

# SILOKING



# 100% electric eTruck eSilokamm





## 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.

## 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.

## 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 420 employees and latest production methods, agricultural machines "Made in Germany" are developed and manufactured with high quality standards.





# Living the future now

Future-oriented feeding with innovative e.0 technology.



## Contents



### **TruckLine e.0** Page 8 - 19

100 % electric self-propelled feed mixers, external loading, 8 - 14 m<sup>3</sup>



### **Silo griff e.0** Page 20 - 27

100 % electric self-propelled silage collection and distribution machines, self-loading, 3.6 - 4.2 m<sup>3</sup>





# TruckLine e.0



# Silo griff e.0



**eTruck 1408-8**

8 m<sup>3</sup>



**eTruck 1408-10**

10 m<sup>3</sup>



**eTruck 1408-14**

14 m<sup>3</sup>



**eSilokamm**

3.6 m<sup>3</sup> - 4.2 m<sup>3</sup>

## eTruck 1408

Innovative e.0 technology with 100 % electric drive for traction and mixing, combined with tried and tested SILOKING Components.

The eTruck is a self-propelled feed mixer that is filled via a loading vehicle. It is used for mixing, transporting and discharging feed. Easy and intuitive use as well as minimal maintenance effort and costs make the machine a simple thing.

### The solution for future-oriented farms

- ▶ to replace the tractor with a trailed feed mixer
- ▶ with narrow barns and low-height constructions
- ▶ with existing loading technology

## eSilokamm

The Silo griff self-propelled now comes with a new technology with 100 % electric drive for traction. The eSilokamm is a self-propelled silage collection and distribution machine with 100 % electric drive. All work processes – from feed collection in the silo through the transport down to the distribution in the barn – are comfortably controlled “from one seat”.

### The solution for innovative farms

- ▶ without any existing loading technology
- ▶ with narrow barns and low-height constructions
- ▶ for emission-free and noiseless work



## e.0 – a concept for the future

### **100 % electric**

Power consumption of 3 kW/h per tonne of TMR  
(eTruck)

### **100 % silent**

For good neighbourhood

### **100 % comfortable**

Simple use of your own electricity

### **100 % planning is possible**

Feeding at the same time every day

### **100 % emission-free**

No exhaust gases for animals & humans

### **100 % reliable**

Proven components from applications in electronic  
industry and tried & tested SILOKING Mixing technology

# Truckline e.0

100 % electric self-propelled feed mixers from 8 m<sup>3</sup> to 14 m<sup>3</sup>

6  
SILOKING  
e.0







**SILOKING**  
TruckLine  
eTruck 1408

100% electric

100%  
electric







SILOKING  
TruckLine  
eTruck 140B





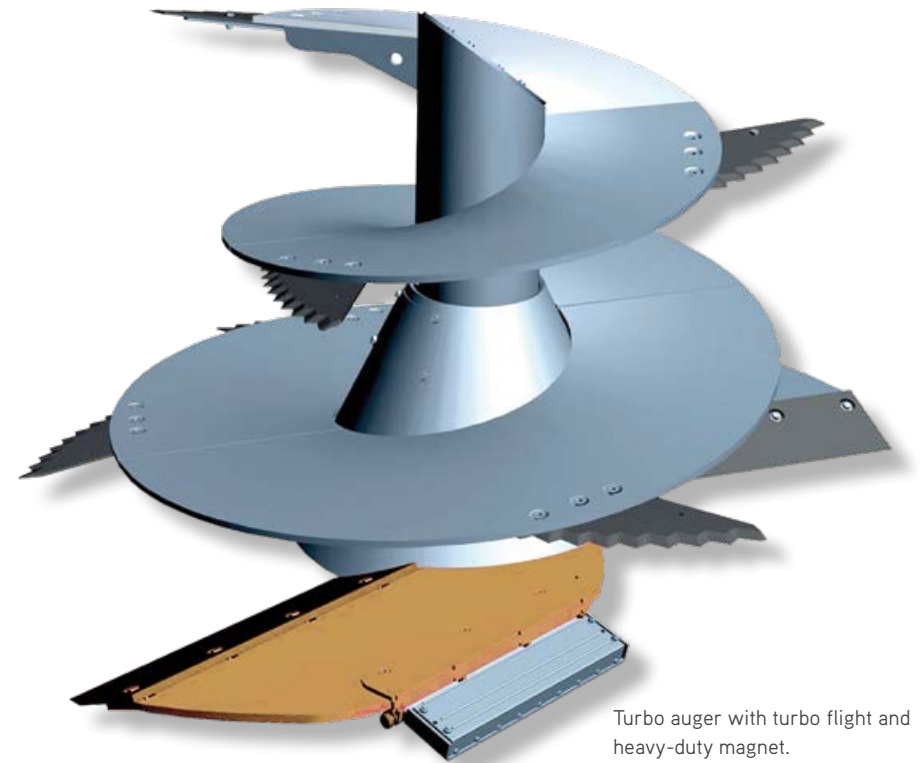
# Proven SILOKING Mixing unit

## 100 % homogeneous mix

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 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 electricity costs as a constant “stirring” of materials can be avoided. A straw ring is mounted as standard.



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.





100 % electric

**Electric drive for traction and mixing  
with battery capacity 80 V**

- ▶ 18 kW drive for traction
- ▶ 15 kW for mixing  
(auger speeds of 17, 33 and 50 rpm)



Partner rather than supplier

**JUNGHEINRICH**  
Machines. Ideas. Solutions.

Proven from more than 100,000 vehicles produced per year.



### A strong drive unit with an enormous potential

The 100 % electric drive of traction and mixing is ensured via a powerful battery. A strong 15 kW mixing drive guarantees breaking up of round bales, homogeneous mixing as well as quick emptying. The traction drive is integrated into the front axle and equipped with a powerful 18 kW motor so that slopes can be mastered without any problems.

The infinitely variable speed control allows for a driving speed up to 20 km/h (2 speed ranges).

### Robust batteries for a strong performance

The lead-acid battery can deliver its performance at temperatures down to - 26 °C: it has been designed for at least 5 mixes per charging cycle, depending on the battery version and the feed characteristics. The batteries also charge while rolling out.

The low-maintenance lead-acid batteries are a good compromise of performance, weight and efficiency and have been tried and tested in practical use lots of times.



465 Ah for at least 3 mixes\*,  
for eTruck 8 and 10.



620 Ah for at least 5 mixes\*,  
for eTruck 8 and 10.



775 Ah for at least 5 mixes\*,  
for eTruck 14.

\* Average values based on eTruck customers' experience.





Electrifying driving comfort





### Intelligent concepts

The chassis of the eTruck convinces as the main weight with the integrated heavy lead-acid battery of 1.2 t (465 Ah) is on the drive axle at the front. This entails several advantages, such as good traction even if the mixing hopper is empty as well as high stability. The big wheels (355/50 R22.5) on the front axle bear the load without any problems which additionally enhances traction, especially in winter.

The machine stands out with its ground clearance of 0.23 m and can master slopes up to 24 % with a load of 3.5 t without any problems.

The infinitely variable speed control allows for a driving speed up to 20 km/h (2 speed ranges).

### 3-point chassis

With its 3-point chassis based on the concept of the SILOKING **SelfLine** proven over 2,000 times, the SILOKING eTruck is highly manoeuvrable and compact. Thanks to its 3-point design, the robust square-bar frame is torsion-resistant and ensures long life and exact weighing of feed components.

For particularly narrow feed tables, two-sided feed discharge is possible – guaranteed without rolling over the feed.

### Compact and manoeuvrable

The compact dimensions of the machine are ideal for farms with narrow barns and low-height constructions. Existing farm loaders with limited lifting height can also be used for filling the mixing hopper.

The small turning radius with a maximum steering angle of 45 ° provides the machine with excellent manoeuvrability.





Intuitive maintenance and charging



## Feeding can be planned!



### Charging in your “free” time

The fact that planning is possible 100 % plays off its advantage here. As feeding is always done at fixed times, the machine can be connected to the electricity outside feeding times. Charging is possible via a simple connector (CEE 16 A / 400 V high voltage current) at any place.

Simply open the flap and connect the machine with the charger. Just add a little bit of distilled water and maintenance is finished.



### Smooth hydraulics

The hydraulic oil must be changed only every 1,000 operating hours or once a year. For the steering unit, the discharge door and other optional functions, 12 l of oil are required per oil change. The mixing gearbox requires 17 l and the axles 7 l each per oil change. And thanks to the use of standard oils, maintenance costs are further reduced.



# Comfort makes efficiency





### A clear view and easy use 365 days a year

The clearly arranged and spacious driver's cab offers excellent all-round visibility. The displays in the driver's field of vision offer information on the machine functions, the weighing system and rear view while reversing.

Loading of the machine is carried out via the radio-controlled weighing system SILOKING Data. Weighing data is easily transferred via the radio network to the terminal in the loading vehicle and is therefore always in the driver's view.

### Emissions and noise are taboo

The use of the "silent" eTruck is optimal within and at the edge of villages, as neighbours or guests are not disturbed by the noise of a combustion engine.



## Feeding Management Software included!

Keep control even without additional fees.



## SILOKING Data for TruckLine

- ▶ Data terminal as standard
- ▶ Control of hydraulic functions via multifunctional armrest
- ▶ 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





# Everything at a glance



## Efficiency

- ▶ One machine for mixing, transporting and presenting feed
- ▶ Low operational costs (no diesel consumption, possibility to use renewable energies)
- ▶ Repeated feed presentation is easy to realize
- ▶ Energy storage when using renewable energies
- ▶ Compact and highly manoeuvrable machine also for old buildings, farms with confined conditions and new barns



## Security

- ▶ Operational reliability thanks to proven components from applications in electronic industry and tried & tested SILOKING Mixing technology
- ▶ Easy maintenance, as 80 V DC voltage battery
- ▶ Fulfilling German road regulations (StVZO)
- ▶ Breaking up of round bales and various feed components without any problems



## Innovation

- ▶ 100 % electric drive for traction and mixing through wireless battery operation
- ▶ Precise and comfortable loading with SILOKING Data
- ▶ Clean, zero-emission, noiseless



## Social

- ▶ Energy-saving and environmentally friendly
- ▶ User-friendly and well-arranged driver's cab
- ▶ 100 % homogeneous mix (optimal ratio of mixing hopper to mixing auger)



## Additional equipment

- ▶ Additional discharge door
- ▶ Feed pusher
- ▶ Mineral feed filling funnel
- ▶ Hydraulic counter-blades
- ▶ Heavy-duty magnet on the turbo auger
- ▶ Lighting
- ▶ Terminal for SILOKING Data
- ▶ Heavy-duty batteries
- ▶ Comfort driver's seat
- ▶ Discharge conveyor

Lighting (optional).



Mineral feed filling funnel (optional).



Additional discharge door (optional).



## Technical specifications



Model			eTruck 1408-8	eTruck 1408-10	eTruck 1408-14
A	Length	mm	5.980	5.980	7.900
B	Width	mm	2.230	2.230	2.420
C	Height	mm	2.250	2.600	2.380
	Mixing drive		electric	electric	electric
	Traction drive		electric	electric	electric
	Outer width of tyres 355/50 R22.5	mm	1.940	1.940	1.940
	Outer turning radius	mm	5.500	5.500	7.900
	Turbo augers		1	1	2
	Turbo auger speed	rpm	17 / 33 / 50	17 / 33 / 50	17 / 33 / 50
	Auger windings		1,75	2,25	2
	Adjustable XS knives		5	6	10

Straw ring (standard).



Easy control via multifunctional armrest.



Feed pusher (optional).





# Silokamm e.0

100 % electric self-propelled silage collection and  
distribution machines from 3.6 m<sup>3</sup> to 4.2 m<sup>3</sup>







SILOKING







Reliable power





### Drive – 100 % electric

The drive of the eSilokamm's traction and hydraulic units is 100 % electric. A battery capacity of 48 V, 465 Ah is standard.

The infinitely variable speed control is carried out via the driving pedal. Two speed ranges, i. e. 0 to 10 km/h and 0 to 14 km/h are possible, which saves time when travelling between the silo and the barn.

### Battery tried and tested several 1,000 times

The eSilokamm is designed for two hours of use per charging cycle. The farmer can use his own low-cost electricity gained from renewable energy sources for charging the battery.

The battery tried and tested several 1,000 times by Jungheinrich, our exclusive partner, is characterized by a very long service life, along with a sensibly reduced maintenance effort, as compared with conventional technology.



### Charging & maintaining

The daily tasks are filling up distilled water and charging electricity. Easy and quick charging between the feeding times makes it possible to use your own electricity. In addition, the battery can be used as an attractive storage medium for electricity that is produced during the day and then consumed.

### Easy feed collection and distribution

With the telescopic arm and the height-adjustable chassis, the eSilokamm can collect the feed even from high heights. The machine is highly manoeuvrable and works very quickly thanks to its traction unit with articulated steering.

Once arrived in the barn, the feed can be discharged by pushing a button via a dosing roller on the discharge side and the hydraulic side door.

The eSilokamm is a very robust construction. Parts prone to wear, such as the intake bottom plates and the wear strips of the floor conveyor, are made of SILONOX and the tines mounted are made of HARDOX. This guarantees long life.



Maximum comfort for animals and humans



**SILOKING**  
eSilokamm 4200





All the work can be carried out comfortably and efficiently from one seat in the standard cab offering excellent all-round visibility and an intuitive multifunctional joystick.

### The perfect environment for efficient working

The closed driver's cab with excellent all-round visibility and an intuitive multifunctional joystick offers the perfect working environment. All hydraulic functions are comfortably controlled by one hand via the ergonomic joystick with intuitive key assignment. A multifunctional display right in the driver's field of vision indicates all machine functions and is easy to use. Three LED working lights illuminating the complete working area in an optimal way provide additional safety.

### Emissions and noise are taboo

The use of the "silent" eSilokamm is optimal within and at the edge of villages, as neighbours or guests are not disturbed by the noise of a combustion engine.

The emission-free and silent machine benefits animals and farmers, especially in narrow and low-height barns. Noiseless feeding reduces the stress of the cows and therefore increases their well-being.



# Everything at a glance



## Efficiency

- ▶ 1 man, 1 machine
- ▶ Low operational costs (no diesel consumption, possibility to use your own electricity)
- ▶ Energy storage when using renewable energies
- ▶ Compact and highly manoeuvrable machine also for old buildings, farms with confined conditions and new barns



## Security

- ▶ Operational reliability thanks to proven components from applications in electronic industry and tried & tested SILOKING Feeding technology
- ▶ Easy charging between feeding times



## Innovation

- ▶ 100 % electric drive through wireless battery operation
- ▶ Ergonomic multifunctional joystick



## Social

- ▶ Energy-saving and environmentally friendly
- ▶ User-friendly and well-arranged driver's cab
- ▶ Clean, zero-emission, noiseless



## Additional equipment

- ▶ Hopper for concentrates
- ▶ Comfort driver's seat
- ▶ Lighting
- ▶ Tyres at rear 31x15.5-15
- ▶ Colour camera system incl. 2 cameras

Easy charging.



Lighting.



Hopper for concentrates (optional).





## Technical specifications



Model		EA 3600	DA 3600	EA 4200	DA 4200
A	Length	mm	5.300	5.300	5.300
B	Width	mm	2.100	2.250	2.300
C	Height	mm	2.500	2.500	2.500
	Tyres at rear		10.0/75-15.3	10.0/75-15.3	10.0/75-15.3
	max. loading height	m	3,5	3,5	3,5
	Capacity	m³	3,6	4,2	4,2
	Empty weight	kg	4.000	4.100	4.200
	Traction drive performance	kW	6,9	6,9	6,9
	Hydraulic drive performance	kW	11,5	11,5	11,5
* EA: one-sided discharge, DA: two-sided discharge					

360° panoramic view.



Comfort driver's seat (optional).



Ideal for narrow and low-height barn entrances.







## 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.

### SILOKING Sales & Training Center

Salzburger Straße 1 | 84529 Tittmoning - Kirchheim | Germany

Phone +49 8683 8984-0 | Fax +49 8683 8984-55

E-Mail [mayer@siloking.com](mailto: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](mailto:mayer@siloking.com)

Your SILOKING Partner

**SILOKING** simply  
intelligent  
feeding  
[www.siloking.com](http://www.siloking.com)

Illustrations may include special equipment, subject to errors and modifications.