TRIOLIET
FEEDING TECHNOLOGY

SOLOMIX STATIONARY

Stationary mixers for silage

Trioliet. Invents for you.

"THE WORLD'S LARGEST RANGE OF FEEDING TECHNOLOGY"

SPECIALIST IN FEEDING TECHNOLOGY

Every day, your cows receive a balanced ration in order to stay healthy and perform at their best. It is therefore important to focus on good mixing quality and efficient feed management. Accurate feeding is an important but time-consuming task on the farm. Trioliet helps you optimize the feeding process in a way that suits your farm.

Trioliet has the most extensive range of mixer feeders, feeding robots, self-propelled mixer feeders, silage cutters and stationary mixers. Our stationary feed mixers come in various types and sizes. The smallest mixer has a capacity of 250 ft³ (7 m³) and the largest has a capacity of 1840 ft³ (52 m³), so there is always one that suits you.

Do you want efficient, fast, fuel-saving and environmentally friendly feeding? If so, the Solomix stationary feeding system is right for you. The Solomix stationary is an electrically driven mixer in a fixed location that mixes the rations and then discharges the mix via a discharge door, feed conveyor belt or chain conveyor to a mixer, delivery truck, feeding robot or feeding belt.

One of the advantages of stationary mixing is that the ration does not have to be served in one go; you can distribute it over several feed turns. A subsequent ration can also be premixed during discharge with the delivery truck, mixer feeder or other discharge vehicle. This not only saves time, but also increases the capacity of the mixer. In addition, a stationary mixer saves fuel and, by using electric motors, it is more environmentally friendly than feeding with a towed mixer feeder.

SUSTAINABLE

The Solomix stationary feeding systems can be used in combination with sustainable energy sources, such as solar panels, wind turbines or biogas systems. As a result, the systems are often eligible for subsidy programs. Ask your advisor about this.

The stationary mixer feeder can be used as an automated feeding system, with or without a feeding robot. You have to ensure only that the mixing tub is filled and the rest is automatic.

THE SOLOMIX STATIONARY FEEDING SYSTEM CONSISTS OF

1. Mixing tub with 1, 2 or 3 vertical augers
2. Electric motor
3. Control box
4. AC drive
5. Weighing system
6. Hydraulic set

OPTIONAL

- Cooling system
- Feed management system
- Chain conveyor(s)
- Control of e.g. concentrate silos, water or other liquids
- Remote control
- Manual or automatic control

FOR FARMS WITH 25 TO 50,000 CATTLE

The Solomix stationary mixer feeder comes in various sizes and with various discharge options. The Solomix 1 STAT is available with a capacity of 250 to 490 ft^3 (7 to 14 m^3). In addition, there is the Solomix 2 STAT with 2 augers and a capacity of 420 to 990 ft^3 (12 to 28 m^3). For farms processing very large quantities of feed, there is the Heavy Duty Range with 2 or 3 augers and a capacity of 1130 to 1840 ft^3 (32 to 52 m^3). The Heavy Duty range is built with a heavy-duty drive train and more wear-resistant materials to ensure even longer service life.

Solomix 1 STAT

Solomix 2 STAT


Solomix 3 STAT

SOLOMIX 1 STAT (250 - 490 FT³ (7 - 14m³))

SOLOMIX 1 STAT (250 - 490 FT³ (7 - 14m³))

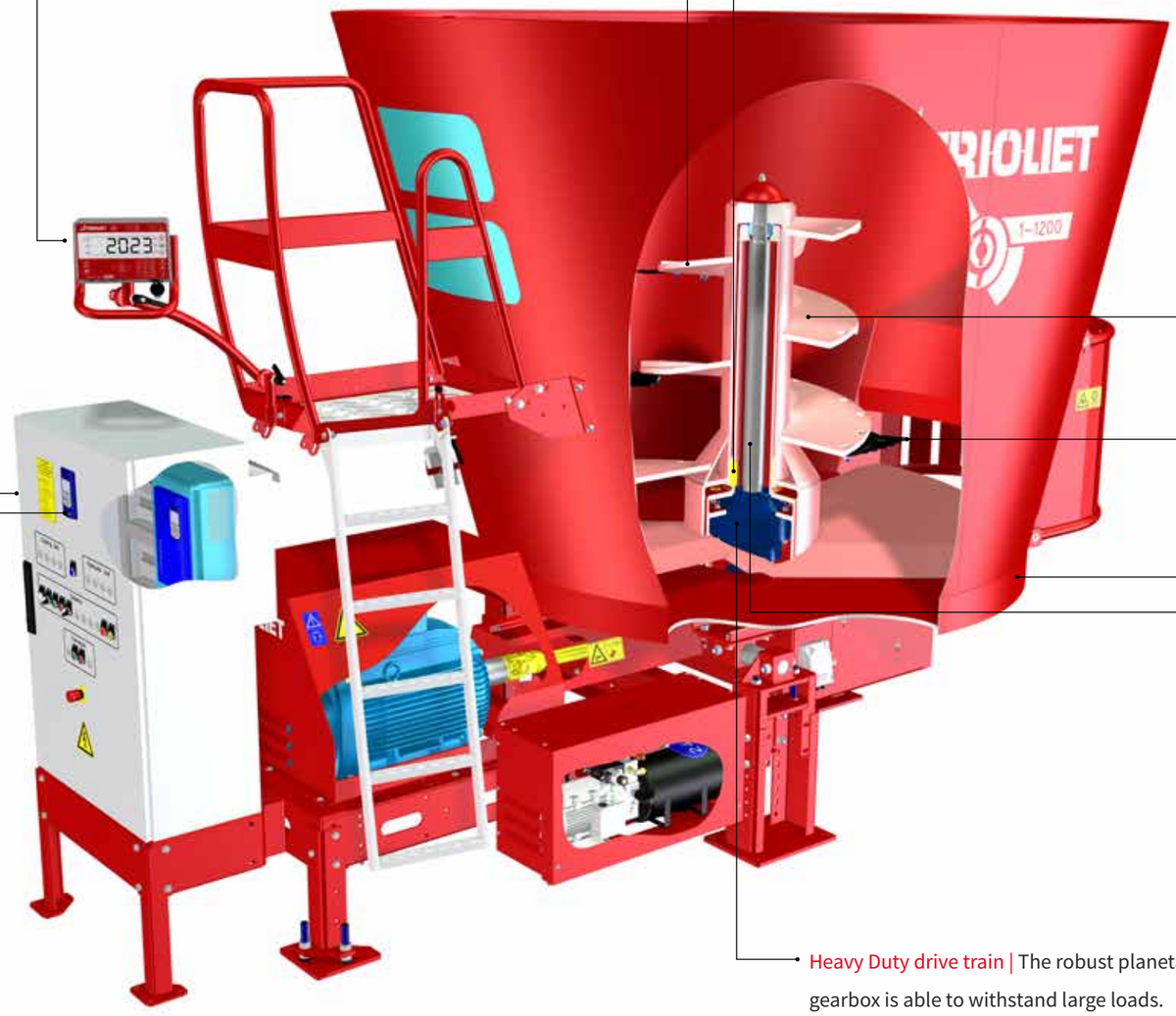
The Solomix 1 stationary with 1 vertical auger is suitable for farms where small amounts of feed are mixed at a time. Because the mixer is compact, it fits in almost any barn or shed and can be easily integrated into existing barns. For discharging the feed, the mixer can be equipped with a discharge belt/chain or a side discharge door. A feeder, feeding belt or robot will then discharge the feed.
It is a clear system that is easy to fit into any farm and quick to install thanks to the plug and play principle.

There are 2 different control systems for controlling the loading, weighing, mixing and unloading of the stationary feed mixing systems: manual control and automatic control. With automatic control, the machine can prepare rations, adjust weights and discharge independently.

SOLOMIX 1 STAT FEATURES

Unique weighing system | 3 sturdy weighing bars ensure maximum stability. With a double measurement per weighing bar, the weight is displayed with utmost accuracy. The bright LCD display is well shielded in a shock-resistant, waterproof housing.

Twin Stream auger | The slim auger core and the large auger surface contribute to an optimal fill factor and a fast and homogeneous mix. The 2 symmetrical discharge wings ensure fast mixing and even discharge, even with small mixtures.



Unique auger bearing | When mixing feed, large lateral and vertical forces are exerted on the auger, especially when round bales are being processed. The large bearing distance ensures optimum stability and therefore a long service life.

Stronger and durable auger thanks to the overlapping welds | The auger sections are welded together overlapping for a stronger construction and high-wear resistance.

Less resistance, less fuel | The patented shape of the Trioform auger knives ensures perfect cutting action and reduces resistance. This saves fuel.

Control system | Both manual and automatic control systems are available for loading, weighing, mixing and discharging.

Strong, stable mixing tub | The mixing tub is equipped with a special wear strip at the bottom, where the pressure on the mixing chamber is greatest. This ensures greater stability and a longer service life.

Slim, stable auger column | The slim auger column is very stable because it is directly supported by the chassis underneath. In this way, the forces generated during the mixing process are effectively absorbed.

Heavy Duty drive train | The robust planetary gearbox is able to withstand large loads.

Pre-programmed AC drive | With unique software for automatic mixer speed control during the mixing cycle.

SOLOMIX 2 STAT (420 - 980 FT³ (12 - 28 m³))

The Solomix 2 stationary with 2 augers is suitable for farms that process large quantities of feed or several bales per feed turn. The capacity can be expanded by using multiple mixers side by side. This allows multiple rations to be mixed at the same time.

The 2 vertical augers mix the feed according to the Dual Flow principle, in which the feed components are transported both vertically and horizontally through the mixing tub. This ensures extremely fast and homogeneous mixing. For discharging the feed, the mixer can be equipped with a discharge belt/chain or a side discharge door. A feeder, feeding belt or a robot will then discharge the feed.

ELECTRIC DRIVE

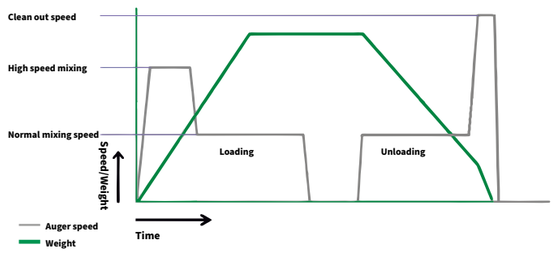
The mixing tub is powered by an electric motor, a sustainable solution because it reduces fossil fuel consumption. The larger the motor, the greater the permitted load capacity. Larger motors, however, also require more power, so it is important that the power grid is suitable. We offer various multi-pole electric motors, which means that there is a solution for every grid capacity.

Advantages of Solomix STAT

- 100% electric
- Direct drive, no hydrostat
- AC drive instead of soft starter

AUTOMATIC OPTIMUM AUGER SPEED

The auger speed for mixing the fodder is automatically regulated to the optimum level. The auger speed is matched to the weight present in the mixing tub. For example, the augers will rotate faster during start-up, so they can cut the feed better and so be able to mix it better. Once the feed has been mixed loose and the heavy components have been added, the augers will slow down to a lower mixing speed to save energy. This ensures a perfectly mixed ration with minimum power consumption.



MANUAL OR AUTOMATIC CONTROL

The augers, the discharge unit and any chain conveyors, feeding robots and silos are controlled by the control panel. There are 2 types of control systems:

1. Manual control
2. Automatic control

MANUAL CONTROL

Manual control is suitable for farms where automation plays little or no role. It gives you the flexibility to decide for yourself what and when to feed. You load the feed components yourself and control the stationary mixer using the control buttons on the control panel or via the remote control, e.g. from the loading vehicle. The control unit can be installed as a stand-alone unit in a location that is most suitable for you.

The manual control system can also be configured as a slave system, e.g. in the case of a belt feeding system or a feeding robot. This means that another control system that is designated as the master controls the stationary mixer.

AUTOMATIC CONTROL

Automatic control is suitable for farms that wish to automate (part of) the feeding process. These are usually farms where different rations are made for several animal groups. Feed components, rations, animal groups and tasks can be easily pre-programmed using the touchscreen or a feed management system.

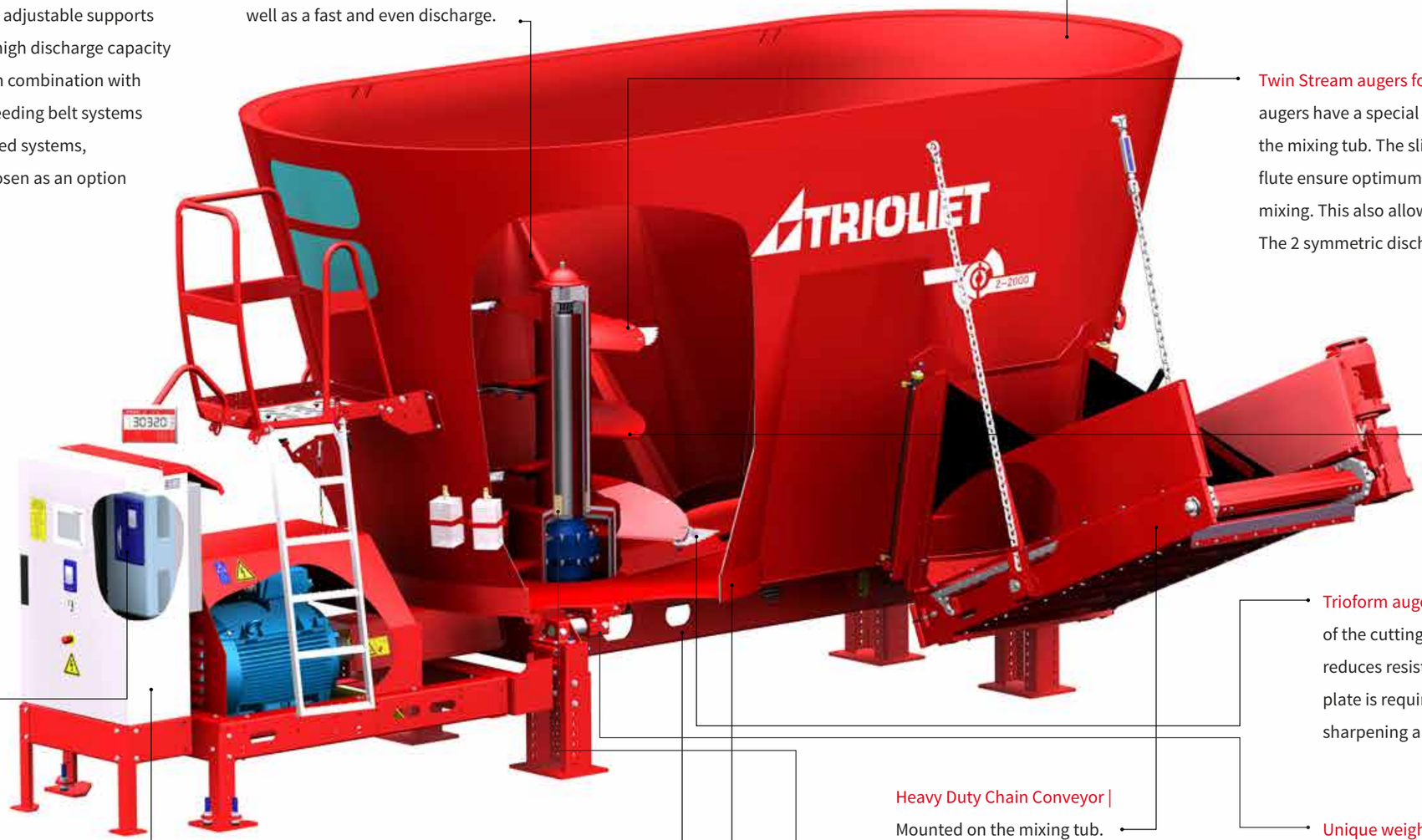
If the rations and feed turns have been saved, the system will automatically load all components, adjust the weight if necessary and then discharge. One of the major advantages is that loading is very accurate, so that concentrate feed is efficiently handled and feeding is very precise. The system can be operated from the loading vehicle or the feeder and changes can still be made to parameters such as the ration or the group of animals. A remote control with touchscreen and weighing indicator is available for this purpose.

SOLOMIX 2 STAT UNIQUE FEATURES

- Variable auger speed for optimum mixing speed as well as superior and full discharge
- Direct drive line with one electric motor, without reduction gearbox
- Rotation sensors to avoid error messages
- One electric motor for optimal timing of the auger(s)
- Adjustable height thanks to adjustable supports
- Chain conveyors with very high discharge capacity
- Ideal feed mixing systems in combination with a Trioliet feeding robot or feeding belt systems
- In the case of intensively used systems, a cooling system can be chosen as an option

Dual Flow through unique inserts | Asymmetrical feed guides (called inserts) are fitted in feed mixing systems with 2 or 3 augers, . Trioliet holds a patent on the shape and positioning of these inserts; our feeding systems are unique in this respect. The inserts also force the feed to mix in a horizontal direction (Dual Flow). This quickly leads to an optimal, homogeneously mixed ration as well as a fast and even discharge.

ALSO WATCH OUR VIDEO:
"HOW TO OPTIMIZE YOUR MIXER FEEDER"
AT TRIOLIET.COM



S355JR | All Trioliet feed mixers (mixing tub, auger(s), chassis and wear strip) are manufactured from S355JR (St. 52).

Twin Stream augers for fast mixing and discharging | Twin Stream augers have a special shape that is optimally proportioned to the mixing tub. The slim auger core and large surface of the auger flute ensure optimum filling as well as fast and homogeneous mixing. This also allows small mixtures to be mixed quickly. The 2 symmetric discharge wings ensure smooth and even discharge.

Specially welded augers | Overlapping construction of the augers makes them stronger, increasing the service life.

Trioform auger knives save fuel | The patented shape of the cutting knives mounted horizontally on the auger reduces resistance during mixing because no support plate is required. This saves fuel. The knives are self-sharpening and will last a long time.

Heavy Duty Chain Conveyor | Mounted on the mixing tub.

Unique weighing system | The Trioliet electronic weighing system is equipped as standard with four (4-point) robust weighing bars for maximum accuracy. Each weighing bar is equipped with 2 strain gauges. The weight is displayed with the highest precision thanks to the Trioliet weighing indicator in an impact-resistant watertight housing. Many option s and accessories are available, such as data link wireless data transfer, Trioliet Feed Management (TFM) software, remote control and Cab Control computers.

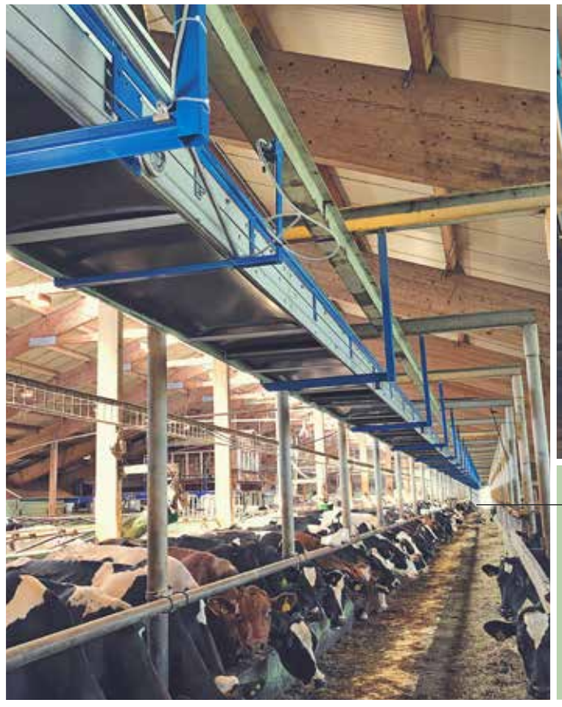
Pre-programmed AC drive | With unique software for automatic mixer speed control during the mixing cycle.

Integrated chassis for long service life | All auger forces are properly absorbed in the mixing tub because the mixing tub is positioned directly on the chassis.

Trioliet wear strip for greater stability and longer service life | The special Trioliet wear strip at the bottom of the mixing tub ensures a longer service life for the mixing tub.

Unique auger bearing | When mixing tons of feed, large lateral and vertical forces are naturally exerted on the auger(s). The robust top bearing and the large glide bearing together with the large bearing distance ensure optimal stability and long service life.

Control system | Both manual and automatic control systems are available for loading, weighing, mixing and discharging.

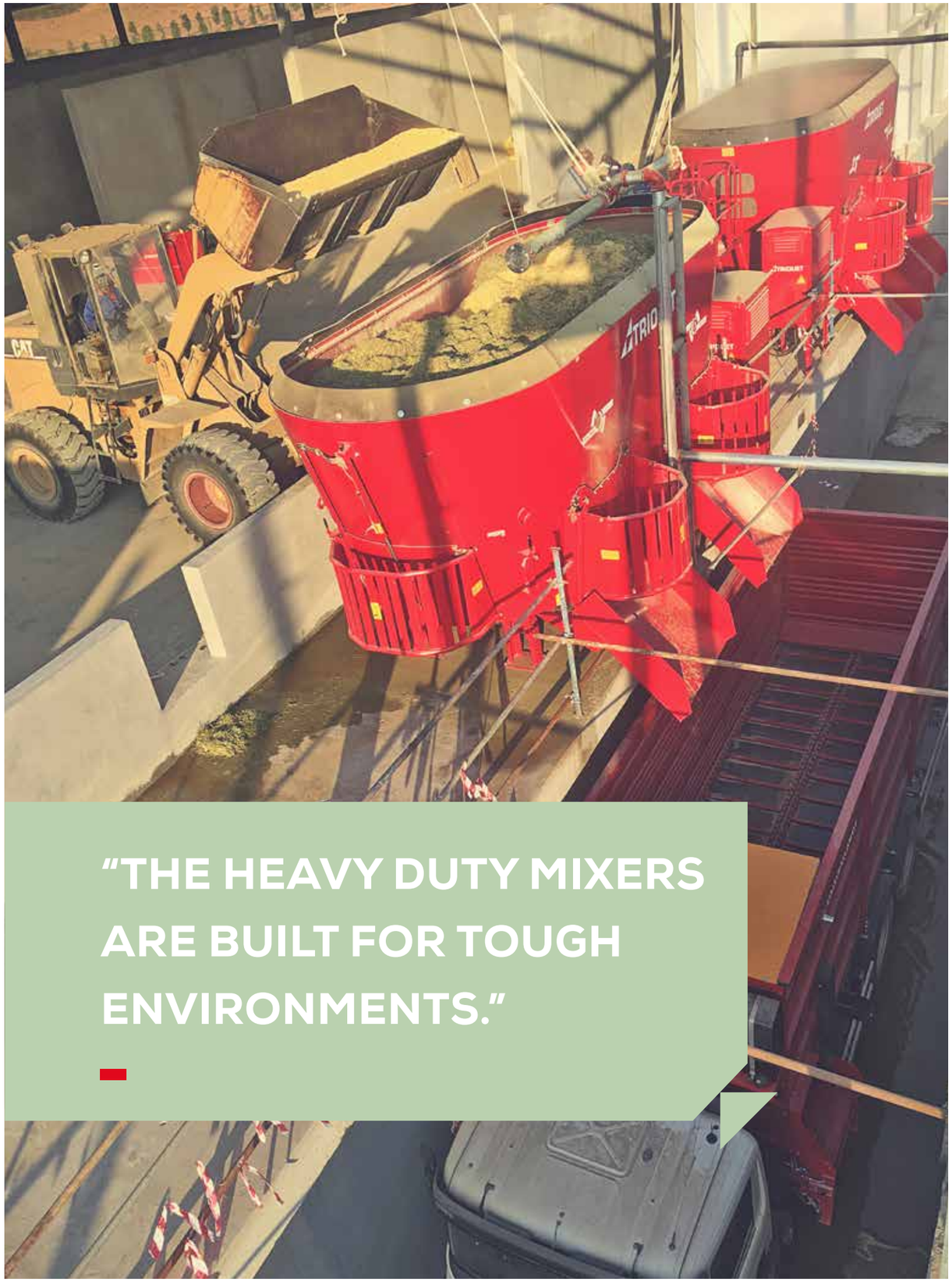


LOCATION	Sweden
FEEDING SYSTEM	1x Solomix 2 2000 STAT
DISCHARGING WITH	Feeding belt

SOLOMIX 2 AND 3 STAT HEAVY DUTY (1130 - 1840 FT³ (32 - 52 m³))

The Heavy Duty mixers are suitable for farms that process very large quantities of feed. The Heavy Duty range consists of the large, robust stationary mixers. These are mainly mixers with 3 augers, but also the Solomix 2 with 2 augers and a capacity of 1130 ft³ or 1270 ft³ (32 m³ or 36 m³).
The Heavy Duty mixers are built for tough environments. Heavier, thicker materials are used so that the mixers are suitable for intensive and long-term use. These machines are supplied with a heavy-duty, high-speed drive line and the robust mixing augers are equipped with extra reinforcement so that large amounts of feed can be processed quickly and effortlessly and the construction can withstand high forces.

For discharging the feed, the mixer can be equipped with a discharge chain or a side discharge door. In order to increase the discharge capacity and save time, multiple chains or discharge doors can be fitted. Then one or more feeders discharges the feed. The capacity can also be expanded by using multiple mixers side by side. Multiple mixers increase efficiency as there are no waiting times for loading and unloading. The feeding process can run continuously.



"THE HEAVY DUTY MIXERS ARE BUILT FOR TOUGH ENVIRONMENTS."

SOLOMIX 2 AND 3 STAT HEAVY DUTY FEATURES

- Variable auger speed for optimum mixing speed as well as superior and full discharge
- Heavy-Duty Drive Line
- Shear bolt protection at the top of the auger(s) to avoid disasters
- Rotation sensors to prevent error messages
- Direct drive line with one electric motor, without reduction gearbox
- One electric motor for optimal timing of the auger(s)
- Adjustable height thanks to adjustable supports
- Wide chain conveyors with very high capacity for fast discharge into the loading and discharge wagon(s)
- Perfect solution for large dairy and beef cattle farms
- Heavy-duty cooling system for the planetary drive line.

Control system | Both manual and automatic control systems are available for loading, weighing, mixing and discharging.

Dual Flow through unique inserts | In the feed mixing systems with 2 or 3 augers, asymmetrical feed guides (inserts) are fitted in the inside. Trioliet holds a patent on the shape and positioning of these inserts; our feeding systems are unique in this respect. The inserts also force the feed to mix in a horizontal direction (Dual Flow). This quickly leads to an optimal, homogeneously mixed ration as well as fast and even discharge.

Twin Stream augers for fast mixing and discharging | Twin Stream augers have a special shape that is optimally proportioned to the mixing tub. The slim auger core and large surface of the auger flute ensure optimum filling as well as fast and homogeneous mixing. This also allows small mixtures to be mixed quickly. The 2 symmetrical discharge wings ensure smooth and even discharge.

Shear bolt safety | Shear bolt safety at the top of the auger (s). (Only for HD mixers).

Specially welded augers | The overlapping construction of the augers makes them stronger, increasing the service life.

Trioform auger knives save fuel | The patented shape of the cutting knives mounted horizontally on the auger reduces resistance during mixing because no support plate is required. This saves fuel. The knives are self-sharpening and will last a long time.

Heavy-Duty Drive Line | With heavy-duty gearboxes (without reduction gearboxes)

Pre-programmed AC drive | With unique software for automatic mixer speed control during the mixing cycle.

Unique auger bearing | When mixing tons of feed, large lateral and vertical forces are naturally exerted on the auger(s). The robust top bearing and the large glide bearing together with the large bearing distance ensure optimal stability and long service life.

Trioliet wear strip for greater stability and longer service life | The special Trioliet wear strip at the bottom of the mixing tub ensures a longer service life for the mixing tub.

S355JR | All Trioliet feed mixers (mixing tub, auger(s), chassis and wear strip) are manufactured from S355JR (St. 52).

Integrated chassis for long service life | All auger forces are properly absorbed in the mixing tub because the mixing tub is positioned directly on the chassis.

Unique weighing system | The Trioliet electronic weighing system is equipped as standard with four (4-point) robust weighing bars for maximum accuracy. Each weighing bar is equipped with 2 strain gauges. The weight is displayed with the highest precision thanks to the Trioliet weighing indicator in an impact-resistant watertight housing. There are many options and accessories available, such as data link wireless data transfer, Trioliet Feed Management (TFM) software, remote control and CAB control computers.

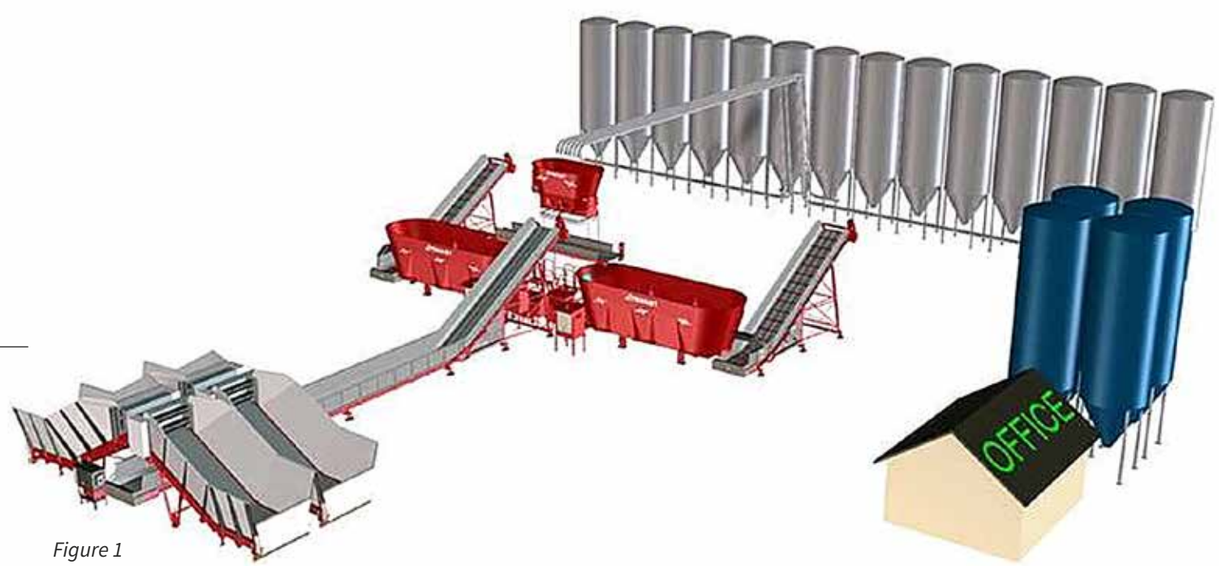


Figure 1

WHY AUTOMATE?

In the agricultural sector, it is becoming increasingly difficult to find qualified staff. This means that there is a growing need for efficiency and automation. The idea is to do as much work as possible with a minimum of staff. With an automated feeding system, many hours of work on time-consuming tasks like feeding can quickly be saved on a cattle farm. In addition, an automated feeding system enables very accurately and consistent feeding. This means that the animals perform better and you save on feed costs.

The main benefits are:

- Expensive concentrate components are automatically loaded with utmost accuracy and with a minimum of waste
- The animals are continuously given a homogeneously mixed ration which allows them to perform better and more consistently
- Minimum labor force utilization
- Lower energy costs by using electricity instead of fossil fuel

From a financial point of view, these benefits are an important advantage, also for the long term.

SAVE TIME WITH PRE-COLLECTION

The pre-collecting unit is a chain on which the feed components can be loaded while the mixer is still mixing another ration. Figure 1 shows 4 storage bunkers that discharge onto a chain conveyor. The feed then goes to one of the two stationary mixers. To save time, the feed components of the following feed turn can be loaded onto the chain in advance. The software keeps track of the fact that the next ration is started while the mixers are still working on another (previous) ration. As soon as the mixer is empty and available, the next ration is loaded.

ALSO WATCH OUR VIDEO:

Pro XL video

"VIEW THE ENORMOUS CAPACITY OF THE **PRO XL CHAIN CONVEYOR**."

Scan the QR code with the smartphone camera to open the video web page.

HEAVY-DUTY CHAIN CONVEYORS

Various types of chain conveyors are available for discharging the feed to the mixer feeder or delivery truck. Heavy-duty chain conveyors are available for large installations operating under harsh conditions:

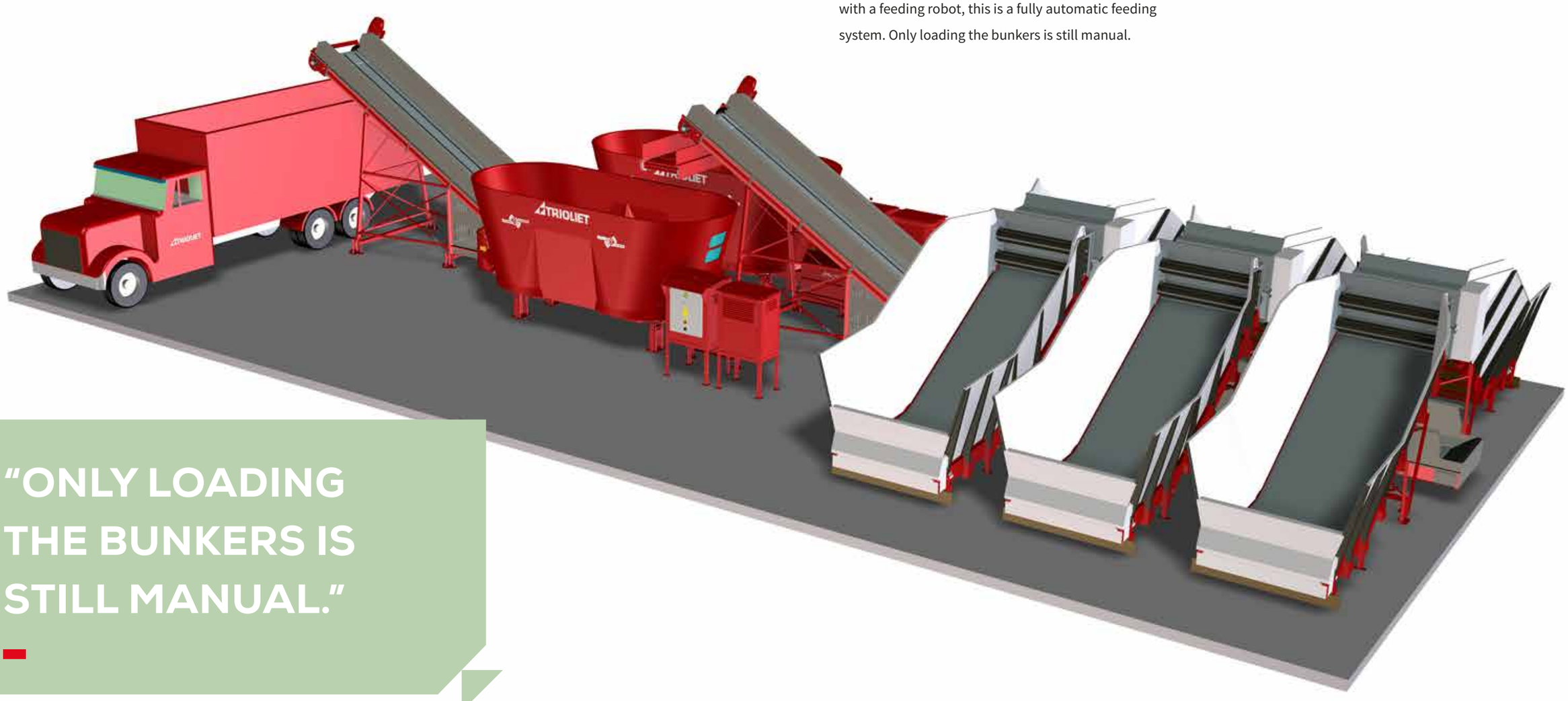
- **Pro L** (3 ft 7" (1.10 m) wide)
- **Pro XL** (4 ft 10" (1.47 m) wide)
- **Pre-collection** pre-collecting unit

CUSTOM STATIONARY FEEDING SYSTEM

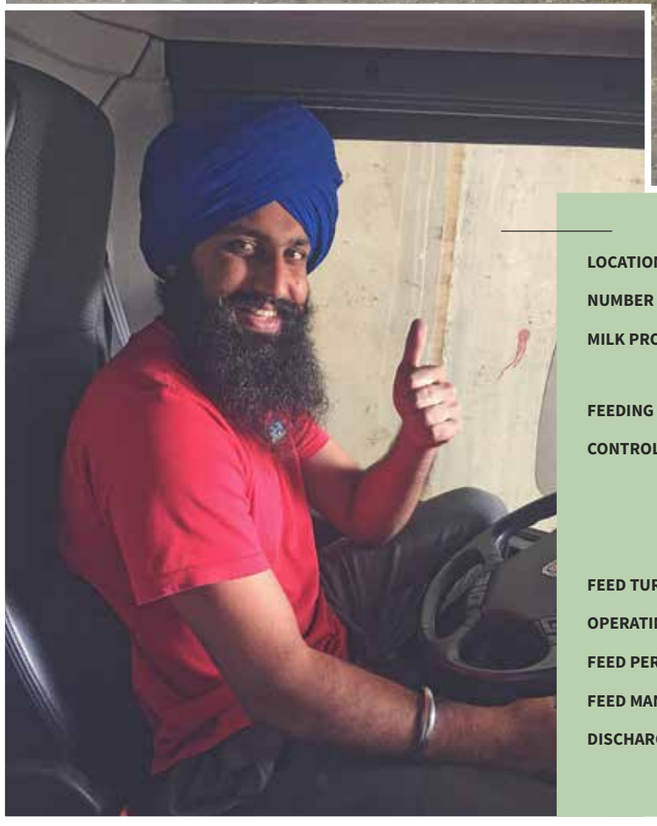
Our strength lies in the development of custom stationary installations. Because every farm is different and people choose a specific feeding system based on various environmental factors, we offer a very extensive and complete range of stationary feeding systems. We have systems for farms with 50 to 50,000 animals.

Large cattle farms in particular often need a custom solution. We have already delivered several large stationary projects, where Trioliet has provided the complete installation and implementation. Stationary feed mixers in combination with an automatic feed kitchen and/or feeding robots.

This is a setup with 2 stationary mixers and 6 storage bunkers. The number of storage bunkers depends on the number of fodder components. Both the bunkers and mixers are controlled automatically. The feed is transported from the bunkers to the mixers and then to a feeder/delivery truck or a feeding robot. In combination with a feeding robot, this is a fully automatic feeding system. Only loading the bunkers is still manual.



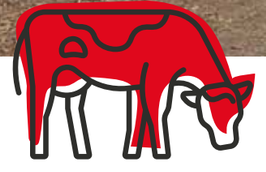
"ONLY LOADING THE BUNKERS IS STILL MANUAL."



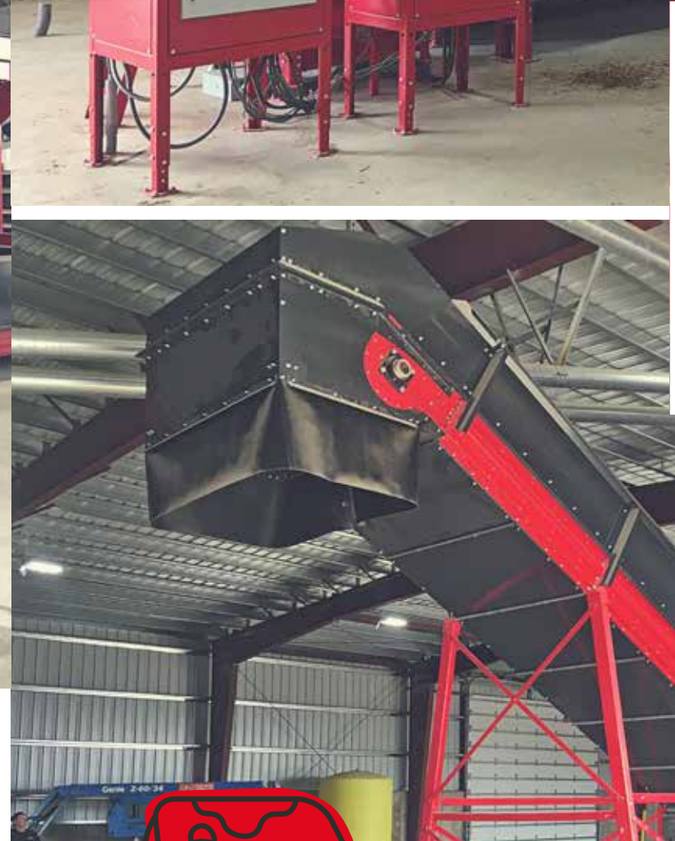
LOCATION	United Arab Emirates
NUMBER OF COWS	4,200 Holstein cows
MILK PRODUCTION	13.7 million gallons (52.5 million liters) of milk per year
FEEDING SYSTEM	2x STAT2-3200 Heavy Duty Mixer
CONTROL	Touchscreen control panel with silo control (the STAT mixers are the master for the entire feed cycle)
FEED TURNS PER DAY	3
OPERATING HOURS PER DAY	8 - 9 hours
FEED PER DAY	209,000 lbs (95,000 kg)
FEED MANAGEMENT	TFM tracker Pro+ Feed Management
DISCHARGING WITH	2x delivery boxes, truck mounted

209,000 pounds (95,000 kg) of feed per day

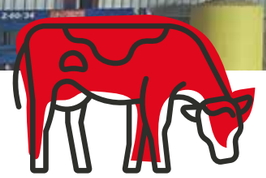
LOCATION	United States
NUMBER OF COWS	8,000 cows
MILK PRODUCTION	21 million gallons (80 million liters) of milk per year
FEEDING SYSTEM	2x stationary mixers Solomix 3 4600 STAT
CONTROL	Manual control
FEED TURNS PER DAY	2
OPERATING HOURS PER DAY	6 hours



8,000 cows



LOCATION	United States
NUMBER OF COWS	4,000
FEEDING SYSTEM	2 x Solomix 2 3200 STAT with chain conveyor, 6 bunkers, and pre-collecting unit for concentrates and minerals
CONTROL	Automatic control
FEED TURNS PER DAY	2 - 4



4,000 cows

IMPROVE FEED ACCURACY WITH AN AUTOMATED STATIONARY FEED MIXER

At Vir-Clar Farms, they have been able to reduce the time they spend feeding their 2,400 cows by around 2 - 3 hours a day by allowing automation to work to their advantage. Grant Grindstead: “We’re feeding around 128,000 lbs (58,000 kg) of feed per day and looking for ways to be more accurate and improve efficiency. It’s amazing to see what we’ve achieved.”

“If we look at other sectors, such as poultry or hog farming, automated feeding systems are already being used much more often. I suddenly thought, ’why do we tow a mixer feeder to the cows every day? Why not turn it around and let a stationary feeding system prepare the rations in various feed turns. I started to investigate what was available for sale in the field of automatic feeding and ended up with the Solomix stationary mixer with two augers. We still need to load the fodder ourselves, but the concentrate and minerals are loaded automatically.”

“We also use TFM Tracker feed management to store our feed components and use it as an inventory for our dry ingredients. The feed schedule is programmed and sent every morning to the stationary mixer, which takes over from there. One of the most important insights we gain from this is how much feed is actually loaded and mixed and what it ultimately delivers. This gives us a payback time of 3 years because we are able to feed extremely accurately and precisely every day.”

ALSO WATCH OUR VIDEO:

Watch interview

Scan the QR code with your smartphone camera and watch the video interview with Grant Grindstead.

“WE’VE REDUCED OUR FEEDING TIME BY AROUND 2 TO 3 HOURS A DAY THROUGH AUTOMATION.”

Grant Grindstead | Dairy farmer in Wisconsin (USA)
Feeding with Solomix 2-3200 STAT Heavy Duty

2,400 cows

STURDY MATERIALS FOR LONG SERVICE LIFE

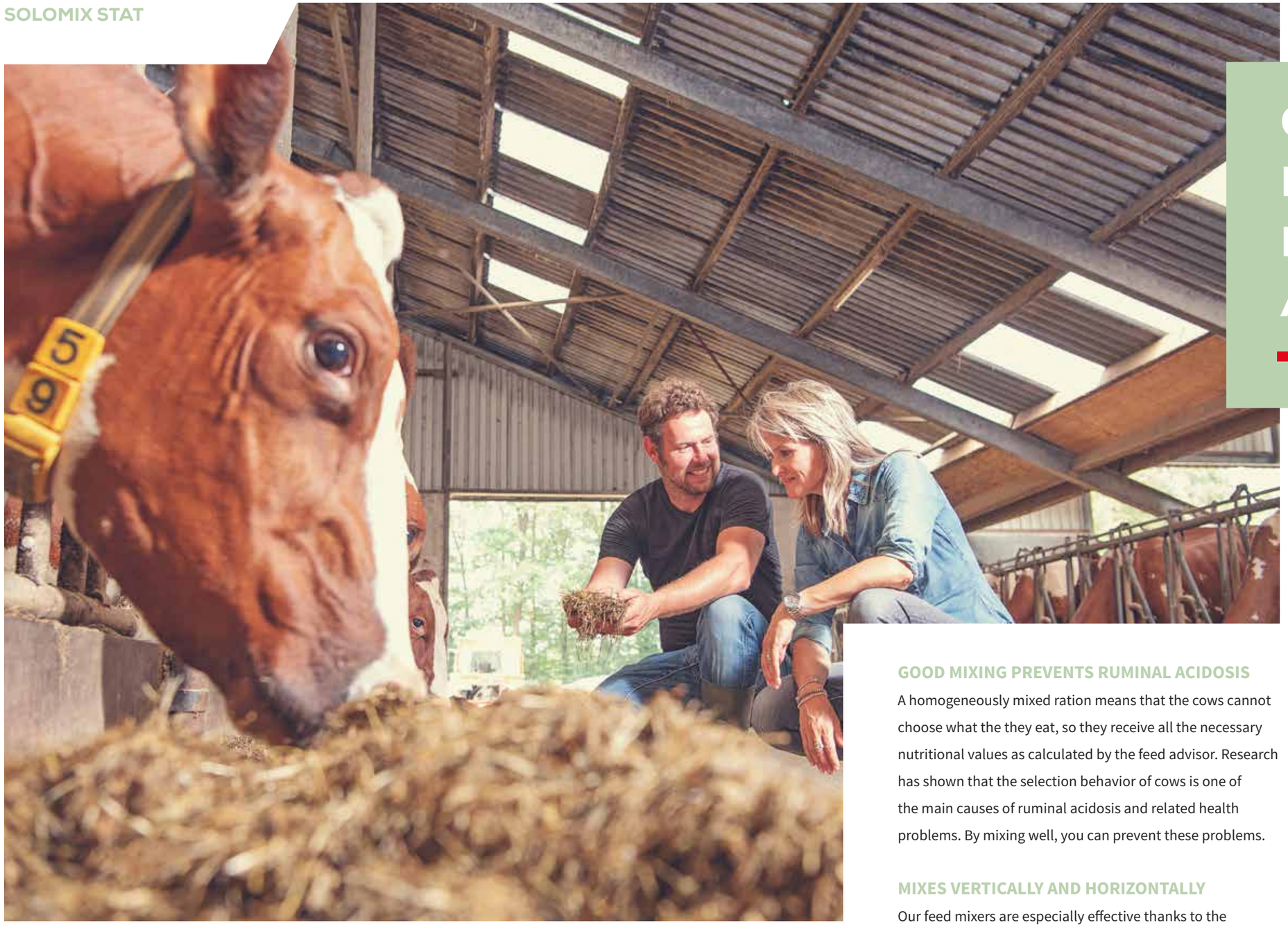
STAND-ALONE

The system communicates with the Trioliet Feed Management (TFM) program in order to synchronize ingredients, rations, animal groups, etc. TFM in turn can communicate with farm management systems. Together with the control system, the stationary mixer can be easily connected to the power grid as a stand-alone unit without the need for any further installation technology.

REMOTE SERVICE

The Trioliet service department and the dealer can access the machine controller via the Remote module. The most important machine parameters can be viewed and changed. At the same time, faults can be read remotely and, in many cases, corrected without the need for an on-site technician. This results in significant gains in both time and costs.

As you can imagine, there are enormous forces on the mixer during mixing. To absorb these forces well, the chassis is integrated into the mixing tub so that the forces are distributed and the mixing tub is not overloaded. In addition, the Solomix is made of wear-resistant steel and has an extra-thick wear strip at the bottom of the mixing tub. This robust construction ensures stability and a long service life. For even more wear resistance, an extra stainless steel Trionox liner can be fitted in the mixing tub.



GOOD MIXING PREVENTS RUMINAL ACIDOSIS

Check out our online blog for a video on the Dual Flow principle. www.trioliet.nl/blog_artikelen

SMART DESIGN

Thanks to a number of smart design features, the feed is mixed faster and better than with comparable feed mixers. For example, specially shaped Twin Stream augers, inserts in the mixing tub and self-sharpening knives ensure homogeneous mixing of the forage.

GOOD MIXING PREVENTS RUMINAL ACIDOSIS

A homogeneously mixed ration means that the cows cannot choose what the they eat, so they receive all the necessary nutritional values as calculated by the feed advisor. Research has shown that the selection behavior of cows is one of the main causes of ruminal acidosis and related health problems. By mixing well, you can prevent these problems.

MIXES VERTICALLY AND HORIZONTALLY

Our feed mixers are especially effective thanks to the special shape of the mixing tub and the unique Twin Stream augers. The mixers are designed to achieve the best mixing result. Thanks to the patented triangular inserts, the feed in the mixing tub is transported horizontally through the tub and goes from one auger to the other and back again. This Dual Flow principle results in a perfect mix.

In addition, thanks to the unique shape of the augers, the feed is pushed up and then drops back down by gravity. The feed is therefore propelled both vertically and horizontally throughout the mixing tub.

In combination with the self-sharpening auger knives in the right positions, this makes good mixing easy, even with round or square bales and compact feeds. The two symmetrical discharge wings on the augers and the integrated discharge doors ensure fast and even discharge, even for small mixtures.

- √ Perfect mixing result
- √ Self-sharpening auger knives
- √ Even discharge

Here you can see a new auger knife and a worn auger knife

SHARP AUGER KNIVES ARE IMPORTANT FOR GOOD MIXING RESULTS

For a good mixing result, it is important that the auger knives are sharp. Particularly with long fodder components such as grass, it is important that the feed is properly cut and can mix well with the other ingredients. This also requires less power. Check the condition of the knives on the mixing augers regularly.

Trioliet makes self-sharpening Trioform auger knives. Thanks to its unique shape and hardened steel, the knife sharpens itself and Trioform knives last longer than other brands' auger knives. Depending on the type of fodder components, you can opt for short and/or long knives, sometimes in combination with a top knife, for example when processing bales. It is also important to place the knives in the correct positions on the auger.

Ask your dealer or consult the instructional video on our website for the best knife positions: www.trioliet.com.

TRIOMASTER S MAKES SUPER-SMOOTH CUTS

TRIOMASTER S SILAGE GRAB

The Triomaster S is an ideal loading and silage cutter for cattle farmers and ranchers who care about their fodder storage. The Triomaster S has a fixed knife that effortlessly punches through all types of silage without the feed becoming detached. The silage remains intact and is not squeezed or pulled off, as is often the case with other silage grabs. The cutting die of the Triomaster S keeps the cut surface nicely smooth and tight so the risk of self-heating is reduced to a minimum. The Triomaster S is available with capacities of 70 and 106 ft^3 (2 and 3 m^3).

The magnets can also be retrofitted on existing machines.

USE MAGNETS TO AVOID SHARP METAL PIECES

It is estimated that around 12,000 cows in the Netherlands alone are injured every year by eating stray metal pieces present in their feed. A further 4,000 cows die as a result of hardware disease. Wageningen University investigated the effects of stray metal pieces and concluded that stray metal pieces cost dairy farmers millions of euros a year because of veterinary treatment, death and reduced milk production. However, there is a relatively simple and inexpensive solution: magnets in the feed mixer.

Trioliet offers three different magnets:

1. Auger magnets on the auger blade
2. Magnet rods on a cross discharge belt or chain
3. Magnet strip on the discharge chute at a side discharge door

GAIN INSIGHT INTO FEED AND CONCENTRATE COSTS WITH TFM

MEASURING IS KNOWING

REDUCE DAILY FEED COSTS

As a cattle farmer, you know that feed costs account for 40 to 50 percent of your expenses. This means you always need to keep a close eye on them. There is often a lot of room for improvement, even if you are already feeding accurately. With good feed management, you can save up to ten percent on your daily feed costs.

The TFM feed management program compares the rations that have been determined in advance with what has actually been fed. As a cattle farmer, you can use this data to see exactly where any deviations are and thus where improvements can be made. You gain insight into the feed and concentrate costs in relation to the yield. You can use these insights to make adjustments where necessary.

TRIOTRONIC WEIGHING SYSTEMS

The Triotronic electronic weighing system is an indispensable tool for cattle farms in order to feed livestock accurately. The Triotronic weighing systems are equipped with 3 or 4 robust weighing bars that ensure maximum accuracy. Weighing occurs at least twice at each weighing bar. The calculated mean value ensures reliable weighing results. This also makes the weighing bars insensitive to peak loads.

WEIGHING INDICATORS

As standard, the weighing system is supplied with a Triotronic programmable weighing computer. This weighing indicator with a clear LCD display allows you to read the loading weight. The weight is displayed per feed component in addition to the total weight. It is also possible to program rations, whether or not in combination with a feed management system. A warning signal indicates when the target weight has been reached.

Data transfer to Troliet Feed Management (TFM) is done via USB stick or wirelessly via Wi-Fi.

REMOTE DISPLAY

There is also another option which can be read remotely: the large remote display. The remote display is an LED display that makes it easy to read the weight while loading even at a great distance, such as from telescopic handler, front-end loader or tractor. In combination with an automatic control system, the weight per ingredient is also displayed.

CAB CONTROL

In addition to the weighing computers on the mixer feeder, a Cab Control indicator also makes it possible to read the weight from the loading vehicle. With Cab Control, you always have a wireless view of the actual weight, even in front of the silage pit or at a concentrate silo.

GET THE BEST OUT OF YOUR STATIONARY MIXER

We offer two Cab Control (CC) options:

1. **CC 400 View.** The CC 400 View indicator allows you to validate the weighing system on the mixer wagon remotely and to switch between net/gross and total weight (counting function). With a programmable weighing system, you can also switch between the various components.

2. **CC 500 Touch.** The CC 500 Touch indicator with touchscreen allows you to reset the programmable weighing system on the mixer feeder, switch between net/gross and total weight, select a programmed ration and start or switch between the various components. With the CC 500, you can also switch the augers on and off or operate the discharge doors.

Remote display on mixer feeder

Triotronic 3610V weighing indicator

CC 400 View indicator

CC 500 Touch indicator with touch screen

TRIOLIET FEED MANAGEMENT (TFM) SYSTEM

Control over your feed costs

The TFM feed management program provides a wealth of valuable information. Not only the rations, the dry matter uptake and the loading accuracy, but also the amount of residual feed and the stocks of raw and concentrate feed can be recorded on the basis of fed rations.

In clear graphic reports, you can immediately see what the feed costs are and what the average is over a certain period. In addition, the program can be linked to other farm management systems. In this case, for example, the feed data is linked to milk production and the feed efficiency can be easily determined or animal numbers can be synchronized automatically. In short, it answers one of the most important questions: “What is my return?”.

The Lite version of the TFM feed management system is ideal for cattle farmers who want to get started with feed management. It is a simple and clear system that allows you to program the feed components, rations and animal groups on the computer and then exchange the data with the weighing computer on the mixer. The reports show at a glance how much feed is actually loaded and fed in relation to the planned ration and you know what the dry matter uptake is per cow. TFM can be easily expanded with features such as inventory management, feed cost overview and coupling to farm management systems.

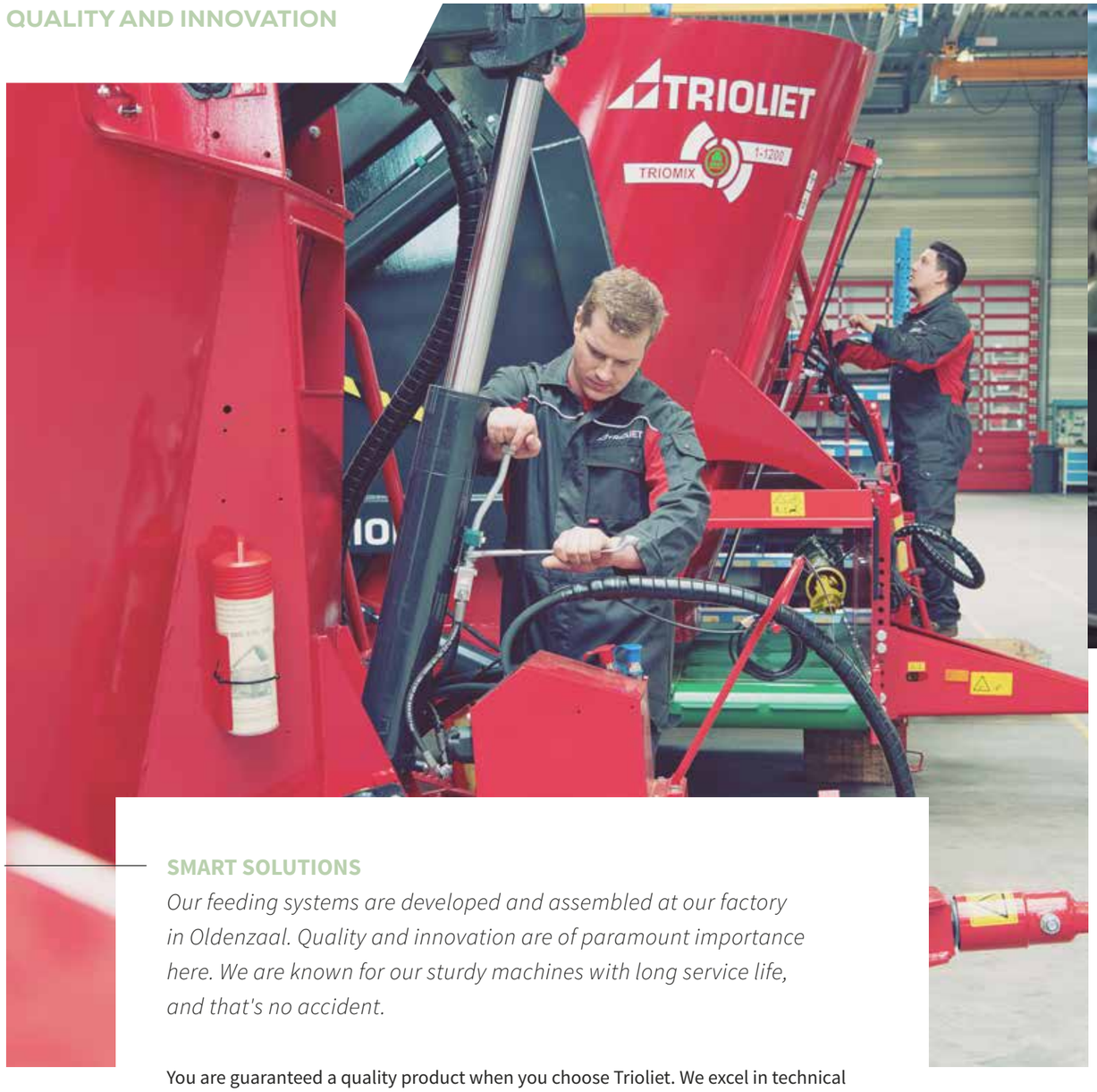
Do you know what your animals are getting?

TFM BEEF

The TFM Beef version offers many possibilities for beef cattle farmers. The feed management system can track animals per group, handle any feed curves, generate reports based on daily weight increase and create reports on feed costs per increase in weight. The system can also generate dry matter feed conversion and create a total summary report when delivering animals.

TFM CONTRACTOR

The TFM Contractor version has been specially developed for contract operators to enable them to manage and control the feeding process for multiple customers. The workflow is easy to check because all feeding times and weights are generated. Based on these feeding times and quantities, invoicing per customer is very easy.

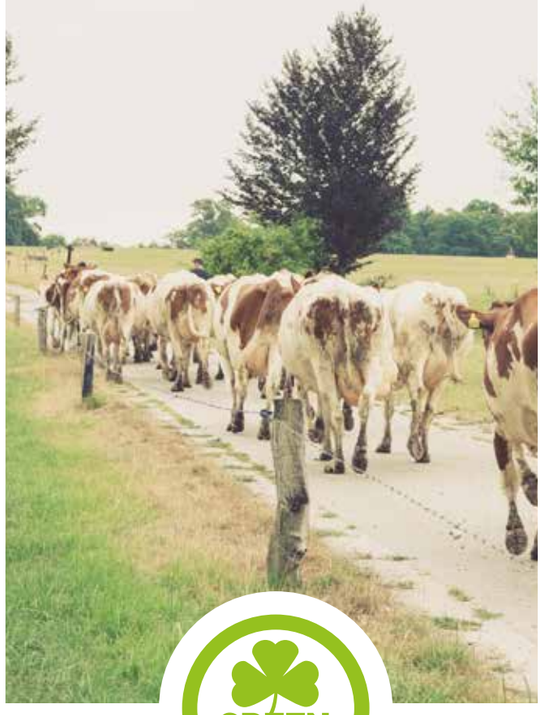


SMART SOLUTIONS

Our feeding systems are developed and assembled at our factory in Oldenzaal. Quality and innovation are of paramount importance here. We are known for our sturdy machines with long service life, and that's no accident.

You are guaranteed a quality product when you choose Trioliet. We excel in technical ingenuity. There's a good reason why we hold dozens of patents. Our R&D department consists of highly skilled engineers who not only understand mechanical engineering and mechatronics, but also have an affinity with the agricultural sector. This means that we always develop based on the user's vision. New machines are thoroughly tested before they go into production.

Every day, more than 350 employees work on the development, assembly and sale of our feeding systems. Both at the main location in the Netherlands and in the field, at home and abroad. Over 85% of the machines are exported to more than 50 countries. Trioliet feeding machines can be found in countries such as Germany, the United States, Mexico, Uruguay, Chile, Saudi Arabia, France, Ireland, China, Norway, Russia and Australia, to name but a few.



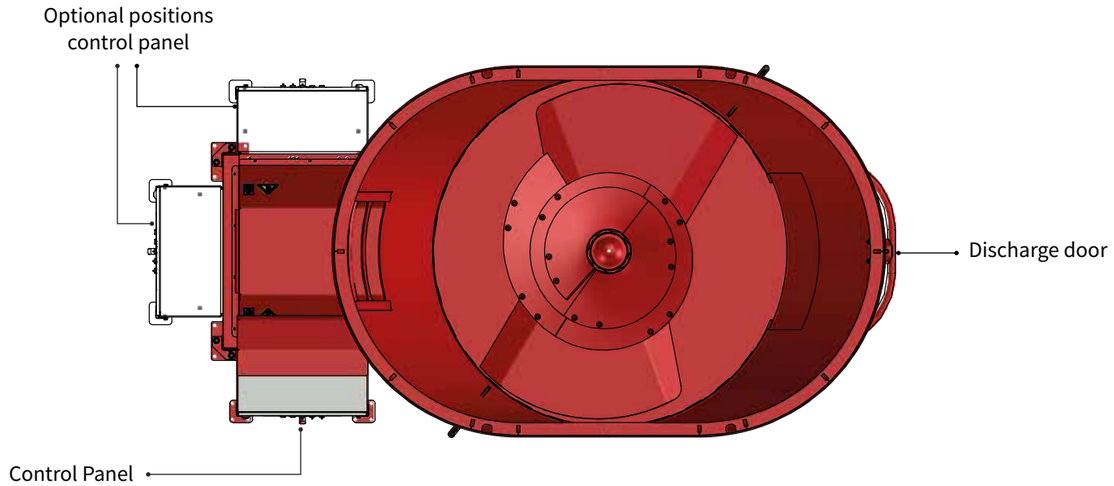
GREEN LABEL

Everything we design and produce is intended to serve the cattle farmer. Work lighting, time and fuel savings, healthy cattle and perfect mixing quality are some of the priorities we focus on. Of course, we also take the environment and living conditions into account. We award the Green Label quality mark to the products that make a significant contribution to sustainability. For example, the Triomatic automatic feeding system is equipped with a unique cutting system that requires less power than a routing cutter, so it consumes less electricity.
The stationary mixers also meet the Green Label quality mark criteria thanks to the electric motors. You can recognize the Green Label machines by the green sticker.

Our feed mixers offer more than just feeding technology; they also address animal welfare, cost savings and reduced fuel consumption.

SOLOMIX 1 STAT VL

250 - 490 ft³ (7 - 14 m³) with chain conveyor or side discharge door

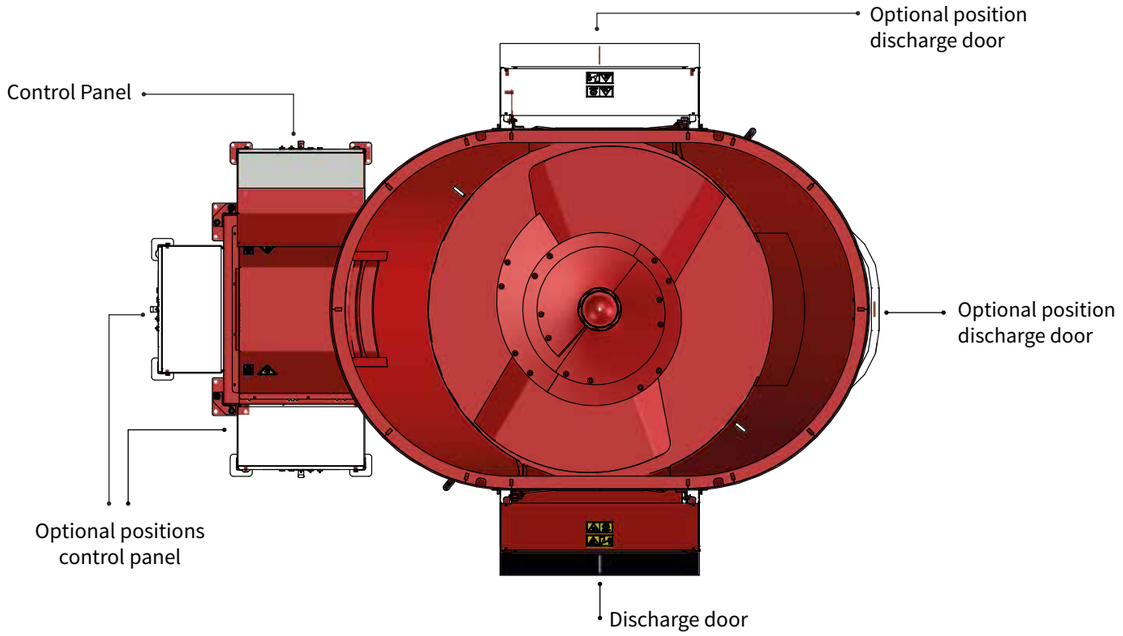


SOLOMIX 1 STAT VL TECHNICAL SPECIFICATIONS

Solomix 1 STAT VL	700 VL	1000 VL	1200 VL	1400 VL
Discharge	1 discharge door in the rear center opposite the drive side			
Capacity ft³ (m³)	250 (7)	350 (10)	420 (12)	490 (14)
Length (excl. motor) ft (m)	10' 4" (3.15)	11' 4" (3.46)	11' 7" (3.52)	12' 5" (3.78)
Length (incl. motor) ft (m)	13' 5" (4.09)	14' 1" (4.27)	13' 12" (4.26)	14' 2" (4.31)
Width ft (m)	7' 1" (2.15)	7' 6" (2.29)	7' 7" (2.30)	8' (2.44)
Height ft (m)	6' 10" - 7' 10" (2.08 - 2.38)	8' 1" - 9' (2.45 - 2.75)	8' 9" - 9' 8" (2.65 - 2.95)	8' 10" - 9' 10" (2.70 - 3.00)

SOLOMIX 1 STAT ZK

250 - 490 ft³ (7 - 14 m³) with chain conveyor or side discharge door

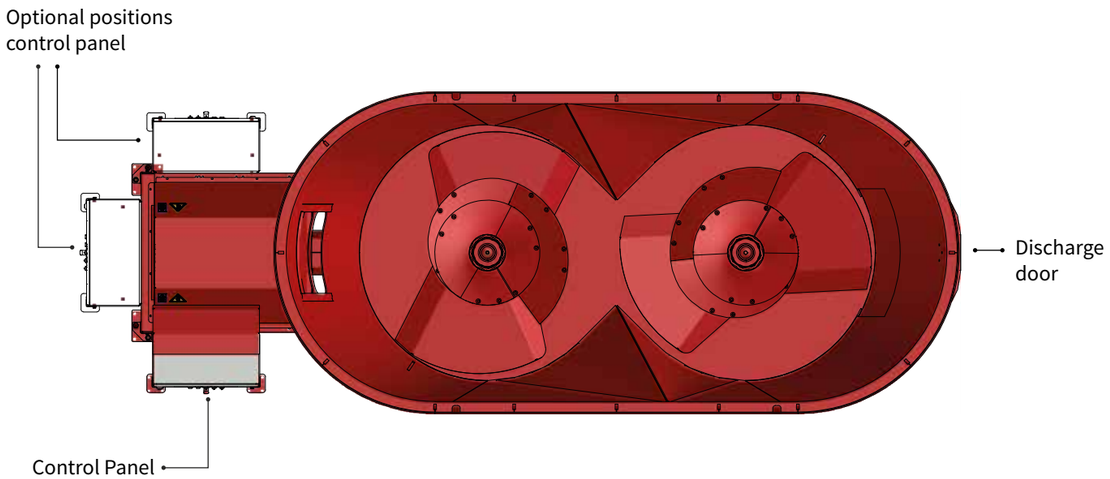


SOLOMIX 1 STAT ZK TECHNICAL SPECIFICATIONS

Solomix 1 STAT ZK	700 ZK	1000 ZK	1200 ZK	1400 ZK
Discharge	1 side discharge door on right with respect to drive end			
Capacity ft³ (m³)	250 (7)	350 (10)	420 (12)	490 (14)
Length (excl. motor) ft (m)	9' 7" (2.91)	10' 11" (3.32)	11' 3" (3.43)	12' 5" (3.78)
Length (incl. motor) ft (m)	12' 8" (3.85)	13' 6" (4.12)	13' 9" (4.18)	14' 2" (4.31)
Width ft (m)	7' 3" (2.22)	7' 10" (2.38)	7' 10" (2.38)	8' (2.44)
Height ft (m)	6' 10" - 7' 10" (2.08 - 2.38)	8' 1" - 9' (2.45 - 2.75)	8' 9" - 9' 8" (2.65 - 2.95)	8' 10" - 9' 10" (2.70 - 3.00)

SOLOMIX 2 STAT VL

420 - 990 ft³ (12 - 28 m³) with one or more chain conveyors or side discharge doors

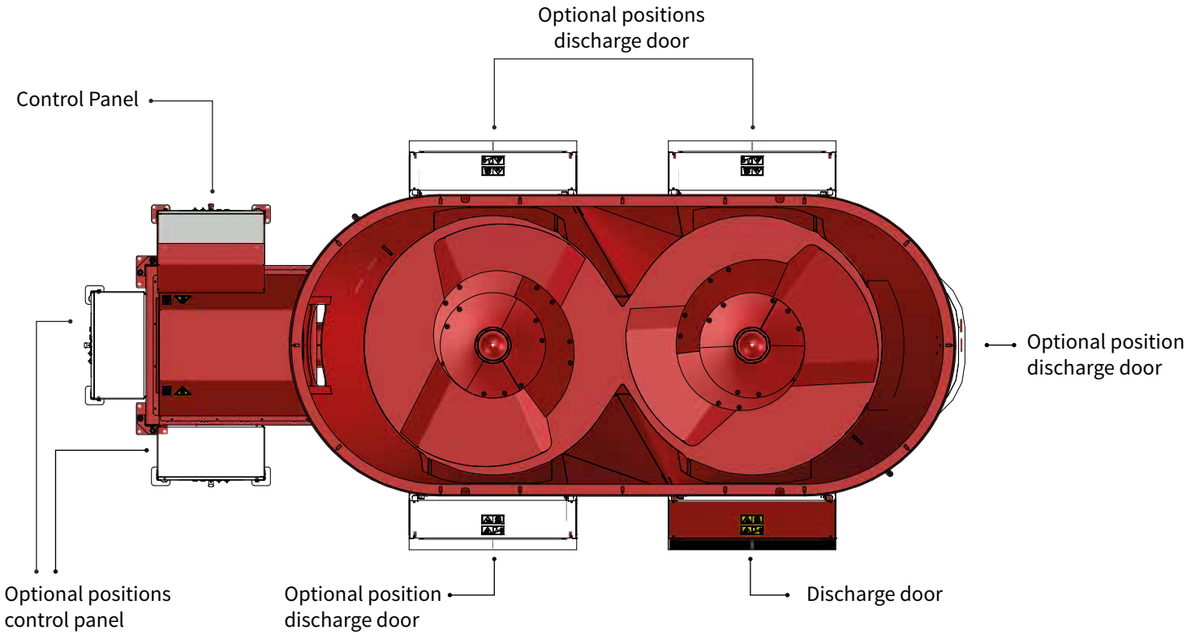


SOLOMIX 1 STAT VL TECHNICAL SPECIFICATIONS

Solomix 2 STAT VL	1200 VL	1600 VL	2000 VL	2000 VL	2400 VL	2800 VL
Discharge	1 discharge door in the rear center opposite the drive side					
Capacity ft³ (m³)	420 (12)	570 (16)	710 (20)	710 (20)	850 (24)	990 (28)
Length (excl. motor) ft (m)	13' 11" (4.25)	15' 1" (4.60)	17' 2" (5.22)	18' 4" (5.58)	18' 9" (5.72)	19' 4" (5.89)
Length (incl. motor) ft (m)	24 ' 3" (7.39)	28' 4" (8.63)	28' 4" (8.63)	21' 8" (6.60)	21' 8" (6.60)	22' 2" (6.75)
Width ft (m)	7' 1" (2.15)	7' 6" (2.29)	8' (2.44)	8' 2" (2.49)	8' (2.44)	9' (2.75)
Height ft (m)	8' 4" - 9' 4" (3.08 - 3.38)	9' 4" - 10' 4" (2.55-2.85)	9' 4" - 10' 4" (2.85 - 3.15)	8' 4" - 9' 4" (2.85 - 3.15)	9' 1" - 10' 1" (2.55 - 2.85)	10' 1" - 11' 1" (2.77 - 3.07)

SOLOMIX 2 STAT ZK

420 - 990 ft³ (12 - 28 m³) with one or more chain conveyors or side discharge doors

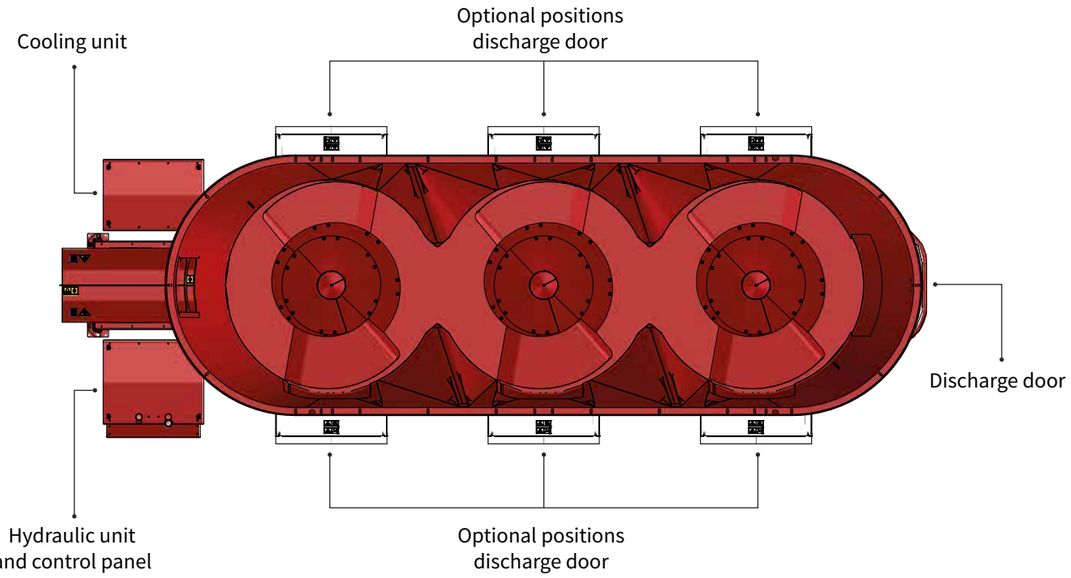


SOLOMIX 1 STAT ZK TECHNICAL SPECIFICATIONS

Solomix 2 STAT ZK	1200 ZK	1600 ZK	2000 ZK	2000 ZK	2400 ZK	2800 ZK
Discharge	1 side discharge door on right with respect to drive end					
Capacity ft³ (m³)	420 (12)	570 (16)	710 (20)	710 (20)	850 (24)	990 (28)
Length (excl. motor) ft (m)	14' 11" (4.55)	16' 6" (5.04)	17' 4" (5.29)	18' 4" (5.58)	18' 9" (5.72)	20' 4" (6.20)
Length (incl. motor) ft (m)	18' 3" (5.57)	20' 4" (6.20)	20' 9" (6.32)	21' 8" (6.60)	21' 8" (6.60)	23' 11" (7.28)
Width ft (m)	7' 3" (2.20)	7' 3" (2.30)	7' 9" (2.35)	7' 6" (2.29)	8' (2.44)	8' 10" (2.68)
Height ft (m)	7' 1" - 8' 1" (2.17 - 2.47)	8' 4" - 9' 4" (2.55 - 2.85)	9' 4" - 10' 4" (2.85 - 3.15)	8' 4" - 9' 4" (2.55 - 2.85)	9' 1" - 10' 1" (2.77 - 3.07)	9' 1" - 10' (2.75 - 3.05)

SOLOMIX 2 AND 3 STAT VL HEAVY DUTY

1130 - 1840 ft³ (32 - 52 m³) with one or more extension chains or side discharge doors



SOLOMIX 2 AND 3 STAT VL HD TECHNICAL SPECIFICATIONS

Solomix 2 and 3 STAT VL HD	2 3200 VL	3 3600 VL	3 4600 VL	3 5200 VL
Discharge	1 discharge door in the rear center opposite the drive side			
Number of mixing augers	2	3	3	3
Capacity ft³ (m³)	1130 (32)	1270 (36)	1620 (46)	1840 (52)
Length (excl. motor) ft (m)	21' 6" (6.56)	25' 11" (7.90)	28' 4" (8.63)	30' 6" (9.30)
Length (incl. motor) ft (m)	25' 2" (7.67)	28' 11" (8.81)	30' 5" (9.27)	33' 2" (10.10)
Width ft (m)	9' 2" (2.80)	6' 7" (2.00)	9' 9" (2.97)	9' 9" (2.97)
Height ft (m)	9' 1" - 10' (2.75 - 3.05)	9' 4" - 10' 4" (2.85 - 3.15)	9' 5" - 10' 5" (2.87 - 3.17)	9' 6" - 10' 6" (2.90 - 3.20)

TRIOLIET
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Trioliet. Designed for you.

08/21