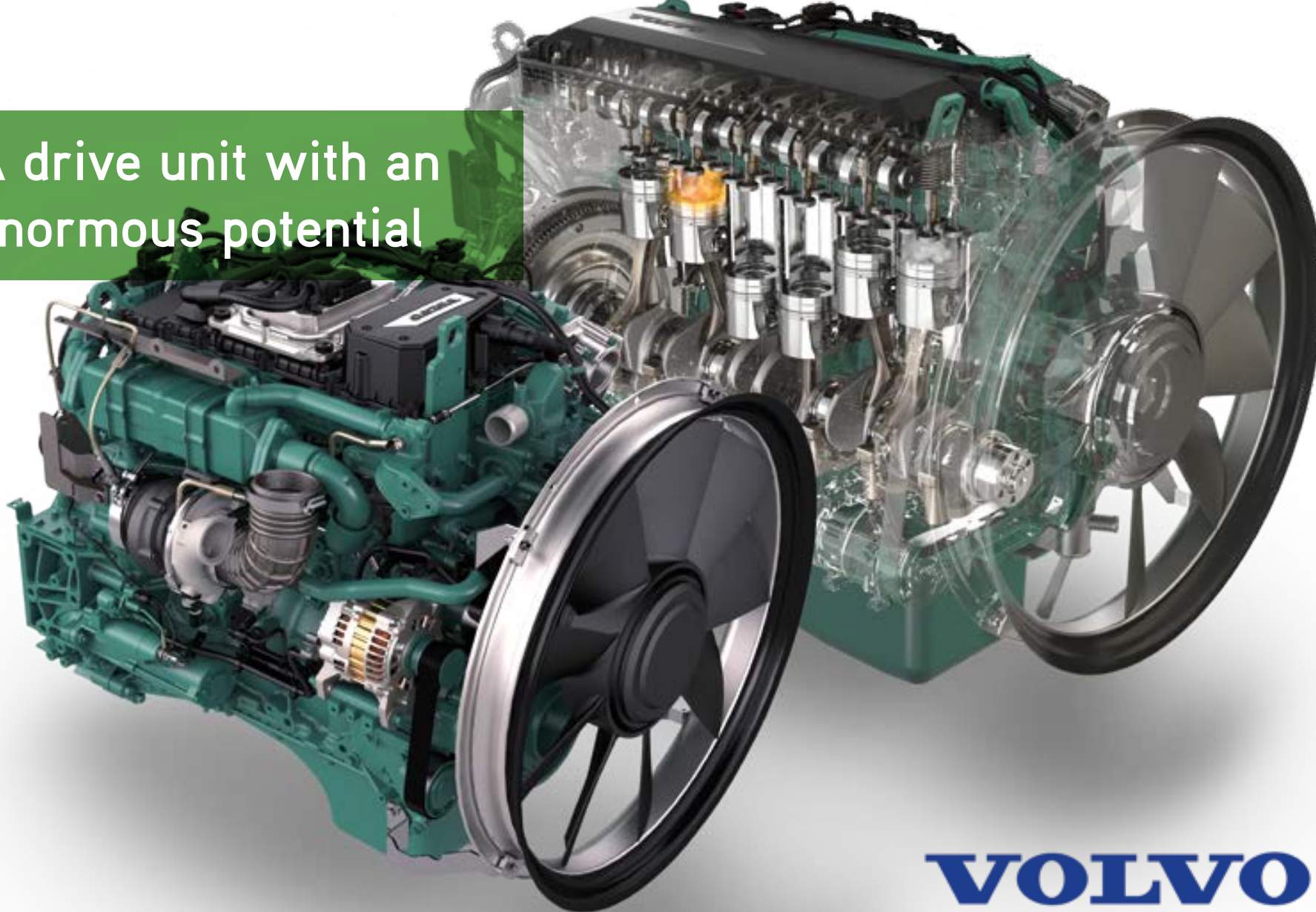


Intelligent transfer between conveying channel and mixing hopper

The drive of the loading conveyor belt with power belt is arranged in such a manner that the belt always pulls. This avoids wear and offers an efficient drive.



A drive unit with an enormous potential

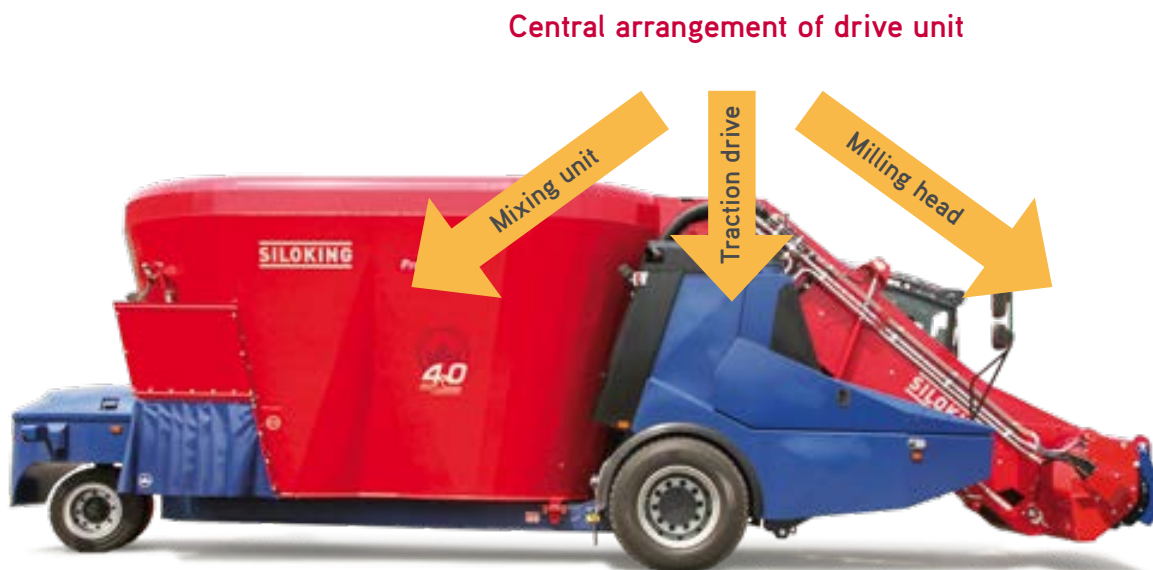


A strong heart

The SILOKING **SelfLine** 4.0 is equipped with a strong heart: the Volvo 4-cylinder D5 engine (Compact / Premium) or Volvo 6-cylinder D8 engine (System 500+ / 1000+), which meets stage IV. The high-torque Volvo engine is not only extremely powerful and fuel-efficient. Thanks to its extremely long maintenance intervals, it is also uniquely economical.

Reliable power

- ▶ 4-cylinder engine with 5.1 litres cylinder capacity and 105 – 160 kW (143 – 214 hp)
- ▶ 6-cylinder engine with 7.7 litres cylinder capacity and 160 – 210 kW (218 – 286 hp)
- ▶ extremely high torque at low speed
- ▶ long service life
- ▶ reduced wear through low vibration
- ▶ very low fuel consumption



Conventional
engine technology



SILOKING 4.0
engine technology

Maintenance every 1,000 hours only

The engine oil must only be replaced every 1,000 operating hours or once a year. Compared to engines of similar power, this equals 50 % less maintenance time and costs as well as much higher machine availability. The fact that standard engine oils can be used has an additional positive effect on operating costs. The engine is also equipped with other features, such as the electronic oil gauge, which alerts the user to a critical oil level. Easy access to the engine itself is another factor in contributing to the service- and maintenance-friendliness. The maintenance interval is particularly important on large farms with operating times of > 1,000 h per year. Therefore, we have halved it to 1,000 h. The use of standard oil and filters has reduced the maintenance costs additionally.

Maintenance-free exhaust gas treatment

The maintenance-free exhaust gas treatment system of the Volvo engine offers additional savings potentials. Thanks to SCR technology (selective catalytic reduction), the emission of harmful nitrogen oxides is reduced to a minimum – in a pleasingly easy manner. Whereas other manufacturers require additional units and particle filters to satisfy the strict emission standards, only one thing is necessary for the Volvo system: to refill a bit of AdBlue every now and then. Apart from that, the maintenance-free catalytic converter does all the work.





Smooth hydraulics

Uncompromising quality and highest efficiency

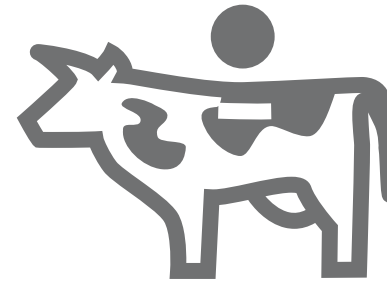
The hydraulic system of the SILOKING **Self**Line 4.0 is just one of many highly efficient units which only have one goal: achieving the best productivity and efficiency. All units of the SILOKING **Self**Line 4.0, such as the loading unit, mixing unit and drive unit are hydraulically driven. In spite of the high number of consumers, the sophisticated hydraulic system only requires 140 liters of hydraulic oil (Compact / Premium).

370 l

standard self-propelled
(maximum)

140 l

SILOKING 4.0
Compact or Premium
models



Triple saving SILOKING 4.0 Hydraulic system



Oil quantity



1,000 h of
maintenance interval



Standard oil and
filters

Easy and inexpensive maintenance

The technically sophisticated new filter system with suction return filter means that the hydraulic oil is filtered 100 %. This results in long maintenance intervals of 1,000 operating hours. And thanks to the use of standard oils and filters, maintenance costs are further reduced.

Best cold-start behaviour

The new SILOKING Self-propelled machine is also equipped with a hydraulic oil pre-heating system as standard, which leads to an excellent cold-start behaviour.



More than efficient performance

Best cooling performance for highest efficiency

The SILOKING **Self**Line 4.0 is equipped with a large single-surface radiator, which ensures highest cooling power and therefore maximum efficiency. The modules for oil, water and charge air are arranged next to one another instead of behind one another and form a large-scale radiator unit. This inevitably leads to an excellent cooling performance. The cooling packages of all models are designed for a maximum engine power of 218 hp under all operating conditions.

Always proper air supply

In daily use in the silo and barn, the radiator is always exposed to a high degree of dust pollution. The SILOKING **Self**-propelled is therefore equipped with an automatic reversing device for radiator cleaning purposes by default, which cleans any contaminated radiator using a concentrated air flow. The interval-based radiator cleaning system, which is standard, minimizes cleaning requirements enormously. The efficient cooling system thereby saves fuel and maintenance costs.

Clean air for optimal outputs

The air filter of the SILOKING **Self**Line 4.0 is a multi-filter system, consisting of a coarse dirt separator, a centrifuge and a large filter cartridge. The upstream coarse dirt separator, which is maintenance-free, minimizes the cleaning efforts of the air filter significantly.

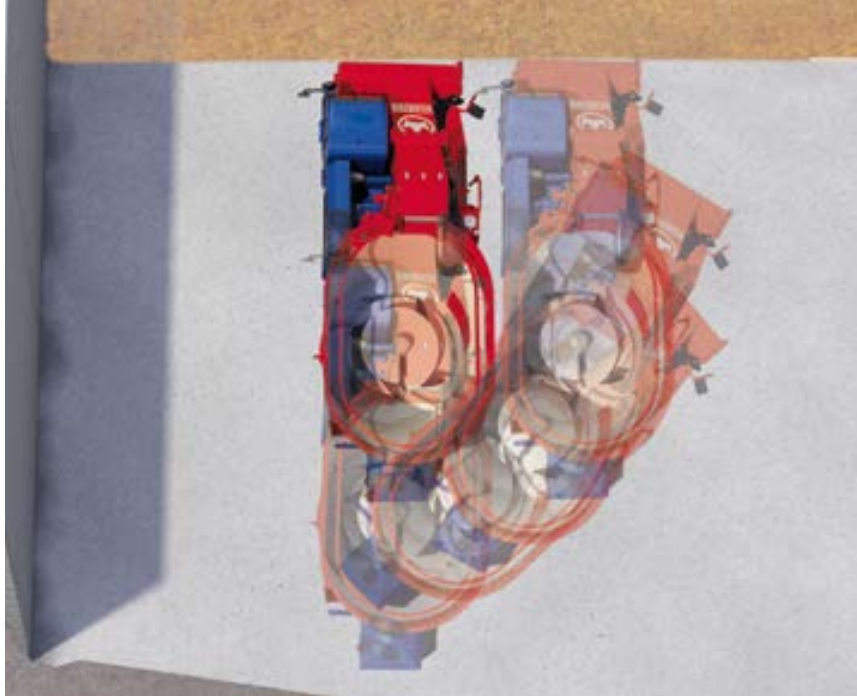


Large single-surface radiator



A chassis with unbeatable manoeuvrability





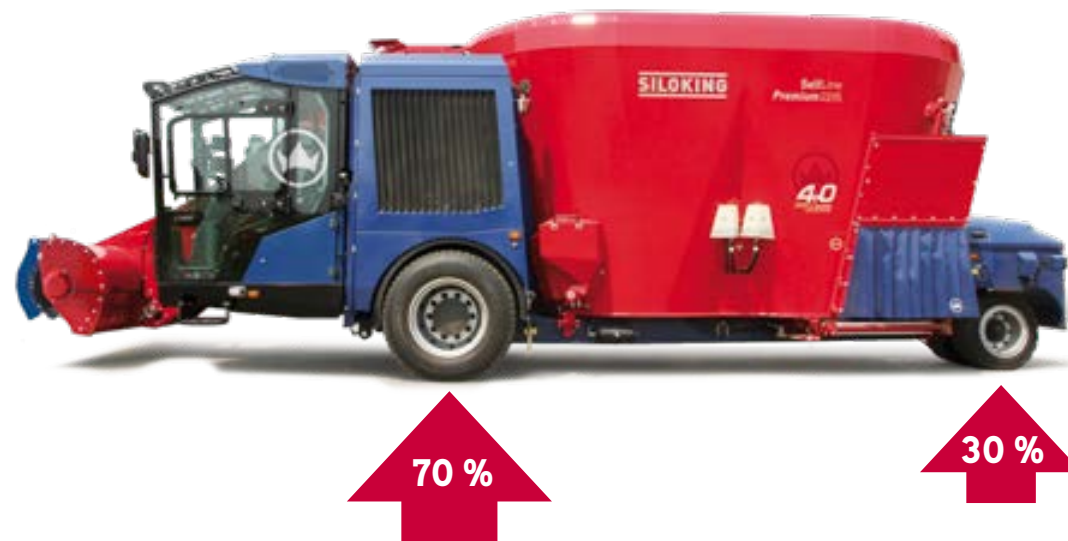
The high manoeuvrability of the SILOKING 3-point chassis allows a comfortable, precise and timesaving operation at the silage clamp.

Intelligent concepts

The chassis of the SILOKING **SelfLine 4.0** benefits from a highly intelligent concept. 70 % of the overall weight – and therefore the main load of the vehicle – are on the front drive axle of the self-propelled. This offers multiple advantages, such as improved traction even if the mixing hopper is empty as well as high stability. The large tyres on the front axle support this load without problems, which has an additionally positive effect on traction.

Comfort for the highest performance

The 25-km/h and 40-km/h versions of the new self-propelled are equipped with air suspension and level control. This allows for comfortable and effective work. A dehumidifier ensures the reliability of the system.



3-point chassis

Its innovative 3-point chassis makes the SILOKING **SelfLine 4.0** incredibly manoeuvrable and quick. The robust square-bar frame is torsion-resistant thanks to its 3-point design and guarantees a long service life as well as allows for exact weighing of feed components. If the feed table is particularly narrow, the feed can also be discharged on both sides at the same time using 2 discharge doors (optional, also as heavy-duty version) without running over the feed.





Ideally suited
even for demanding
conditions when
driving

Comfortable driving even on poor roads

SILOKING has provided the SILOKING **SelfLine** 4.0 Premium 2215-22 with an independent wheel suspension at the rear as standard (optional for other models). In connection with a steering angle of 45° as well as large tyres of size 355/50 R22.5, the newly developed independent wheel suspension ensures consistently smooth running of the high-capacity self-propelled with poor road conditions and over longer distances on and between farms.

Excellent driving characteristics and comfort

The new independent wheel suspension has an electro-hydraulic level control system, in which an optimum vehicle position is achieved regardless of the load, and has hydro-pneumatic suspension, in which the hydraulic cylinders work in combination with a compressed air storage system. The interaction between these two components results in above-average smooth driving characteristics and impressive driving comfort. The overall steering and suspension mechanism is generously dimensioned and the unsprung masses have been reduced, which makes these new machines less prone to wear.

Perfect driving comfort

The SILOKING **SelfLine** 4.0 not only uses its outstanding characteristics in farming operations, but also on the road. The machine is available in 3 speed versions (15 / 25 / 40 km/h). With the 25-km/h and 40-km/h versions for fast road travel, the air suspension at the front and rear as well as the automatic level control system ensure a high level of driving comfort and stability as well as safety even with different loads. The high driving comfort on uneven ground or dirt roads does not only have a positive effect on the driver. As the excellent suspension absorbs any shocks from uneven surfaces, all units of the SILOKING **SelfLine** 4.0 are protected as well.



Precise, low-wear steering

The hydraulic steering unit is an example of precision and safety. Due to it being designed without a steering linkage and wear parts, the maintenance efforts are extremely low even with high-performance use. Additional comfort is provided by the heavy axle version with wide tyres of size 28x12.5-15 with 8-hole rims (standard for **SelfLine** 4.0 Premium and optional for **SelfLine** 4.0 Compact).

Turning radius

System 1000+ 3225-29/32 $r = 8,1 \text{ m}$

System 1000+ 3225-25/27 $r = 7,7 \text{ m}$

Premium 2215-22 $r = 7,4 \text{ m}$

System 500+ 2519-22/25 $r = 7,3 \text{ m}$

System 500+ 2519-19 $r = 7,1 \text{ m}$

Premium 2215-19 $r = 6,5 \text{ m}$

Compact 1612-16 $r = 5,75 \text{ m}$

Premium 2215-15 $r = 4,6 \text{ m}$

Compact 1612-12/13 $r = 4,5 \text{ m}$

r



A first-class workplace

The perfect environment for efficient working

The cab of a self-propelled feed mixer is the driver's daily workroom, often for hours at a time. On professional dairy farms, the self-propelled feed mixer is his daily workplace. 7 days a week, 365 days a year. In summer as well as in winter, as bad as the weather conditions might be.

The focus is on maximum comfort, good ergonomics and safety. For SILOKING knows that high driving and operating comfort not only make the work of the driver a pleasure, they also make it significantly more efficient.





Everything on the 4.0 Self-propelled is in series

- ▶ Seat with air suspension and ergonomically optimized multifunctional armrest
- ▶ Intuitive button and joystick control assignment
- ▶ Three-way adjustable steering column
- ▶ 3 large wipers
- ▶ Low noise level in the cab
- ▶ Large-space cab with excellent all-round visibility

The combination of carefully thought out innovations and improvements with a perfect sense of well-being results in a daily performance that is increased by up to 30 %.

Everything at a glance

The 7-inch display provides the driver with all the required information regarding operating conditions as well as loading and unloading functions. The quick selection button in the armrest allows for a convenient selection of the different modes (driving mode, loading mode, unloading mode, air-conditioning control mode, system mode).

The display is also used as a weighing computer and thereby integrates data handling and vehicle control.



New 7"-display.





Comfort makes efficiency

Functions on demand

The multifunctional armrest mounted on the driver's seat achieves further increases in working efficiency. The button and joystick control assignments are intuitive and thereby extremely efficient. Working processes are easily and quickly programmed and simply started at the push of a button.

This makes it possible to comfortably store two different engine speeds, and to control the hydraulic counter-blades both in manual mode and in interval mode at the push of one button.

Reduced workload at the push of a button

One great example for the manner in which workload can be reduced to a minimum is the comfortable discharge management. Instead of requiring a plethora of manual inputs, a single push of a button is enough to initiate multiple hydraulic functions in an automated manner, such as the "extend discharge conveyor chain", "switch on discharge conveyor chain" and "open discharge door" functions.



A clear view

Ensuring a clear view for the driver of the SILOKING **SelfLine 4.0** was an important development goal. This had a number of beneficial side effects. In this regard, the new cab is equipped with a windscreen at an optimal angle that also prevents dirt from depositing while offering more space inside the cab. The increase in space is accompanied by a similar increase in driver well-being.



Comfortable entry and immediate overview

The wide and wide-opening door as well as the low entry level to the cab provide additional safety and comfort. To ensure that the driver also finds his way in darkness, the cab of the SILOKING **SelfLine 4.0** is provided with interior lighting as standard.



Great all-round and upward visibility

After the driver has taken his seat, he is provided with fantastic all-round visibility thanks to the unique cab design. Thanks to the latter, his view on the silo cutting surface is also improved significantly. A roof window with protective grille ensures good visibility upward. For cleaning purposes, this grille can be lifted without requiring any tools to do so if the window becomes excessively dirty. Speaking of cleaning windows: the effective wipers and water jets of the SILOKING **SelfLine 4.0** restore visibility as quickly as possible.

Excellent visibility, even in the dark

If lighting conditions are poor, the LED lighting strip ensures great visibility at close range. It is integrated into the roof grille and illuminates the main working area of the self-propelled feed mixer in an optimal fashion.

Cab functions that are easy to maintain

The high-performance air conditioning and heating system of the SILOKING **SelfLine 4.0** are housed in the cab roof where they are easily accessible. The filter systems for these two installations are also easily accessed from the ground for maintenance purposes. The electric fuse box is also outside the cab. Located next to the entry door, it can be reached effortlessly and quickly.





Perfect solutions for feed discharge

Flexible discharge and regular feed deposit thanks to adapted technology

A whole range of (optional) SILOKING discharge conveyors is available to adapt feed discharge to any requirements in the barn.

The retractable discharge conveyor chain can work in every position and produces a regular feed discharge. This means optimal adaption to different feed tables.



The discharge conveyor belt at rear left makes it possible to discharge even big feed amounts on a short feed table.



Simultaneous two-sided feed discharge, e. g. with particularly narrow feed tables, is also possible. The narrow steering unit at the rear ensures that even with big feed amounts, the feed is not run over.



(Optional) discharge door at front right.

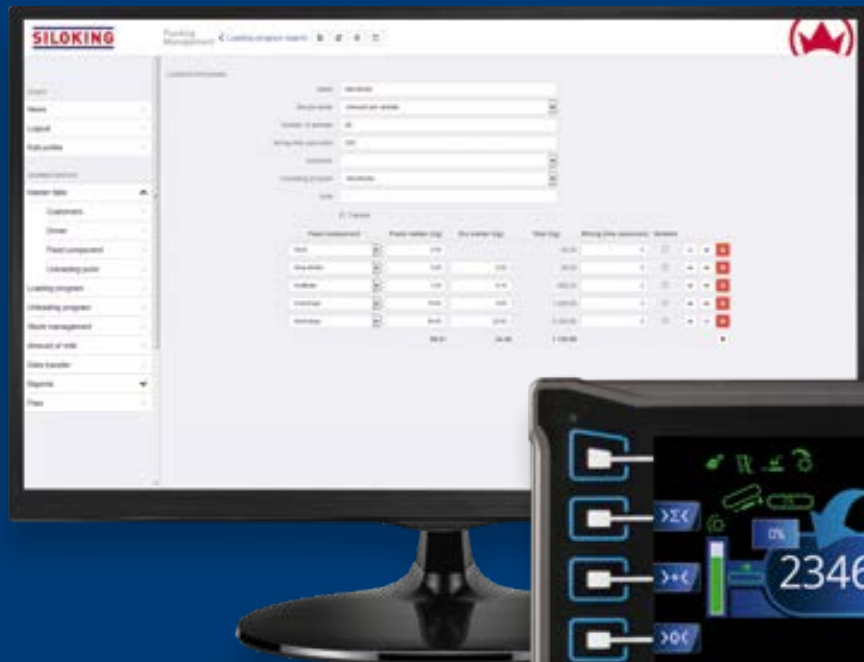


The foldable discharge conveyor belt is used for feed discharge into higher troughs, too.



The discharge conveyors are controlled from the driver's cab by simply pushing a button.





SILOKING Data for SelfLine

- ▶ Integrated into 7"-display
- ▶ Control of hydraulic functions via multifunctional armrest
- ▶ Programmable weighing system can also be used as adding weighing system



Feeding Management Software included!

Keep control even without additional fees.

The best ration planning on the market!



Feeding Management Software

SILOKING offers the Feeding Management Software as a free top service for the SILOKING Data Programmable weighing system.

This makes it possible for every farmer to work in a still more efficient and cost-saving way, regardless of his farm's size.

Planning



- ▶ Easy entry of feed components (also dry matter contents and prices) and various unloading points (animal groups)
- ▶ Easy creation and management of loading and unloading programs incl. adaption of dry matter contents
- ▶ Linkage of loading and unloading programs to a feeding cycle
- ▶ Easy and recipe-specific entry of subsequent mixing time



Feeding



- ▶ Simple and intuitive data export and import via standard USB stick
- ▶ Detailed report indicating all loading and unloading processes
- ▶ Easy archiving of reports in PDF or Excel file format



Control



- ▶ Time filter function for creating period-related reports
- ▶ Presentation of loading precision (nominal/actual comparison)
- ▶ Easy archiving of reports in PDF or Excel file format
- ▶ Period-related analysis of feed consumption



Success



- ▶ Complete documentation and evaluation for dairies and authorities
- ▶ Evaluation of feed costs per kg of milk, feed efficiency and concentrate efficiency

**Keep an eye on costs!
Save money.**



73

SILOKING



For the family farm and individual feeding of the performance groups



SILOKING SelfLine 4.0 Compact 1612

Models with low height with 12 m³, 13 m³ and 16 m³

The optimal machine both for conventional family farms and for large farms with various performance groups, or with narrow and low-height barn entrances. The compact design with the highly manoeuvrable 3-point chassis allows for two-sided discharge without rolling over the feed.

The low models Compact 12, 13 as well as 16 are perfectly suited for low barn passages. They are equipped with the powerful and economical 105 kW (143 hp) Volvo 4-cylinder turbo diesel engine, stage IV. For models Compact 13 and 16, there is an optional Power pack with 129 kW (175 hp) or 160 kW (218 hp).



Test result excellent

SILOKING SelfLine 4.0 Compact 1612 has been evaluated "excellent" in top agrar test 3/2016 in comparison with 4 automatic feeding systems.



Perfect view of the milling head in any working position.



Compact design and two-sided discharge without running over the feed.



Low entry and clearly arranged comfort cab.





High capacity and
considerable loading heights



129 kW (175 hp) Volvo 4-cylinder turbo diesel engine for maximum performance requirements.



FULL TEST
SILOKING SELFLine 4.0
PREMIUM 2215-19
DLG Test Report 6418

SILOKING SelfLine 4.0 Premium 2215

Models with considerable loading height and more capacity with 15 m³, 19 m³ and 22 m³

Due to the high capacity, these models are the ideal solution for farms with larger performance groups. With their long milling head arm, all Premium models can load the feed from heights up to 5 m. The standard drive on these models is a Volvo 4-cylinder turbo diesel engine with 129 kW (175 hp), stage IV (and with 160 kW / 218 hp as option). In addition, the 3-point chassis provides the machine with a minimal turning radius.

For comfortable driving even on poor roads, the machine can be equipped with an independent wheel suspension as an option.



For difficult road conditions, the **SelfLine 4.0 Premium** can be equipped with independent wheel suspension as an option – it is standard for **SelfLine 4.0 Premium 2215-22**.



STRONG - on the road and in
difficult conditions on the farm



SILOKING SelfLine 4.0 System 500+ 2519

The allrounder for farm and road travel with 19 m³, 22 m³ and 25 m³

Dairy farms with several locations, feeding communities and agricultural contractors are all expecting the same things from a self-propelled feed mixer. It both needs to be fast on the road and convince you in confined farmyard spaces.

Fast and extremely manoeuvrable, this modern self-propelled feed mixer impresses in all conditions.



With an overall height of less than 3 metres, even low barn passages are no obstacle. At the same time, loading heights of max. 5.3 metres mean that the **SelfLine 4.0 System 500+ 2519** also features impressive reach.

Thanks to 4-wheel steering, it also copes easily with rough terrain and paved surfaces. The machine features large tyres and is very manoeuvrable, thanks to the two steered axles. It is available in 4 speed versions (20 / 25 / 40 / 50 km/h).

You will find more information in the **SelfLine 4.0 System 500+ / 1000+** brochure.



Developed for farms with
1,000 cows and more





SILOKING SelfLine 4.0 System 1000+ 3225

Highly manoeuvrable XXL self-propelled for large farms, biogas plants and use on several farms with 25 m³, 27 m³, 29 m³ and 32 m³

The SILOKING **SelfLine 4.0** System 1000+ models impress with high manoeuvrability, capacity and performance and have been designed for farms with 1,000 cows and more. Thanks to the 3-axle chassis, the self-propelled feed mixer can be loaded with up to 12 t – and the load on the chassis, the tyres and the driving surfaces is reduced.

In addition, the active steering of the front and rear axles offers an enormous manoeuvrability. The mixing hopper has a capacity of 25 m³ or 27 m³, or rather 29 m³ or 32 m³ and 2 or rather 3 turbo augers. And the XXL self-propelled mixes very quickly and homogeneously.

You will find more information in the **SelfLine 4.0** System 500+ / 1000+ brochure.



The NIR System



Dry matter scanner

Programmable weighing
system DG8000-IC

Precisely controlling the presented feed ration results in high performance

It is in each dairy farmer's interest to know exactly what he is feeding his cows. Is he feeding them the calculated feed amount?

His rations are based on calculating the dry matter content, but this can vary greatly in the silo. Incorrectly calculated feed ration results in 4 major disadvantages: lower feed efficiency, metabolic problems in the cow, fluctuating milk yields and a higher proportion of feed residues that remain unused and must be disposed of.

Everything costs the farmer money. It all adds up, and even for medium-sized herds, this can end up markedly degrading the efficiency of milk production.



Direct accounting in the feeding system

The NIR system is mounted in the milling head of the SILOKING self-propelled. The feed is released from the silage clamp by the milling head and passes through the dry matter scanner. The scanner evaluates the current dry matter content and transmits the data to the calculating unit (Programmable weighing system DG8000-IC). The programmable weighing system calculates the target weight for each feed component compared with the planned ration in real time and shows it on the display. This ensures that the actually loaded ration corresponds exactly to the calculated one.

Accessories



SILOKING Bedding belt

The SILOKING Bedding belt offers the perfect combination for loose and wide feed discharge and large-distance bedding of cubicles with one machine only.

The hydraulic adjustment of the angle and the speed is done via the multifunctional armrest.

SILOKING Hopper cover

For reducing feed losses and dust formation.



Filling from outside is possible via silo towers or conveying augers.



When folded down, the total height is increased by 150 mm only.



Quality without compromise



Quality is the foremost principle at SILOKING

The name of SILOKING stands for highest quality in feed mixing technology around the world. Thousands of farmers and agricultural contractors trust in the excellent quality and reliable functioning of feed mixers as well as mixing and dosing systems from Tittmoning in Bavaria. The principle of utmost quality extends to all business divisions of SILOKING and culminates in machines that convince customers through maximum performance and guarantee a top-rate mixing quality at all times. Modern series production and an active quality consciousness contribute their parts in equal shares.

Quality assurance without “ifs” or “buts”

Quality assurance and service-friendliness go hand in hand at SILOKING. For example, specific colour markings clearly and unambiguously mark those electrical connections and hydraulic connections that belong together. It is also a matter of course at SILOKING that all important screw connections are colour-coded depending on tightening torques. The standardized hydraulic hoses and cable harnesses (with rodent protection) contribute their parts to a high degree of operational safety.



Oil dialysis ensures pure hydraulic oil

After completion of a SILOKING **Self**Line 4.0, its entire hydraulic system is subjected to a 7-hour oil dialysis. This not only ensures that any contaminations are filtered out of the hydraulic oil, hydraulic damage during commissioning is also prevented by 100 %.



Extreme testing of milling head

After that, the milling head undergoes a severe load test for a duration of 90 minutes. By simulating extreme loads, SILOKING can guarantee the operational reliability of its feeding equipment under all possible conditions.



Rigorous testing

Prior to delivery to the customer, every machine is rigorously tested for one and a half days. This includes another check of all electric and hydraulic functions as well as road testing. After such a thorough inspection, there's nothing that stands in the way of your SILOKING **Self**Line 4.0 living a long and equally intense work life.



Top partnership for
maximum success

Nationwide service network

SILOKING operators have access to a nationwide service network offering spare parts, qualified service technicians on site and 24-h long availability for feeding technology is used every day of the year. The SILOKING hotline enables customers to find a competent point of contact around the clock if required. The centralized spare parts warehousing as well as nationwide service network with audited service partners and a high number of parts available on site complete SILOKING's extensive customer care program.

Reliable and competent service partners

SILOKING Service partners get training in feeding technology, they are equipped with appropriate tools and they have failure-critical spare parts in stock. Together with the service partners in the field, the SILOKING service hotline is available for competent technical advice 24/7. A variety of models for warranty extensions provides maximum calculation security and offers an appropriate and efficient model for any level of machine utilization.

Service and spare parts availability around the clock

SILOKING Service partners are available out of regular office hours and they have a well-equipped service vehicle so that they can carry out quick repairs on-site if there is a failure. High parts availability at the service partners in the field and a connection to the SILOKING spare parts warehouse via overnight service guarantee an extensive and quick spare parts supply.

Training for partners and drivers

Employees of the SILOKING Service partners are given training and know-how in the SILOKING Sales & Training Center. User-oriented driver training ensures efficient control and best work results.





Everyone is welcome to learn from our expertise!

With state-of-the-art equipment, the SILOKING Sales & Training Center provides regular training and information for dealers, technicians and farmers. We are always happy to welcome visitors to the Sales & Training Center, by arrangement.

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