

SILOKING



StaticLine Feeding



Mixing, dosing and feeding technology

StaticLine Feeding 4.0



Compact 1408
8 m³ - 14 m³



Premium 2514
14 m³ - 25 m³



System 1000+ 4022
22 m³ - 40 m³

Why SILOKING StaticLine Feeding?

Because reliable feeding technology needs quality workmanship down to the last detail – from safe statics to assembly, feed storage, exact feed dosing, intuitive control and integration into complex systems.

With SILOKING **StaticLine Feeding 4.0** we offer solutions to increase productivity and efficiency on your farm. We ensure operational reliability every day, long life of the machine as well as service and maintenance friendliness.

Depending on individual requirements, the hoppers of SILOKING **StaticLine Feeding 4.0** are available with capacities from 8 to 40 m³ with various accessories.

The mixing, dosing and feeding system:

- ▶ Perfect mix results on the basis of exceptional experience
- ▶ Optimal hopper to auger ratio – ensures highest precision in gently mixing different rations
- ▶ Integrated drive – allows for loading from all sides
- ▶ Intelligent and compact drive – for low power consumption
- ▶ SILONOX – guarantees excellent wear protection and highest lifetime
- ▶ High flexibility – due to individual adaption to any requirements
- ▶ Complete solutions with focus on on-site requirements – safe and easy installation

simply | intelligent | feeding

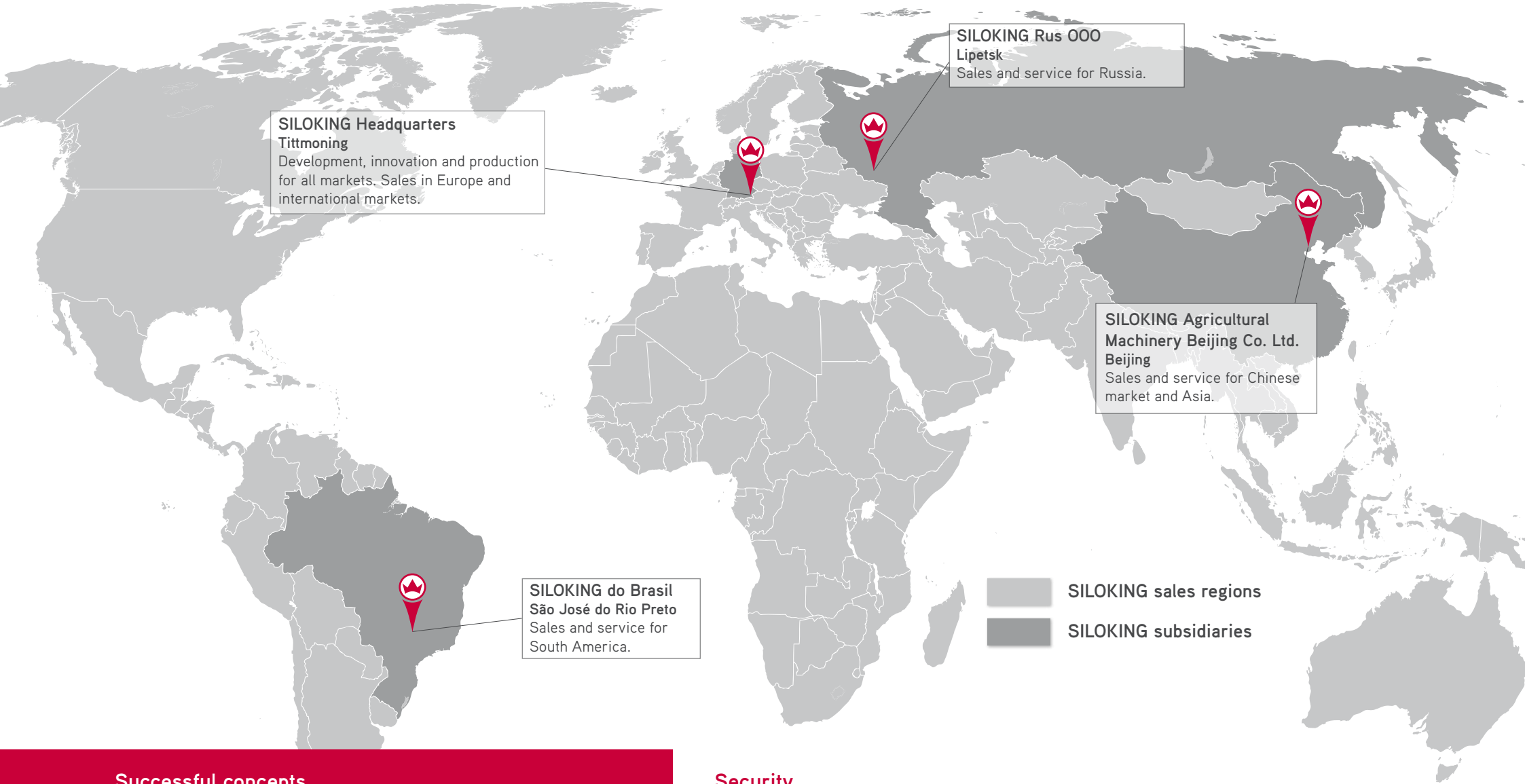
All of SILOKING's considerations refer to "simply | intelligent | feeding" – focusing on the requirements of the cow and the farmer, finding solutions and implementing them.

Preserving the feed structure, mixing long and short as well as dry and moist material precisely and discharging regular and precise rations.

The company

SILOKING Mayer Maschinenbau GmbH produces innovative feed mixing 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 300 employees and latest production methods, agricultural machines "Made in Germany" are developed and manufactured with high quality standards.

The product range includes trailed, self-propelled and electrically driven feed mixers for livestock farms, stationary mixing and dosing systems for Feed Centers and biogas plants, as well as silage extraction and distribution machines.



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.

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 **umfassender Ersatzteilbestand** on site, purchasing a SILOKING is a reliable thing.

Experience

With over 24,000 units in the market, SILOKING has the experience **hat SILOKING große Erfahrung** in manufacturing absolutely reliable, durable and efficient products. Flexible assembly lines allow an up-to-date product mix and a high product output.

Edged hopper –
for higher mixing quality





The right hopper geometry makes it

SILOKING hopper geometry and turbo auger are perfectly matched, thus ensuring short mixing times with optimum protection of the feed structure. The edged hopper shape slows down the feed in its circular movement and supports the vertical mixing action.

Highest lifetime

SILOKING mixing hoppers are always welded inside and outside. This guarantees stability and long-term durability. SILONOX on the wedge-shaped hopper recesses and on the discharge is standard and ensures long-term durability.

Efficient mixing – perfect processing

The inner part of the mixing unit has been designed in a way to ensure complete discharge and avoid clogging even when long-fibered feed components are used.

The combination of the hopper shape with the optimized turbo auger reduces power consumption considerably, while showing its mettle by gentle mixing within short mixing times.



The turbo auger – a SILOKING performance plus

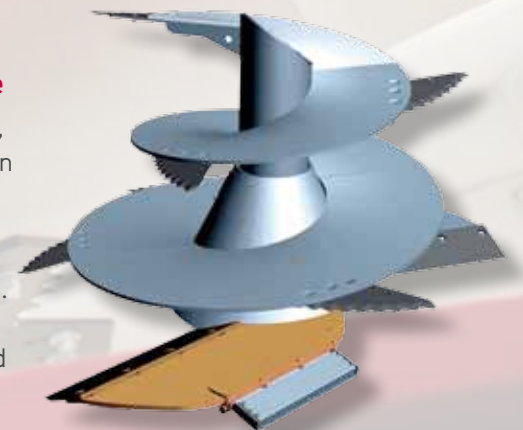
The powerful turbo auger with an additional turbo flight mixes intensively at low auger speed and this way is gentle on the feed structure with short mixing times at the same time. Sharp XS knives cut even long feed components with minimum power requirement. The flat and adjustable scraping bar made of SILONOX collects the mineral feed from the hopper bottom and immediately includes it into the mix, which makes it possible to add fine feed components at the beginning already.

Intelligent control saves power and preserves the feed structure

Each mixing auger is driven by its own motor to allow for individual operation, depending on the desired throughput of feed. This reduces power consumption and increases the working life of the machine.

Fast and safe – mixing and complete discharge

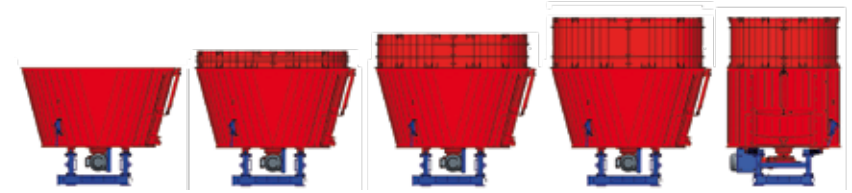
The turbo auger provides for quick and gentle processing of long-fibered feed. The heavy-duty magnet (option) protects the cow against metallic foreign materials. Additionally, the turbo flights of the mixing augers ensure quick and complete emptying of the mixing hopper.



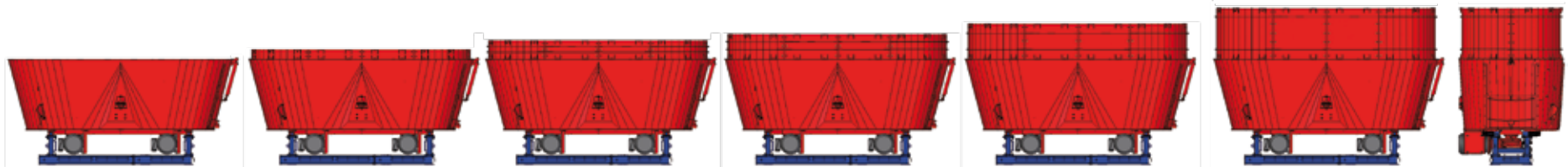
Turbo auger with turbo flight and heavy-duty magnet.

Optimal modification thanks to modularity

A distinctive feature of SILOKING's mixing, dosing and feeding systems is its modularity. The hopper geometry and the auger size are always perfectly adjusted to each other. Therefore, excellent mixing results are achieved even for long-fibered feed. This series production with standard components guarantees reliable availability of spare parts.



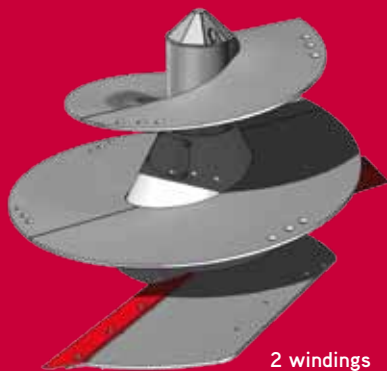
StaticLine Feeding 4.0 Compact 1408



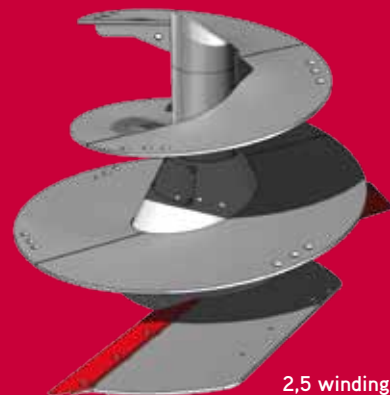
StaticLine Feeding 4.0 Premium 2514



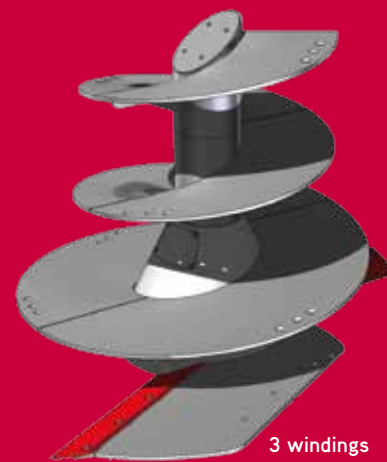
StaticLine Feeding 4.0 System 1000+ 4022 / 4030



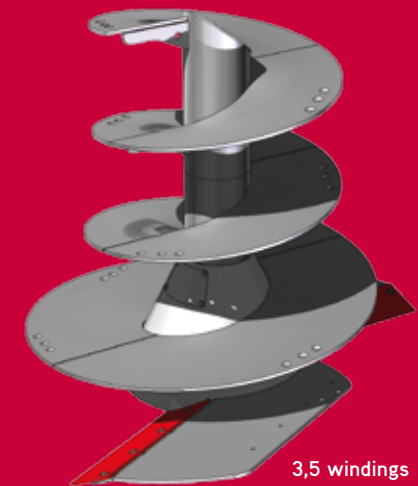
2 windings



2,5 windings



3 windings



3,5 windings

Planetary gearbox – because drive is essential

Every SILOKING planetary gearbox with 4 planets has been designed for maximum performance up to 52,000 Nm.

Compactness for higher profitability and comfort

Motor and planetary gearbox of the mixing auger are interconnected and are located under the mixing hopper. This not only ensures easy filling from all sides – due to the compact design of the drive unit, SILOKING StaticLine Feeding 4.0 can be integrated even at constricted locations.

Best feed structure and precise mixes

Ruminant-friendly mix rations have their own requirements. To fulfill them, the drive has been designed in a way that makes it possible to vary the speed of the turbo auger from gentle feed mixing through cutting to quick and complete unloading.

SILOKING planetary gearbox

The planetary gearbox has been developed exclusively for use in SILOKING feed mixing technology. The gearbox with 4 planets and optimal rear reduction levels has been designed for high performance – even under maximum load.

Electric drive

The mixing augers are provided with individual electric drives. The motors are flanged onto the planetary gearboxes under the mixing hopper. SILOKING recommends you to control the electric motors of the individual mixing augers via frequency converters. This guarantees smooth operation and low power consumption while ensuring power reserves for peak loads. Each auger can be individually controlled, used single or in sequence, depending on demand.

On-board hydraulic system

For use in complex systems, the discharge door can be opened and closed automatically via an on-board hydraulic system as standard.



Planetary gearbox – because drive is essential

Key features at a glance:

- ▶ max. torque 52,000 Nm and reinforced bevel gear system results in high durability and long working life
- ▶ always perfect auger speed maintains feed structure
- ▶ 100 % oil – 100 % operational reliability and performance
- ▶ solid finish ensures breaking up round bales
- ▶ measurable savings and reduced costs, 365 days a year



electric drive



on-board hydraulic system



The bearing part for weighing and mixing system

A torsion-resistant frame guarantees precise weighing

The complete installation is mounted onto one torsion-resistant square-bar frame. The SILOKING plug-and-play solution offers simple, quick and safe installation on-site.

Best processing for long life

The supply lines, such as the cables of the weighing system or the hydraulic hoses run tidily and safely in cable ducts: a SILOKING quality feature for long life and consistently reliable operation of the machine.

Acid-resistant load cells

At SILOKING, the load cells are perfectly fitted into the frame and in a protected position under the hopper bottom plate. They are acid-resistant for long life.

A basis for precision feeding

The load cells ensure pin-point weighing.

- ▶ load cells right above the struts in the frame in special load cell casings
 - no torsions
 - separated from the frame
- ▶ pin-point weight transfer
 - exact weighing
- ▶ additional protective cover
 - against dirt and rodents
 - operational reliability in the long run





Control cabinet – installation-ready

The electric equipment of the installation, such as frequency converter and electric fuse protection etc., is placed inside a control cabinet. SILOKING optionally offers this control cabinet for the operation of the mixing unit. It is adapted to the climate of the respective location at the factory already. To integrate the **StaticLine** into complex installations, weighing equipment and interfaces to adapt to external control systems are also available from SILOKING.

Perfect speed

The frequency converters vary the speed of the turbo augers for a powerful start under load. They ensure the perfect speed during the mixing and unloading processes and during automatic residual emptying.



SILOKING Adding weighing system

The adding weighing system (standard) indicates the current weight during loading and unloading.



SILOKING Programmable weighing system

It is optionally available instead of the adding weighing system for **StaticLine** 4.0 models. Memory of 99 rations with 24 components each as well as memory for unloading programs included.



SILOKING Data

Radio-controlled weighing system incl. SILOKING Feeding Management

Available for **StaticLine** 4.0 models as an option instead of adding weighing system.

- ▶ programmable weighing system as standard
- ▶ including SILOKING Feeding Management Software (free of charge)
- ▶ easy creation of feed components, groups of animals, unloading points and comparison of nominal/actual values
- ▶ comfortable loading as Data terminal is always in the driver's field of view
- ▶ with control of hydraulic functions as an option

SILONOX for long life

Feeding technology made of an ultra-durable stainless steel alloy.

SILONOX as standard – for surfaces with high demands

The wedge-shaped recesses at the centre of the mixing hopper that support the material flow between the two mixing augers are provided with SILONOX.

SILONOX plates on the sides of the discharge door opening are mounted in a way as to end flush with the discharge door on the hopper inside.

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.

- ▶ no interfering edge inside the mixing hopper
 - less power requirement (up to 6 %)
 - better mixing characteristics
- ▶ L-door guide
 - solid even for extreme strain
 - fail-safe: no jamming while closing
- ▶ wear protection inside the hopper means longer lifetime

The following options are available:
SILONOX Hopper wall lining, plate thickness 3 mm
SILONOX Auger flight wear protection

- ▶ less wear at crucial points
- ▶ long lifetime of the entire machine
- ▶ permanently perfect function





standard: SILONOX
L-door guide

Standard:
SILONOX cutting edge



option: SILONOX
auger flight wear
protection

standard:
SILONOX
wedge-shaped recesses

SILONOX – material description

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

SILONOX is highly resistant to abrasion, acid and wear. It also shows excellent resistance to mechanical wear resulting from the mixing process. Strong welds ensure a permanently tight and secure join – no acid can penetrate. The extremely robust SILONOX material is also ideal for retrofitting as a secondary protective layer. It can be processed using standard MAG welding procedures.

Especially with applications with prolonged retention of the silage in the mixing hopper, there is the option to customize the hopper walls with SILONOX lining.

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

Wear-resistant steel

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

Additional equipment



Transfer conveyor with chain.



Transfer conveyor with rubber belt.

Variable position of the transfer conveyor

The new heavy-duty transfer conveyor (option) of the stationary mixing and dosing system provides additional operational comfort and efficiency. As SILOKING **StaticLine Feeding 4.0** is accessible from all sides, the transfer conveyor can be placed at the specific position of the discharge door. The transfer conveyor belt – available in various lengths – is driven by a separate electric drive. This results in quiet running and low-wear operation.

Other applications for SILOKING StaticLine

Working under different climatic conditions – from -50 °C in Russia and Sweden to +40 °C in Israel – SILOKING StaticLine Feeding 4.0 products set a high quality and technological standard. About our presence in more than 50 countries, we know the specific regional requirements in all major markets.

Advantages of SILOKING – international experience and perfect logistics

Technologically innovative, the customer always in view and internationally orientated: The success of SILOKING is not an accident but the result of hard work and entrepreneurial activities. This provides the successful establishment of branch offices in China, Russia and Brazil, as well as international sales success.

The successful concept of stationary mixing and dosing systems has a good reputation all over the world and supports professional farms to improve their economy and efficiency.



► High-performance feeding combination with StaticLine Feeding 4.0

The optimal solution for use in Feed Centers: prepare a homogeneous mixed ration with **StaticLine Feeding 4.0**, transport and discharge with SDT 30.

Quick transfer of the ration from the stationary mixing hopper to the SDT 30 is ensured via the SILOKING Transfer conveyor.

The SDT 30 has a hopper capacity of 30 m³ and a maximum payload of 17 tonnes.



► Waste management facilities and Feed Centers

For high throughput and requirements in industrial Feed Centers and waste management facilities, a powerful transfer conveyor is available. This transfer conveyor, optionally made of SILONOX, with a conveyor width of 1,200 mm allows for quickest possible unloading.



► Composting plant

The SILOKING Transfer conveyor can also be used in other areas, such as the composting plant shown here.

► Industrial substrate processing

► Industrial feed production

Exact planning, easy installation and quick service make the difference

SILOKING Service and spare parts

- ▶ 24-h availability:
For urgent matters out of office hours and at the weekend please contact one of our service technicians on emergency number +49 700 74565464
- ▶ Nationwide and quick service with audited service partners
- ▶ High parts availability at the service partners in the field and at the SILOKING central warehouse



Modular design for easy, quick and safe installation!



Exact planning

SILOKING specialists support and advise you in planning on site.



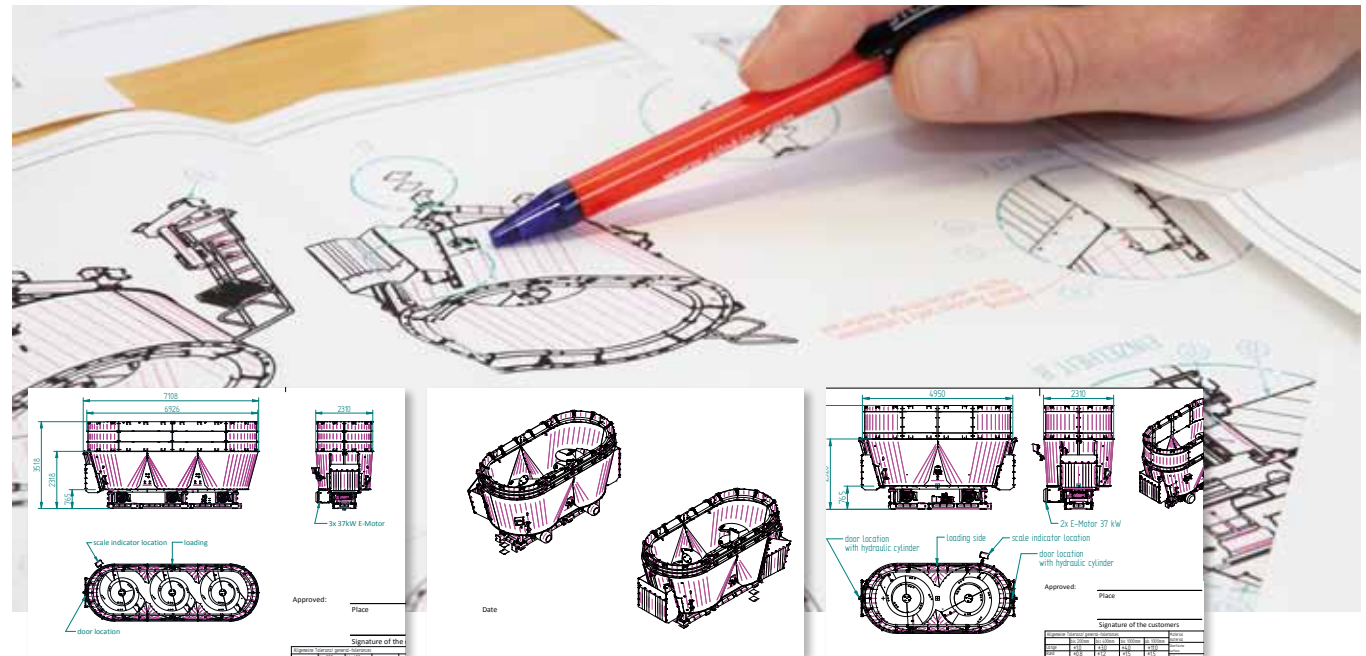
Modular design

The modular design enables easy assembly on-site.



Easy installation

The frame and the mixing hopper are largely pre-assembled at the factory, ensuring rapid on-site installation.

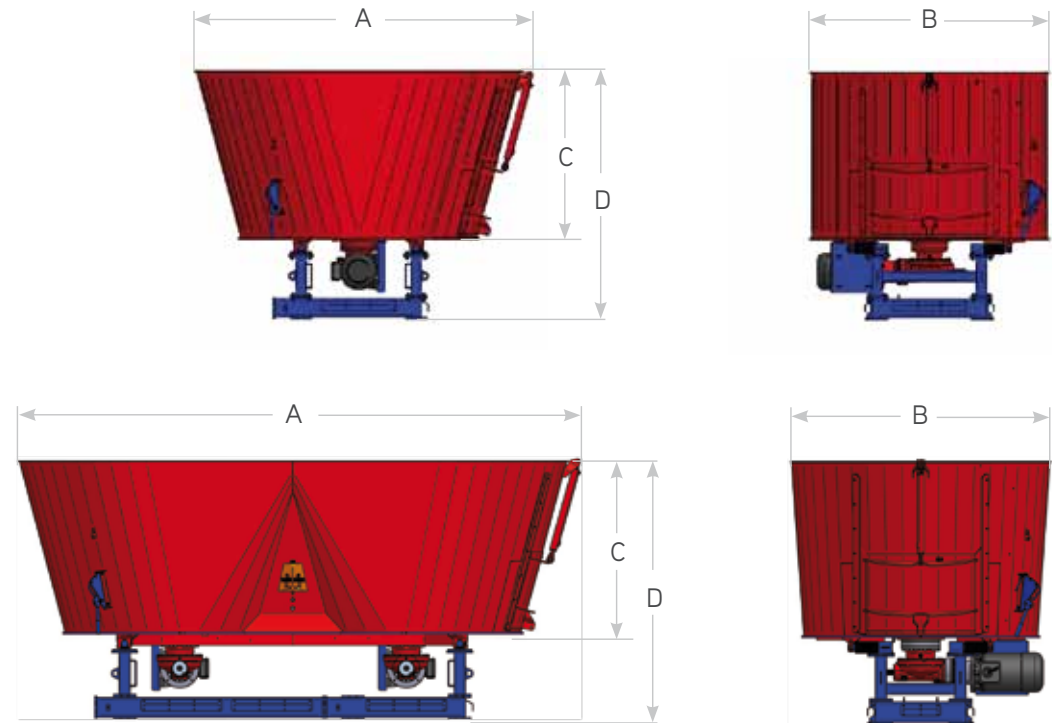


The design and the equipment of SILOKING Mixer and dosing systems are adapted to the situation and the requirements on site. The professional service includes exact planning, detailed drawings and complete documentation, taking also into account any building specifications and regulations. Installation on site is very easy with the simple design and the pre-assembled components.

Each installation is exactly planned, drawn and adapted to the complete installation before being produced.



Technical Specifications



Model		Compact 1408-8	Compact 1408-10	Compact 1408-12	Compact 1408-14	Premium 2514-14	Premium 2514-16	Premium 2514-18	Premium 2514-20	Premium 2514-22	Premium 2514-25
A	Length	mm	3.240	3.240	3.240	3.240	5.070	5.070	5.070	5.070	5.070
B	Width	mm	2.300	2.300	2.300	2.300	2.320	2.320	2.320	2.320	2.320
C	Hopper height	mm	1.605	1.935	2.265	2.595	1.555	1.745	1.945	2.135	2.335
D	Total height	mm	2.370	2.700	3.030	3.360	2.320	2.510	2.710	2.900	3.100
	Turbo augers		1	1	1	1	2	2	2	2	2
	Auger windings		2	2,5	3	3,5	2	2,5	3	3,5	3,5
	Adjustable XS knives		6	7	8	9	12	14	16	16	18
	Turbo auger speed (mixing / residual emptying)	rpm	18 / 38	18 / 38	18 / 38	18 / 38	18 / 38	18 / 38	18 / 38	18 / 38	18 / 38
	Capacity	m ³	8	10	12	14	14	16	18	20	22
	Required motor performance	kW	1 x 22	1 x 22	1 x 30	1 x 30	2 x 22	2 x 22	2 x 22	2 x 30	2 x 30
	Empty weight	kg	3.050	3.200	3.400	3.550	5.500	5.650	5.800	6.000	6.250
	Payload	kg	3.200	4.000	4.800	5.600	5.600	6.400	7.200	8.000	10.000



Model		System 1000+ 4022-22	System 1000+ 4022-25	System 1000+ 4022-30	System 1000+ 4022-35	System 1000+ 4022-40	System 1000+ 4030-30	System 1000+ 4030-35	System 1000+ 4030-40	
A Length	mm	7.110	7.110	7.110	7.110	7.110	7.970	7.970	7.970	
B Width	mm	2.320	2.320	2.320	2.320	2.320	2.550	2.550	2.550	
C Hopper height	mm	1.555	1.755	2.085	2.415	2.745	2.485	2.635	2.785	
D Total height	mm	2.320	2.520	2.850	3.180	3.510	3.250	3.400	3.550	
	Turbo augers	3	3	3	3	3	3	3	3	
	Auger windings	2	2,5	3	3	3,5	3,5	3,5	3,5	
	Adjustable XS knives	18	21	24	24	27	27	27	27	
	Turbo auger speed (mixing / residual emptying)	rpm	18 / 38	18 / 38	18 / 38	18 / 38	18 / 38	18 / 38	18 / 38	
	Capacity	m ³	22	25	30	35	40	30	35	40
	Required motor performance	kW	3 x 22	3 x 22	3 x 30	3 x 30	3 x 37	1 x 90	1 x 90	1 x 110
	Empty weight	kg	8.650	8.980	9.450	9.880	10.250	9.100	9.350	9.700
	Payload	kg	8.800	10.000	12.000	14.000	16.000	12.000	14.000	16.000



Everyone is welcome to learn from our expertise!

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

SILOKING Service & Training Center

Salzburger Straße 1 | 84529 Tittmoning - Kirchheim | Germany
Phone +49 8683 8984-0 | Fax +49 8683 8984-55
E-Mail mayer@siloking.com

SILOKING Mayer Maschinenbau GmbH

Kehlsteinstraße 4 | 84529 Tittmoning | Germany
Phone +49 8683 8984-0 | Fax +49 8683 8984-55
E-Mail mayer@siloking.com

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