SILOKING

SelfLine

System 500+
System 1000+

Feed mixing technology
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.

Reliability and operational reliability – 365 days a year

The complete range of SILOKING Feed mixing technology is produced in series. The series production as well as continuous quality and end controls ensure highest quality standard and efficient production. At SILOKING, the high level of vertical integration also involves comprehensive documentation and organization of spare parts supply.

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.

SILOKING

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 370 employees and latest production methods, agricultural machines “Made in Germany” are developed and manufactured with high quality standards.
SILOKING SelfLine 4.0, the new standard

SILOKING SelfLine 4.0 System 500+ / 1000+ sets 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.

SILOKING SelfLine 4.0 System 500+ 2519
The allrounder for farm and road travel with 19 m³, 22 m³ and 25 m³

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
SILOKING SelfLine 4.0 System 500+ 2519

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

The System 500+ is designed for farms with 500 and more animals, for dairy farms with several locations, feeding communities or agricultural contractors. All of them place high demands on the self-propelled feed mixer.
Perfect driving comfort
The front and rear air suspension and automatic level control guarantee excellent driving comfort as well as driving stability and therefore safety.

Outstanding on-road performance
The machine features large tyres and is very agile, thanks to the two steered axles. Due to 4-wheel steering, it also copes easily with rough terrain and paved surfaces. During road travel, the control switches over to front-wheel steering.

The machine convinces with its powerful 218 hp drive motor offering quick feed loading and a homogeneous mix at the same time. The standard 40-km/h version allows for fast road travel while avoiding any shocks thanks to the excellent air suspension. The machine’s enormous manoeuvrability comes as an advantage especially in confined and angled farm conditions. 4-wheel steering and a maximum turning radius of only 7.3 m make it possible to manoeuvre the self-propelled in an excellent way.
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 name of System 1000+ has arisen from the requirements of farms with 1,000 and more animals. Large farms face the challenge of loading, mixing, transporting and presenting huge amounts of feed – 365 days a year.

The development of the System 1000+ focused on performance and maximum payload. Individual feed components are often stored at different locations so that the feed mixer must travel long distances.
The logistic challenge
Efficient on large farms: with a payload of 12 t and highly efficient discharge technology that realizes feed discharge within 90 seconds.

Highly manoeuvrable 3-axle chassis
The active steering of the front and rear axles offers an enormous manoeuvrability (turning radius of only 7.7 m (System 1000+ 25 / 27) or 8.1 m (System 1000+ 29 / 32)).

Thanks to the 3-axle chassis, the self-propelled feed mixer can be loaded with up to 12 t. According to StVZO German Road Regulations, a payload of up to 9 t is permitted for travel on public roads.

Besides that, the three axles reduce the load on the chassis, the tyres and the driveways, and the active steering of the front and rear axles entails a minimal turning radius of 8.1 m. In addition, the chassis with air suspension ensures maximum driving comfort.
Mixing 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.

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 well.

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.

SILOKING Hopper cover
For reducing feed losses and dust formation.
SILONOX
for highest requirements
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.
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 standard. This turbo flight ensures optimal mixing of smaller ration quantities as well as quick and regular 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 also stands for high stability, even under immense loads.
Loading heights of max. 5.3 metres (System 500+) or 5.5 meters (System 1000+) mean that the machine features impressive reach.
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 lifting cylinders ensure stable guide of the milling head and conveying channel at the same time.

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

Central arrangement of drive unit
Short distances equal low losses. This simple formula was applied to the overarching concept of the drive unit (engine, hydraulics, filter and air filter) of the SILOKING SelfLine 4.0. The central arrangement of the drive unit for a short distance to the hydraulic consumers results in a high degree of efficiency and minimized oil quantities.

A strong heart
Inside the SILOKING SelfLine 4.0 System 500+ / 1000+ beats a strong heart: a powerful Volvo 6-cylinder engine with 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.

System 500+ with 160 kW (218 hp)
System 1000+ with 210 kW (286 hp)
6-cylinder engine with 7.7 litres capacity
extremely high torque at low speed
long service life
reduced wear through low vibration
very low fuel consumption

Reliable power
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.

Maintenance every 1,000 hours only

The engine oil must be replaced only every 1,000 operating hours or once a year. This allowed for the entire maintenance interval of the SILOKING SelfLine 4.0 to be changed to 1,000 hours. 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 also 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 of the SILOKING SelfLine 4.0.

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.
Uncompromising quality and highest efficiency
The hydraulic system of the SILOKING SelfLine 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 SelfLine 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 250 litres of hydraulic oil.

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.
Best cooling performance for highest efficiency

The SILOKING SelfLine 4.0 is equipped with a large single-surface radiator, which ensures highest cooling power and therefore 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.

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 SelfLine 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.
STRONG - on the road and in difficult conditions on the farm
Robust and reliable
The chassis of SILOKING is designed for high logistic demands. Transport of feed on the road over big distances is no problem at all. The chassis convinces even with intensive and extreme demands!
All components are matched in an optimal way in order to achieve the desired performance and efficiency. The System 500+ and 1000+ ranges are designed for lots of operating hours and long distances every day.
With the particularly robust design, SILOKING ensures the required reliable operation – especially for the extreme use in agriculture!

Excellent driving behaviour in any conditions
The models are equipped with a 40-km/h speed version by default. For quick road travel, 50 km/h are available for the System 500+ as an option. Thanks to the wear-resistant drum brakes outside, the rolling resistance and the diesel consumption are reduced while operational reliability is increased.

Heavy-duty axles for highest demands
The powerful heavy-duty axles come from construction and transport industries (e.g. mobile cranes), they reliably maintain perfect road contact even with high speed and full load. When driving on the road completely loaded, the 3-axle chassis of the SelfLine 4.0 System 1000+ convinces in poor road conditions, as well. Thanks to the chassis with air suspension and automatic level control, the machine is extremely reliable also in difficult conditions and provides for smooth running.

Central arrangement of drive unit
The drive units and the hydraulic power packs are in a central position on the front driving axle (System 500+) or on the two front axles (System 1000+). This ensures high traction even if the hopper is empty.

High manoeuvrability
The 4-wheel steering with large steering angles provides the ranges with a turning radius of 7.3 m (System 500+) or 8.1 m (System 1000+) maximum. Along with the air suspension, the large tyres provide for high ground clearance on unlevel ground, too.
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.
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 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.
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
The best ration planning on the market!

Feeding Management Software
SIOLKING offers the Feeding Management Software as a free service for the SIOLKING 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.

Feeding Management Software

- 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
- 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
- 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
- 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.
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 SelfLine 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 SelfLine 4.0 living a long and equally intense work life.
## Technical specifications

### Turning radius

- **System 1000+ 3225-29/32**: \( r = 8.1 \text{ m} \)
- **System 1000+ 3225-25**: \( r = 7.7 \text{ m} \)
- **Premium 2215-22**: \( r = 7.4 \text{ m} \)
- **System 500+ 2519-22**: \( r = 7.3 \text{ m} \)
- **System 500+ 2519-19**: \( r = 7.1 \text{ m} \)

### Technical parameters

<table>
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<tr>
<th>Model</th>
<th>System 500+ 2519-19</th>
<th>System 500+ 2519-22</th>
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<td>J Length (cross conveyor belt)</td>
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<td>Tyres at rear</td>
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### Additional parameters

- **Turbo augers**: 2
- **Auger windings**: 2.5
- **Adjustable XS knives**: 14
- **Turbo auger speed**: 20 / 46 rpm (at engine speed 1,900 rpm / 2,100 rpm)
- **Capacity**: 19 m³
- **Loading height**: 4.8 m
- **Engine (stage IV)**: 160 / 218 Volvo
- **Empty weight of basic machine**: 15.550 kg
- **max. total weight (technically) 25 km/h**: 25.900 kg

*The total weight may vary, based on country-specific regulations for road traffic.*
### Model System 1000+ 3225-25 System 1000+ 3225-27 System 1000+ 3225-29 System 1000+ 3225-32

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<td>5,5</td>
<td>5,5</td>
<td>5,3</td>
<td>5,5</td>
</tr>
<tr>
<td>Engine (stage IV)</td>
<td>kW / hp</td>
<td>210 / 286 Volvo</td>
<td>210 / 286 Volvo</td>
<td>210 / 286 Volvo</td>
<td>210 / 286 Volvo</td>
</tr>
<tr>
<td>Empty weight of basic machine</td>
<td>kg</td>
<td>17.000</td>
<td>17.050</td>
<td>17.700</td>
<td>18.000</td>
</tr>
</tbody>
</table>
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.

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