



Product catalogue – Barn technology for dairy farms

Practical system solutions for stalls, manure engineering and feeding



Expertise and automation in all areas

With technical expertise in areas such as milk production with conventional and automated milking systems, automated feeding systems, storage technology and manure engineering, as well as a complete range of barn equipment, GEA can offer you everything you need to ensure the long-term success of your dairy farm.

The range of comprehensive system solutions for livestock management also includes prompt service and hygiene treatments.



Systems for all areas of livestock management

Regardless of your management style or farm layout, we can find the perfect solution. Consulting, planning, installation and maintenance for all areas of milk production is carried out by our own professionals, who are all VDMA-certified milking service technicians.

Because who better to service the equipment, than the people who designed all of the elements to work together, and created and installed the entire operational concept? Everything is included in our complete solutions, from designing and planning the barn and operational concept to day-to-day herd and farm management. GEA focuses on product innovation and the latest trends in technology. We can provide our customers with perceptibly higher added value and improved efficiency levels, helping them achieve the highest possible standards of productivity.



FIND OUT MORE

about our services – the GEA specialist centres are always happy to help.



This Farm Equipment catalogue is designed to give you a glimpse into our current range of barn equipment for dairy farms. The following pages provide information on products and systems in the areas of barn equipment, hygiene, cleaning, feeding, manure processing and engineering that all ensure greater comfort and convenience for both your animals and your employees.

GEA has decades of experience in the fields of barn equipment and manure engineering and its ranges all meet the highest quality standards. Through our developments, we repeatedly establish benchmarks and provide new solutions for improvements in ecology, economy and animal-friendly husbandry.

The breadth and depth of our range is much greater than just the products shown in this catalogue. So, please also take advantage of the experience of our sales consultants at your local GEA specialist centre. Not only will you always receive reliable advice, but we will also visit you on your farm. Plan your new projects with GEA right on your own premises. Together we will find effective solutions for a successful, cost-effective and demand-oriented application based on your individual requirements.

Welcome to GEA!

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FURTHER INFORMATION

on the latest GEA innovations can
also be found at gea.com



THE PRODUCT PORTFOLIO features a range of individual cubicle division solutions to suit the needs of every farm.



Barn equipment – Resting in the barn

When selecting cubicles for your cows, the animals' well-being and efficient use of the stall are equally important. You also have to be aware of legal regulations which define the minimum space requirements. GEA cubicles are designed to not only help you to make maximum use of the space available, but also increase the standards of comfort for the cow.

Our cubicles are designed to accommodate the natural movement patterns of the cows and to ensure that hygiene measures can be carried out unrestricted. Results show that using GEA cubicles can increase and consolidate yields. We

have taken the following measures to ensure that the cubicles accommodate the cows' natural movement patterns:

- **Space for forward movements** – plenty of room at the front to ensure unrestricted movement, particularly when standing up
- **Freedom from barriers** – an unobstructed design at the front avoids knocks
- **Animal-friendly guidance** – with a knee barrier and perfectly positioned neck bar
- **Safety** – non-slip surface for secure footing
- **Protection for the joints** – a soft surface to lie on that prevents bruising and joint injuries

Recommended dimensions for cubicle divisions

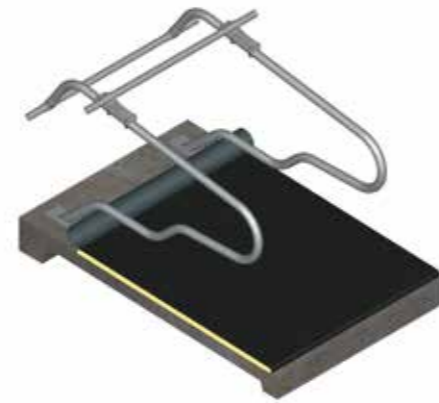
Age in months	Product	Recommended length single row		Minimum length single row	Recommended length of double row	Minimum length of double row	Center to center cubicle width	
		Wall row	Single row				US	Comfort
> 22 months	2-D Optima	> 280-305 cm	> 250 cm	235 cm	> 500-550 cm	460 cm	± 115-132 cm	± 110-132 cm
	Other cubicles	> 280-305 cm	> 250 cm	220 cm	> 500-550 cm	430 cm	± 115-132 cm	± 110-132 cm

2-D Optima

2-D Optima – Optimum animal comfort

The 2-D Optima cubicle division provides excellent freedom of movement at the front and sides, as well as controlled animal guidance. Top-quality manufacturing techniques are used to ensure its durability, and its simple installation process makes it the preferred form of stall equipment for renovation projects. The unique Optima curve ensures that the cow finds its most

comfortable position. Neither front bars nor stanchions restrict the cow's forward movement when it stands up. The 2-D Optima cubicle division is also available in a US version which prevents the cows from lying at an angle. We recommend installing a long clamping plate.



Your benefits at a glance:

- More space for sideways movements
- Optima curve for controlled animal guidance
- Simple assembly: ideal for barn renovation projects
- Can be combined with any top mat – minimum cubicle length of 220 cm
- Suitable for high and deep cubicles
- Also available in High Neckrail version

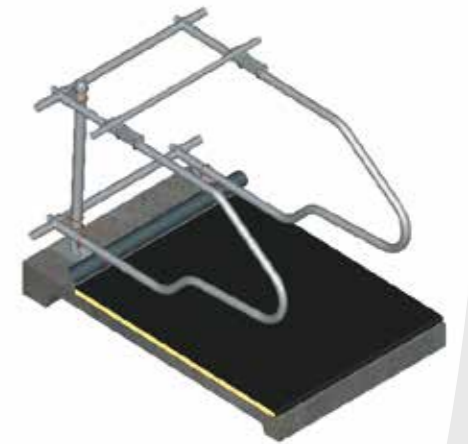


Combi Comfort

Combi Comfort – Flexible solution

Depending on their configuration, stalls with deep litter or sand beds may require cubicle divisions. Both the height and width of the Combi Comfort reversible arm is adjustable, and it is available in both standard and High Neckrail versions. This gives you greater flexibility when it comes to cubicle design and provides increased comfort for the animals. It can be mounted

on a single beam, on horizontal bars or direct on support posts. The Combi Comfort cubicle division also benefits from all of the durability features of our product line. Available in double or single row versions. Knee barrier and nylon neck-strap optional. We recommend installing a long clamping plate.



Your benefits at a glance:

- Reversible arm: can be used as either a US or Comfort curve
- Flexible assembly: adjustable width and height
- Hygienic: self-supporting assembly
- Suitable for high and deep cubicles
- Simple resting mat installation
- Optional: knee barrier and nylon neck-strap
- Ideal for deep litter and sand beds



Wave shoulder bar

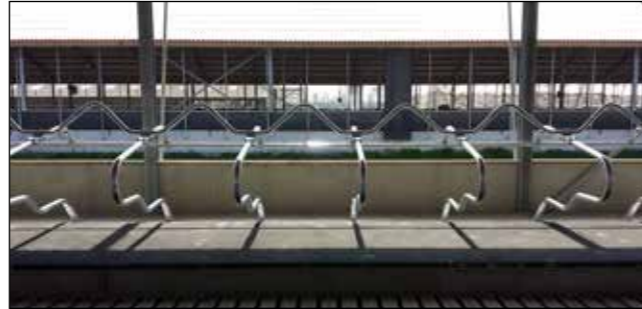
Wave shoulder bar – for the resting area

The wave shoulder bar is designed for use in free barns. Cows that lie straight and are correctly positioned to the rear side of the cubicle stay cleaner and cause less disturbance to their neighbours. This makes the barn calmer and more hygienic, and also reduces the farmer's workload. When combined with a GEA cubicle division, the wave shoulder bar ensures that cows are guided into a straight position in the stall. This is the optimum position for them to lie down from.

Using a wave shoulder bar also increases the animals' freedom of movement. Wave shoulder bar allows the shoulder-height/diagonal neck bar to be raised by approximately 30 cm. This makes it perfect for smaller cubicles, for example when a barn is converted. The waved neck bar is available for a variety of

cubicle widths. You can also combine various sizes to achieve the perfect dimensions.

A shoulder bar consists of four components: universal starting section, middle section (available for a variety of cubicle widths), universal end section and a connector.



Cubicle Divisions accessories

There are numerous accessories available for our cubicle division. On this page you will find a selection of our range. Our dealer can provide you with information about prefabricated solutions.





Bedding Systems

Cow comfort and well-being is increasingly drawing more attention. The advantages are evident both from a social point of view and also an economical one. A well-rested cow also ruminates more efficiently, is able to produce more milk and is able to rest its feet and legs. Essential in a bedding system is the amount of grip it provides. This means that the cow will feel much more confident lying down and standing up.

In addition, the design has to be rugged and therefore able to withstand many years of intense use. GEA bedding systems are the result of over 20 years of experience in cow mattress systems.

Durasoft

The Durasoft bedding system is a combination of a topcover-SBR and a PU-foam mattress and it is also available for youngstock.



Your benefits at a glance:

- Surface texture agreeable for the cow's skin
- Reinforced fabric for strength and flexibility
- Industrial-quality natural rubber – SBR (Styrene Butadiene Rubber)
- Supplied on a roll
- Liquid-proof
- Durasoft is topcover-SBR combined with high quality PU-foam mattress
- Topcover width, 200 cm; thickness, 3.2 mm
- Breaking strength reinforced fabric, 200 kgf/cm
- Specific density of foam, 180 kg/m³
- Mattress thickness, 40 mm; width, 100 cm; length, 180 cm
- DLG awarded



Features	Advantages	Benefits
Nonslip texture	<ul style="list-style-type: none"> • More grip standing up • Holds sawdust • Pleasant for cows' skin 	<ul style="list-style-type: none"> • Cow can stand up easier, so will lie down more often to rest • Dries better • Cow comfort
Fiber reinforced	<ul style="list-style-type: none"> • Makes topcover both elastic and strong 	<ul style="list-style-type: none"> • More benefit from mattress through this flexibility • Durability
Styrene butadiene rubber	<ul style="list-style-type: none"> • Industrial quality 	<ul style="list-style-type: none"> • Durability • Consistent quality
PU-foam mattress	<ul style="list-style-type: none"> • Chemical mechanical integrity • Density 180 kg/m³ • High elasticity 	<ul style="list-style-type: none"> • Durability • Comfortable resting, grip standing up • Minimum distortion

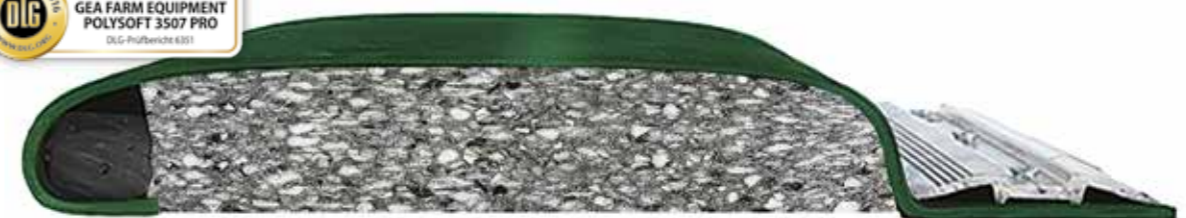
Polysoft

The Polystoft bedding system is a combination of a topcover-PVC and a PU-foam mattress.



Your benefits at a glance:

- Surface texture agreeable for the cow's skin
- Reinforced fabric for strength and flexibility
- Industrial-quality natural rubber – SBR (Styrene Butadiene Rubber)
- Supplied on a roll
- Liquid-proof
- Durasoft is topcover-SBR combined with high quality PU-foam mattress
- Topcover width, 200 cm; thickness, 3.2 mm
- Breaking strength reinforced fabric, 200 kgf/cm
- Specific density of foam, 180 kg/m³
- Mattress thickness, 40 mm; width, 100 cm; length, 180 cm
- DLG awarded



Features	Advantages	Benefits
Smooth texture	<ul style="list-style-type: none"> • Pleasant for cows' skin 	<ul style="list-style-type: none"> • Cow comfort
Fiber reinforced	<ul style="list-style-type: none"> • Makes topcover both elastic and strong 	<ul style="list-style-type: none"> • More benefit from mattress through this flexibility • Durability
Polyvinyl chloride	<ul style="list-style-type: none"> • Industrial quality 	<ul style="list-style-type: none"> • Durability • Consistent quality
PU-foam mattress	<ul style="list-style-type: none"> • Chemical mechanical integrity • Density 180 kg/m³ 	<ul style="list-style-type: none"> • Durability • Comfortable resting, grip standing up

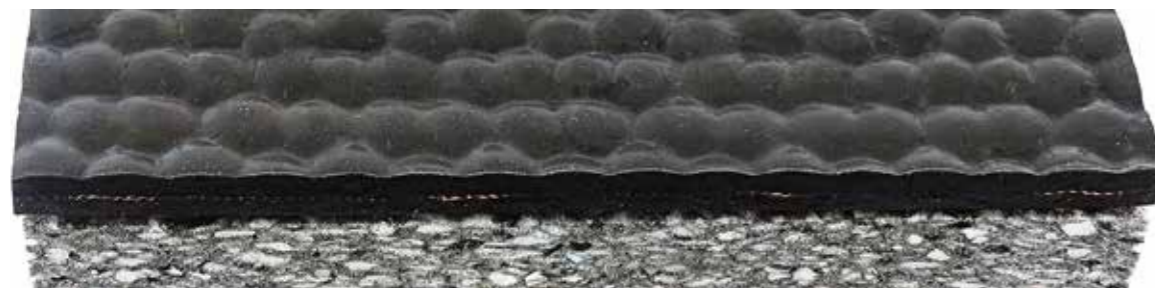
Gummysoft

The GEA Gummysoft bedding system is a combination of a topcover-SR and a PU-foam mattress.



Your benefits at a glance:

- Very comfortable for the cows to lie on
- Robust, thick and durable topcover made from moisture-resistant synthetic rubber
- Highly durability
- Topcover available 8 and 10 mm thicknesses
- Hygienic and easy to clean
- Mattress thickness, 25 mm; width, 100 cm; length, 150 cm
- Mattress made of PU-foam
- Specific density of foam 160 kg/m³



Features	Advantages	Benefits
Synthetic rubber	<ul style="list-style-type: none"> • 8 mm or 10 mm thickness • Industrial quality • Fiber reinforced 	<ul style="list-style-type: none"> • Durability • Consistent quality • For flexibility and strength
Hammertop texture	<ul style="list-style-type: none"> • Pleasant for cows' skin • Non slip 	<ul style="list-style-type: none"> • Cow comfort • More safety
PU-foam mattress	<ul style="list-style-type: none"> • Chemical mechanical integrity • Density 160 kg/m³ 	<ul style="list-style-type: none"> • Durability • Comfortable resting • Grip standing up

Duracomfort

The GEA Duracomfort bedding system is a combination of a topcover-SBR and a PE-foam mattress.



Your benefits at a glance:

- Surface texture agreeable for the cow's skin
- Reinforced fabric for strength and flexibility
- Industrial-quality natural rubber – SBR (Styrene Butadiene Rubber)
- Supplied on a roll
- Liquid-proof
- Duracomfort is topcover-SBR combined with economically priced PE-foam
- Topcover width, 200 cm; thickness, 3.2 mm
- Breaking strength reinforced fabric, 200 kgf/cm
- Specific density of foam, 120 kg/m³
- Mattress thickness, 45 mm; width, 100 cm; length, 180 cm



Features	Advantages	Benefits
Nonslip texture	<ul style="list-style-type: none"> • More grip standing up • Holds sawdust • Pleasant for cows' skin 	<ul style="list-style-type: none"> • Cow can stand up easier, so will lie down more often to rest • Dries better • Cow comfort
Fiber reinforced	<ul style="list-style-type: none"> • Makes topcover both elastic and strong 	<ul style="list-style-type: none"> • More benefit from mattress through this flexibility • Durability
Styrene Butadiene Rubber	<ul style="list-style-type: none"> • Industrial quality 	<ul style="list-style-type: none"> • Durability • Consistent quality
PU-foam mattress	<ul style="list-style-type: none"> • Chemical mechanical integrity • Density 120 kg/m³ 	<ul style="list-style-type: none"> • Durability • Comfortable resting, grip standing up • Liquid proof

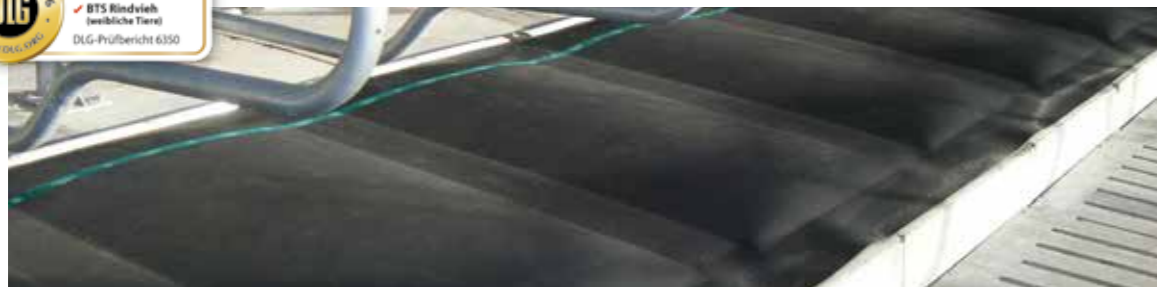
Akwasoft

The GEA Akwasoft bedding system is a combination of a Synthetic rubber filled with water.



Your benefits at a glance:

- Skin-friendly surface texture
- Combination of flexible rubber and soft water bed ensures that cows always have enough grip to stand up and lie down
- Reinforced fabric increases durability and flexibility and water-filling reduces pressure on the joints
- Supplied on a roll
- Liquid proof
- Area stays dry because the beds return to their normal shape and drain automatically
- DLG awarded
- Available for beds 110 - 112.5 - 115 - 120 - 125 cm



Features	Advantages	Benefits
Nonslip texture	<ul style="list-style-type: none"> • More grip standing up • Holds sawdust • Pleasant for cows' skin 	<ul style="list-style-type: none"> • Cow can stand up easier, so will lie down more often to rest • Dries better • Cow comfort
Fiber reinforced	<ul style="list-style-type: none"> • Makes topcover both elastic and strong 	<ul style="list-style-type: none"> • More benefit from mattress through this flexibility • Durability
Styrene butadiene rubber	<ul style="list-style-type: none"> • Industrial quality 	<ul style="list-style-type: none"> • Durability • Consistent quality
Water	<ul style="list-style-type: none"> • Adapts itself to the cow • Absorbs warmth 	<ul style="list-style-type: none"> • Comfortable resting, grip standing up • No permanent distortion • Cooling effect

Gummystuds GS33

GEA Gummystuds GS33 is a bedding system with thick rubber mats with various size studs.

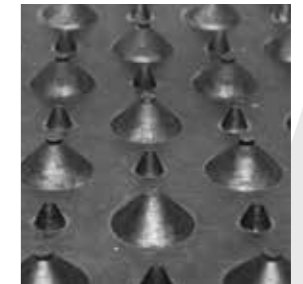
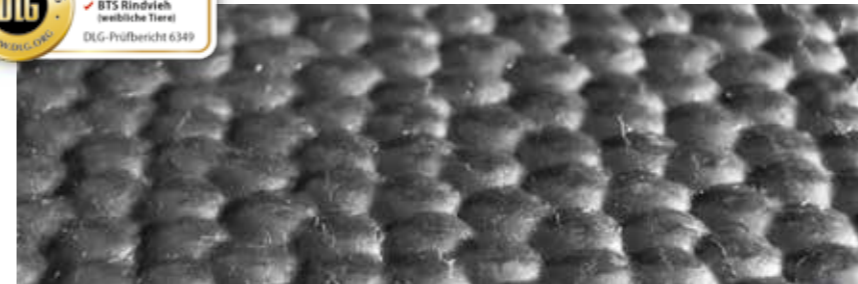
Gummystuds GS33 offers perfect comfort without a foam mattress. The combination of 12 and 20 mm thick studs gives it a soft, comfortable surface. In DLG focus testing, this covering

reached a “++” - the best possible score for ductility and elasticity The 190 cm width surface has a slight slope on both outer sides, for better hygiene and durability.



Your benefits at a glance:

- High durability because of the thick and high quality rubber
- Closed surface without joints for better cleaning
- Easy installation because it is supplied on rolls and therefore one system
- High stability due to own weight - there will be no folding of the mats when the cows are lying down
- Surface texture agreeable for the cow's skin
- Reinforced fabric for strength and flexibility
- DLG awarded



Upside

Downside

Features	Advantages	Benefits
Synthetic rubber	<ul style="list-style-type: none"> • a 13 mm thick back • Industrial quality • Fiber reinforced 	<ul style="list-style-type: none"> • Durability, cow comfort • Consistent quality • For flexibility and strength
Various studs (12 and 20 mm)	<ul style="list-style-type: none"> • More flexibility 	<ul style="list-style-type: none"> • Cow comfort • More grip standing up
Supplied on rolls	<ul style="list-style-type: none"> • No additional products needed 	<ul style="list-style-type: none"> • Easy to install • Low installation costs
Edge of the mat is in a slope	<ul style="list-style-type: none"> • Moisture can drain 	<ul style="list-style-type: none"> • Dry bedding

Gummystuds GS25

The GEA Gummystuds GS25 bedding system is a system with thick rubber mats with studs.

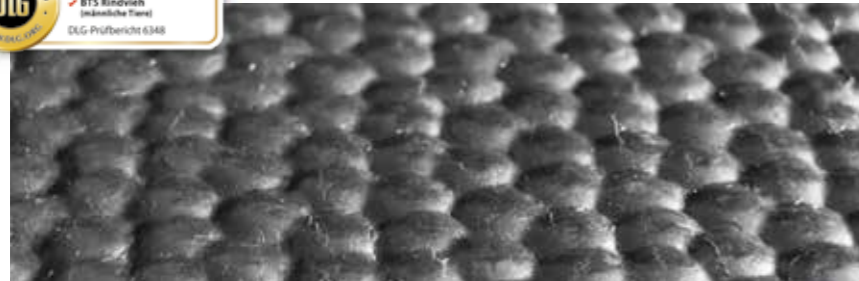
When it comes to bedding systems, this is an example of the perfect combination between durability and cow comfort. The studded profile at the bottom of the mat is offering comfort

and grip whereas the 13 mm massive rubber back ensures the longevity.

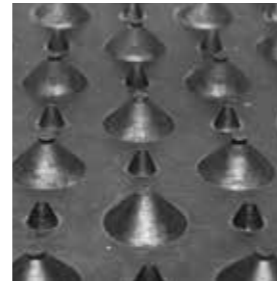


Your benefits at a glance:

- High durability because of the thick and high quality rubber
- Closed surface without joints for better cleaning
- Easy installation because it is supplied on rolls and therefore one system
- High stability due to own weight - there will be no folding of the mats when the cows are lying down
- Surface texture agreeable for the cow's skin
- Reinforced fabric for strength and flexibility
- DLG awarded



Upside



Downside

Features	Advantages	Benefits
Synthetic rubber	<ul style="list-style-type: none"> • a 13 mm thick back • Industrial quality • Fiber reinforced 	<ul style="list-style-type: none"> • Durability, cow comfort • Consistent quality • For flexibility and strength
Studs (12 mm)	<ul style="list-style-type: none"> • For flexibility 	<ul style="list-style-type: none"> • Cow comfort • More grip standing up
Supplied on rolls	<ul style="list-style-type: none"> • No additional products needed 	<ul style="list-style-type: none"> • Easy to install • Low installation costs

Gummystuds GS20

GEA Gummystuds GS20 is a bedding system with thick rubber mats with studs.

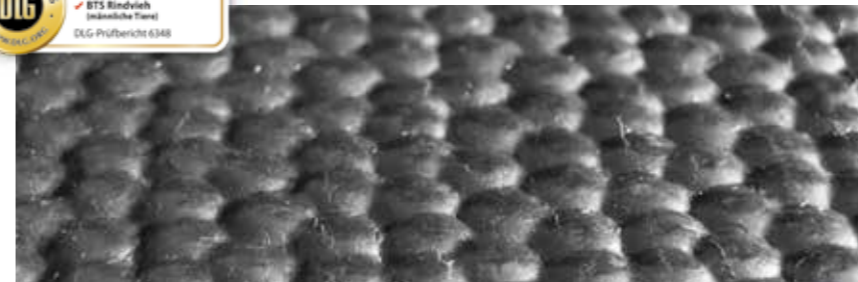
Gummystuds GS20 is available in different widths and therefore most suitable for youngstock. It has a typical studded profile at the bottom and offers sufficient comfort and grip.

Age	Recommend width
Until 6 months	1300 mm
6 to 12 months	1500 - 1600 mm
12 to 18 months	1700 mm
>18 months	1800 - 1900 - 2000 mm

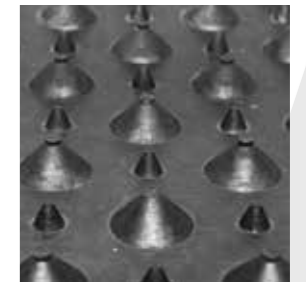


Your benefits at a glance:

- Most suitable for youngstock because of the different widths
- High durability because of the thick and high quality rubber
- Closed surface without joints for better cleaning
- Easy installation because it is supplied on rolls and therefore one system
- High stability due to own weight - there will be no folding of the mats when the cows or youngstock are lying down
- Surface texture agreeable for the cow's skin
- Reinforced fabric for strength and flexibility
- DLG awarded



Upside



Downside

Features	Advantages	Benefits
Synthetic rubber	<ul style="list-style-type: none"> • a 10 mm thick back • Industrial quality • Fiber reinforced 	<ul style="list-style-type: none"> • Durability, cow comfort • Consistent quality • For flexibility and strength
Studs (10 mm)	<ul style="list-style-type: none"> • For flexibility 	<ul style="list-style-type: none"> • Cow comfort • More grip standing up
Supplied on rolls	<ul style="list-style-type: none"> • No additional products needed 	<ul style="list-style-type: none"> • Easy to install • Low installation costs
Various widths available	<ul style="list-style-type: none"> • 1300, 1500, 1600, 1700, 1800, 1900 and 2000 mm 	<ul style="list-style-type: none"> • For different age categories

Comparison of bedding features

Systems for dairy cows older than 18 months



	Durasoft	Polysoft	Gummysoft	Duracomfort
Grip	++++	+++	++	++
Comfort	+++	+++	++	++
Hygiene	+++	++	+	+++
Durability	++	+	+++	++

+ means sufficiently / ++++ means excellent



	Akwasoft	Gummystuds GS33	Gummystuds GS25	Gummystuds GS20
Grip	+++	++	+	+
Comfort	+++	++	+	+
Hygiene	+++*	+	+	+
Durability	+++	++++	++++	+++

+ means sufficiently / ++++ means excellent

Systems for dairy cows younger than 18 months



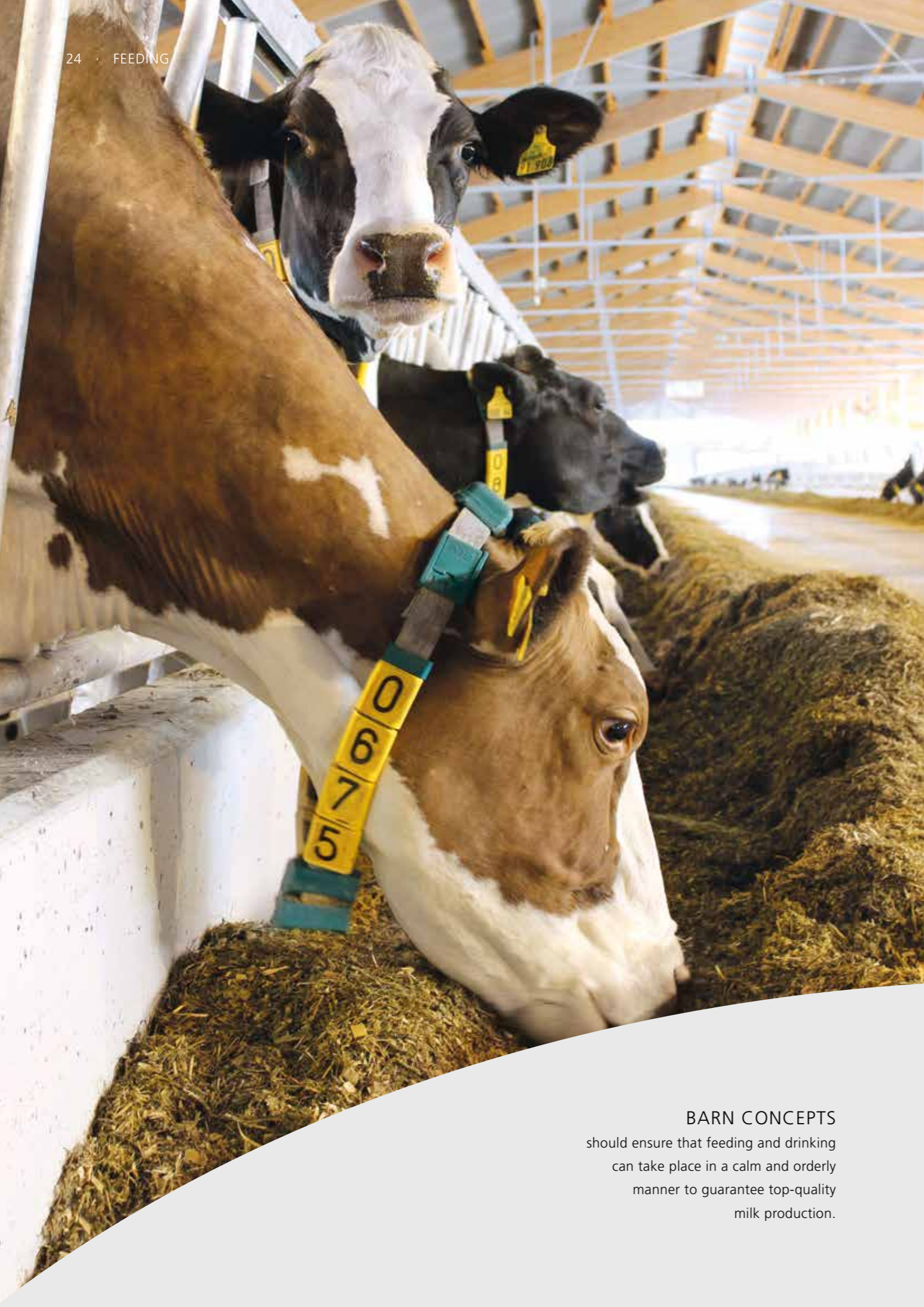
	Durasoft	Gummystuds GS20
Grip	++++	+
Comfort	+++	+
Hygiene	+++	+
Durability	++	+++

+ means sufficiently / ++++ means excellent

Legend

- Grip: Combination of surface topcover and subsurface
- Comfort: Comfort for laying, standing and laying down
- Hygiene: Capacity to hold bedding material
*no bedding material required
- Durability: Combination of durability of the topcover and/or durability system





BARN CONCEPTS
should ensure that feeding and drinking
can take place in a calm and orderly
manner to guarantee top-quality
milk production.



Feeding

The feeding range includes reliable water supply products and high-quality feed fences, as well as efficient solutions for automated feeding. GEA provides a top-quality range of products for all of the major procedures on the farm, including automated feed systems, a range of feed fences, and systems that ensure a constant, clean fresh water supply.

Prepare your barn for the future with the automated feed supply systems. This pioneering technology is reliable, efficient and saves time.

And it doesn't stop there. The optimized feed mixing, weighing and distribution features, and clear savings in effective working time in this area, make a significant contribution to efficient and profitable milk production.

Feed fences

Twist&Lock – self-locking safety feed fences

The unique Twist&Lock feed fence from GEA enables individual animals to be held in place by using a rotary knob. Individual animals can be separated from the other animals comfortably and without the herd scattering. Twist&Lock also features

bronze bearings to ensure a long service life and an overhead profile for simple operation and maintenance. Similar to all feed fences in the GEA range, the Twist&Lock is also very animal-friendly and prevents injuries from occurring.



Your benefits at a glance:

- Animal friendly: ergonomic unobstructed design
- Better and more secure animal separation: hold individual animals in place with a rotary knob
- Long service life: bronze bearings
- Simple assembly and maintenance: modular design
- Very quiet

Twist&Lock self-locking function

When the lever is in the self-locking position, the push buttons on the Twist&Lock safety feed fence are released and raised upwards. The hinged pole is locked in position when the cow puts its head through the head section and bends down towards the feed.



Unlocking function for individual cows

Cows can be released individually by using the push button.



If necessary, individual cows can be held in place by activating the twist-lock on an individual feeding station, while the rest of the group is released.



Twist&Lock in detail and unique Lock in

Release animals individually with the Twist&Lock function.



Very animal-friendly, rounded pivot point. Bronze bearing bushings for many years of wear-free operation individual feeding station, while the rest of the group is released.



Available with or without a central locking function. The feed fence is tailored to your needs.

Feed fences

Classic – self-locking feed fences

The classic self-locking feed fences from GEA are robust, spacious and have a 2" (60 mm) lower bar. They are very easy to operate via the upper profile from a central position up to 40 metres away. The plastic caps on the locking rods ensure that the fences make very little noise. Animals can be released

individually at the press of a button. The feed fences can be fixed to either stanchions or rafters as required using the assembly material, and each one can be extended by up to 20 cm.



Your benefits at a glance:

- Classic design: robust, spacious, quiet
- Convenient to use: can be controlled centrally from up to 40 m away
- Each feeding station can be unlocked individually



Swedish-Lock – self-locking feed fences

The Swedish self-locking feed fence from GEA was specifically developed for large cattle breeds. Depending on the model, it is also suitable for cattle breeds with horns. The frames are made from robust tubing with a diameter of 57 mm. The rounded ends provide easy access to the fence, even for smaller animals.

The animals can be managed flexibly as the central control system allows you to release them individually. The locking lever is made from 1 1/4" tubing (42 mm diameter) and is equipped with collar protection.



Your benefits at a glance:

- Robust and sturdy: 57 mm diameter tubing for large animals
- Variety of installation options: can be mounted on stanchions or rafters
- Good access to feed: even for smaller animals



Feed fences

Diagonal feed fences

The diagonal feed fence from GEA forms a solid division between the animals' movement and feeding areas and the feeding lane. The animals are separated from each other for feeding without excessive crowding, and can be fed with minimal feed loss, just as effectively as with a feed bar. The diagonal feed fence is available for calves, young cattle and large cattle.



Your benefits at a glance:

- Durable: sturdy design made from robust steel tubing
- Variety of installation options: can be mounted on stanchions or rafters
- Versatile: available for calves, young cattle and large cattle



Neck bar and Feeding table dividers

If you do not need to lock the animals in, the neck bars and feeding table divisions from GEA present an inexpensive alternative to more complicated feeding solutions. The animals benefit from greater freedom of movement during feeding.

Ensure that spacers are included when planning this open system. The neck bars and feeding table divisions from GEA have a sturdy design and are simple to install.



Alberta – feeding table division

The feed bar are the lowest-cost alternative from GEA: They allow the animals to move freely during feeding, are very robust and provide a simple means of escape for the animals. The lower bar on the Alberta feed bar can be pivoted slightly to reduce pressure in the neck area.



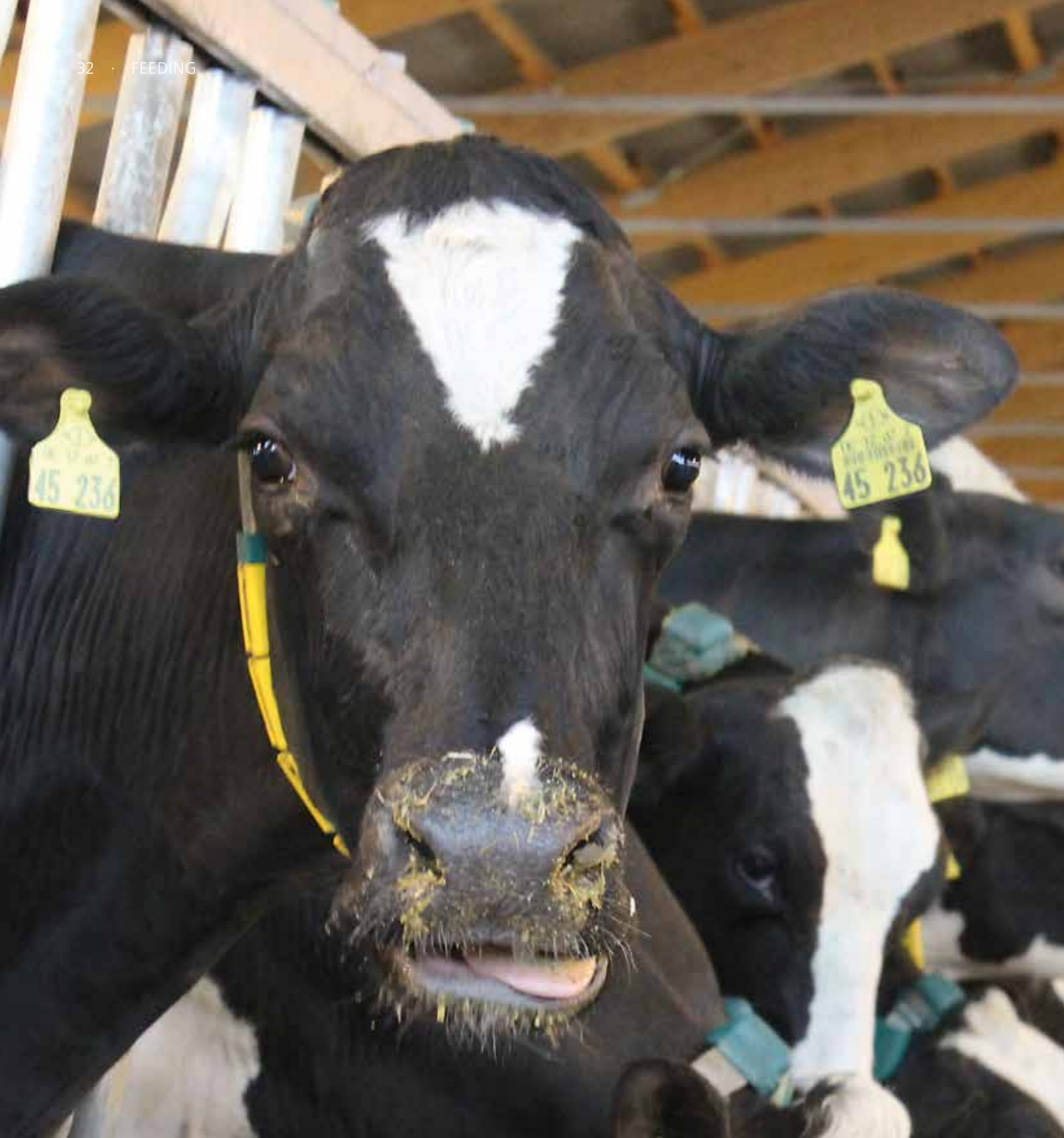
Your benefits at a glance:

- Freedom when eating
- Easy to install
- Robust and cost-effective

Feed fences accessories

There are numerous accessories available for our feed fences. On this page you will find a selection of our range. Our dealer can provide you with information about prefabricated solutions.





FEEDING CONCEPTS
should ensure that feeding and drinking
can take place in a calm and orderly
manner to guarantee top-quality
milk production.



Automated Feeding

GEA Automated feeding ensures that farms get the best from their animals as well as optimize their resources. Our automated feeding systems are carefully designed to take into consideration:

- Precision feeding
- Optimal cow health
- Comfortable working environment
- Positive impact on your cash flow



GEA automated feeding benefits:

- Reduction in feed wastage with improved feed utilization
- Simplification of animal management
- Optimized options for animal separation
- Improvement in the integration of heifers
- Minimization of fights for rank in the herd
- Reduction in bruises and marks
- Optimized feed mixing for various groups of animals
- Saves time on daily tasks

Mix&Carry with WIC

Feed management in the free shed

Leave it to the professionals: Mix&Carry with WIC is the reliable, automatic system that does it all, from weighing and mixing individual portions of raw feed to distributing the TMR rations onto the feeding table. In other words, it relieves the farmer and ensures complete productivity, so you can produce top-quality milk!

Fully automatic, effective feeding

You can design specific recipes for each individual group of animals. The user-friendly WIC control system gives you quick access to feeding schedules, ingredients, quantities and distribution settings.

Once you start it up, Mix&Carry with WIC weighs mixes and distributes the feed via the feed wagon completely independently. And it tells you everything it does in detail: Using an intensive herd management system, you can monitor the exact effect your new concept has on the herd to ensure it continues to work successfully.

Effective, flexible solutions

The battery-powered feed wagon runs constantly yet quietly,



distributing the precisely measured TMR rations to each of the various groups. The rail-mounted suspension system enables it to swing freely over the feeding tables while distributing the feed precisely on either one or both sides using a transverse conveyance system.

The design of the feeder makes it extremely flexible. At just 2 m wide, it is suitable for use with feed tables in older buildings or similar problematic environments. When setting up a new cow barn, the slimline system can save a great deal of space. Increase your productivity on a smaller area!



Your benefits at a glance:

- Rail-mounted and computer-controlled feeding system
- Minimal effort required to fill the feed bunkers
- Feed from bunkers mixed in stationary mixer
- Large capacity
- Feed can be delivered several times each day
- Feeding can be tailored to suit the needs of different groups
- Optimum feed utilization
- Feed wagon can distribute to both sides

MixFeeder with WIC

Let a part of your work be made easier in the future

The automated MixFeeder with WIC supplies your animals with freshly mixed, precisely measured rations around the clock. This enables each cow to perform to her full potential, and gives you more time to manage your animals and for activities outside of the barn.

Plan the best feed mix for your animals

Whether you have high-performance or non-lactating cows, calves or bulls, the MixFeeder WIC software enables you to set the ingredients and volumes for each performance group and plan the delivery frequency right from your computer. So each group gets the precisely tailored blend they need.

Healthier animals mean a healthier business

Having precisely measured rations delivered at intervals throughout the day keeps your animals active and helps them get the most out of their feed. This improves their general health, which in turn reduces treatment costs, increases milk yields and maximizes milk quality!

All the information you need, no matter where you are

While everything runs automatically in the barn, the WIC software (accessed via your PC, touch panel or smartphone) keeps you up to speed with continuous status updates. Wherever you are. So you have more free time to spend on other important activities.



Your benefits at a glance:

- Precise, tailored group feeding
- Healthy and high-performance cows mean maximum milk yields
- Flexible working environment with effective processes
- Simple and efficient feed management
- All of the information you need on a live display and via status updates to your smartphone
- Intelligent and optimal feeding routes



FreeStallFeeder with WIC

Optimized feed supplies for your animals

Optimized animal feed, increased yields, long-term growth or expansion of the herd, whatever ideas come to mind when thinking about TMR feeding, the FreeStallFeeder with WIC implements them directly on the feeding table. The rail-mounted feed carriage provides your herd with a precisely measured amount of feed – reliably and around the clock. This results in substantial daily savings on both time and labor. The system is compact, thereby reducing the costs of any extensions to your cowshed, and is also suitable for retrofitting. The FreeStallFeeder with WIC fetches the ingredients for the optimized energy feed for your herd directly from the stationary mixer. Quietly, and with amazing precision, it then uses its transverse conveyance system to distribute its contents onto one or both sides of the feeding table in a programmed cycle. You can use the computer control to define which group receives its TMR ration, at what time, how much and how often! Let your plans for the future run wild, the FreeStallFeeder with WIC will support you on the journey to producing top-quality milk!

Take advantage of the benefits of the FreeStallFeeder with WIC

By combining the FreeStallFeeder with WIC and TMR feeding strategies: energy and nutritional input can be divided amongst the groups and adjusted according to current performance, while selective feed intake can be avoided. Dispensing multiple times each day minimizes feed wastage and prevents over-feeding. The relaxed atmosphere in the cowshed is demonstrated by a well-emptied feeding table. Automated concentrated feed distribution gives you healthier animals for better quality milk. Also “feeding on a spot” for special-need cows is covered by the FreeStallFeeder.

Choose the right capacity for the size of your herd

The FreeStallFeeder with WIC is available in two sizes. Select the volume that best suits your farm, your herd and your personal plans – the M2000 or M3000.



Minimum effort required to fill the stationary feed mixer (volume span 6.5 – 30 m³).



Your benefits at a glance:

- Tailored feeding for each group, based on their needs
- Improved feed intake and utilisation by dispensing at frequent intervals
- Minimum effort required to fill the feed mixer
- Little space required, the feed table width can be reduced to 2m
- Safe, proven system
- Rail-mounted, computer-controlled
- Feed mixed in stationary mixer
- Feed wagon can distribute to both sides
- Feed can be delivered several times each day
- Large capacity
- Feeding on spot for sorted cows

BeltFeeder

BeltFeeder – the simple and reliable system

With the BeltFeeder you can take the first step towards automatic feed supply, a small but flexible solution with great financial benefits: The combination of a belt conveyor and a wire pulled plough permits small amounts of feed to be distributed several times a day to different animal groups.

And as long as the BeltFeeder is constantly distributing its load with perfect precision, the cows are happy to enjoy the fruits of its work: Consistent levels of feed intake and the subsequent improved utilization values soon become established as the norm in the calm cow barn atmosphere.

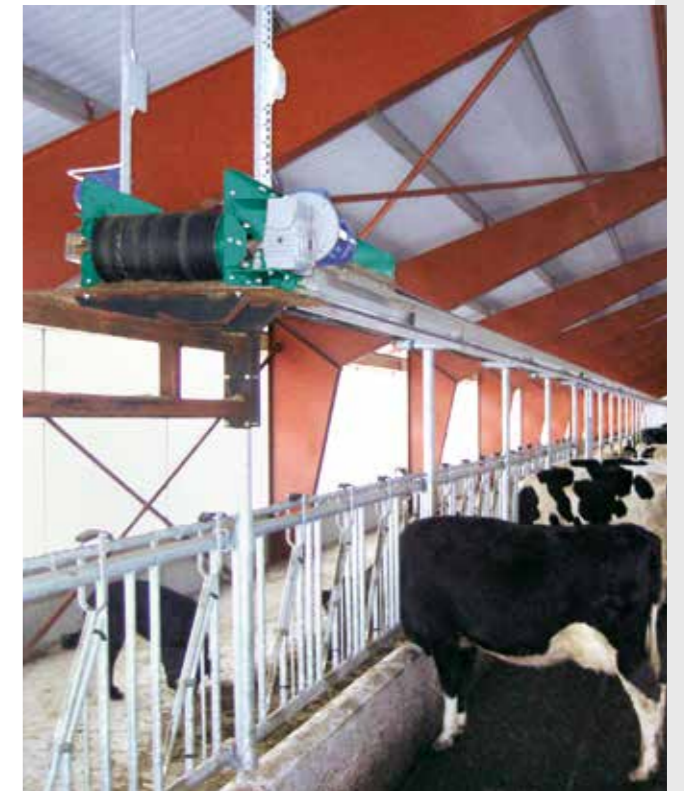
Frequent feed supply like clockwork

The length of the BeltFeeder can be flexibly adjusted to suit the local conditions and is able to bring its efficient way of working into the barn by the meter. Fixed either on a support construction or from the ceiling, the cable guided plough can supply both narrow and wide feed alleys.

The space-saving design also saves on investment costs. Start up automatic feed supply with the BeltFeeder: safe, simple and thoroughly economical.

Management with options

When it comes to controlling the belt feeding system, you have more options; choose the simple manual solution by pressing one button or get help from an automatic control to serve either



Your benefits at a glance:

- Space-saving belt feeding
- Robust and durable
- The carriage is guided along a steel cable
- Feed can be delivered several times each day

GM Feeding Bunker Series

GM Feeding Bunker Series (GM17, GM20, GM23)

The GM bunker series has been designed to handle raw feed material for automated feeding systems. The feed is dispensed by a base chain and a number of rollers to a conveyor belt, mixer or feed truck. In addition to the GM17, the GM bunker series has a complete concept that enables us to handle several types of raw feed materials and different volumes. This includes the GM23 and GM20 horizontal for loose material.

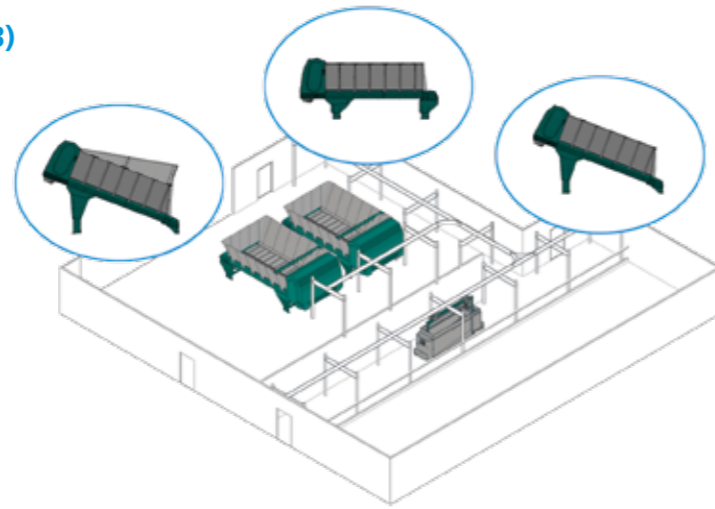
The GM bunker series is made of stainless steel for a long lifespan and the design reduces the accumulation of feed in critical parts and features easy access to the areas requiring service or maintenance.

Precise dosing

The GM bunker series comes with rollers specially manufactured to ensure even and precise dispensing. The precision of the dispensing has a direct impact in the accuracy of the ration amounts and proportions.

High-quality feed preservation

The modern design of the GM bunker series ensures that there is no feed accumulation at the edges, making the system self-cleaning in this regard. The GM bunker series utilizes the first-in



first-out principle in order to ensure that the bunker is always clean and provides fresh feed. In turn, fresh and frequent feed contributes to cow health.

High durability and serviceability

The GM bunkers series is primarily made of stainless steel to ensure high durability. Furthermore, the modern design provides easy access to areas that require servicing or maintenance.



Your benefits at a glance:

- Precise dosing
- High-quality feed preservation
- High durability and serviceability



MVM mixer

MVM mixer – the right mix is key

The powerful MVM vertical mixer is at the heart of every partially and fully automated feed supply system. It carefully mixes all the ingredients into a consistent feed mixture which provides your cows with valuable nutrients and additives for healthy, high-yield milk production. Now you just have to decide whether to fill the MVM mixer manually or integrate it seamlessly into a fully automated system. In either case, the MVM mixer reduces your workload drastically, while the feed carriage ensures that the herd is optimally fed.

The great asset of the MVM mixer is that it can break up almost all kinds of bales, round or square, while still maintaining the feed composition, whether it is hay, silage or straw. Augers within the mixing container turn quickly as they gently break the content into small pieces and mix it vigorously, using their special geometric design with five strong blades.



Your benefits at a glance:

- Improved quality of mixing
- Manage different types of material
- Reduce workload

Wireless Integrated Control (WIC) System

All the information you need, no matter where you are

While everything runs automatically in the barn, the WIC software (accessed via your PC, touch panel or smartphone) keeps you up to speed with continuous status updates. Wherever you are. So you have more free time to spend on other important activities.



Your benefits at a glance:

- Connects your raw feed stores and silos
- Manages individual process steps (precise measurement, consistent mixing to delivering perfectly tailored group feed rations)
- Calculates the shortest route from the filling position to the respective animal group





FRone – Automated Feed Pusher

Less work. Greater yields.



Intelligent technology is attractive, especially when it makes your work easier and saves valuable time. The fully automated feed pusher, FRone, by GEA moves feed towards the feed fence at the times you define and according to the routes you set. This ensures that your cows have access to fresh, high-quality feed around the clock – even lower-ranking animals in the second feeding group. And this in turn benefits you: as your animals' rumen health and general comfort improves, their milk yield increases. The FRone is a valuable addition to any dairy farm.

Precise processes ensure optimum feed utilisation

The FRone combines tried and tested technology with maximum precision and reliability. Regularly pushing the feed forwards ensures your animals can get the most out of the nutrition you provide – a welcome cost saving for your business.

Simple programming

The handy remote control enables you to program a 24 hour cycle of routes and start times to suit you and your animals, quickly and easily. And you can configure as many different routes as you like. There is also an additional option to clean the feed alley passageway.

Fast charging

The FRone can even charge itself: every time it completes a route, it returns to the charging station in the barn to recharge until the next programmed feed push.



The FRone returns to its charging station automatically and can leave the station either forwards or backwards.



Ihre Vorteile auf einen Blick:

- Saves more than 90 working hours per year (based on manual feed pushing for 5 minutes, 3 times per day)
- Higher milk yields (between 1% – 3%)
- Improved animal health
- More frequent use of the milking robot
- Payback time of 1 – 4 years
- Max. speed of 6 metres per minute
- Can operate for up to 19 hours per day (5 hours total charging time)
- For herds up to 2,000 cows
- Unlimited routes



Easy to program and manage with an intuitive remote control



“The FRone has given me much more time to take care of my business and my special needs cows!”

Water thermo troughs

Watermaster and Watermatic thermo-troughs

The design and features of the Watermaster make it the optimum solution for supplying fresh water to large barns. The robust, completely enclosed polyethylene outer wall is impact-resistant, animal-friendly due its lack of sharp edges and rounded shape, and also moisture-proof due to its protective polyurethane insulation. This last feature also ensures that the water system does not freeze during the colder months. An optional heating element may be retrofitted in areas that suffer from extreme frost. The float has a high capacity and can be maintained without tools.



- Your benefits at a glance:**
- Optimum fresh water concept
 - Frost-free due to polyurethane foam layer
 - Optional heating element for extremely low temperatures
 - Robust polyethylene outer shell
 - Drainage plugs and rounded edges and corners make it easy to clean



Drinking trough

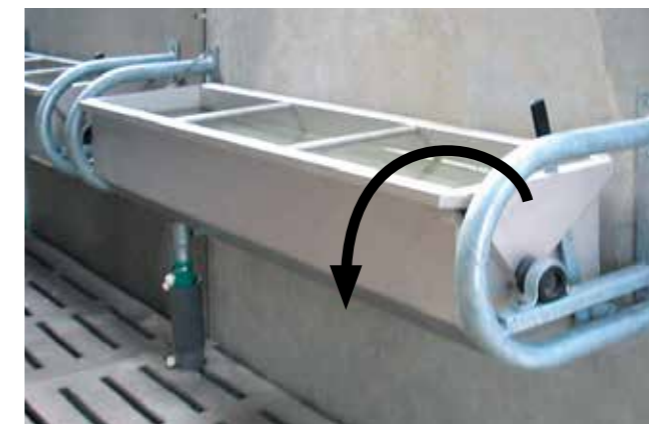
Easy Drink drinking trough

The Easy Drink is a robust trough with a high water flow rate of 2,400 litres per hour, and can be drained quickly through large openings. V2A stainless steel, smooth weld seams and double flanged outer edges ensure injury-free drinking and make it easy to clean. The water input requires piping of at least 3/4". Easy Drink is designed for mounting either on the floor or on the wall. Optional frost protection is available.

- Your benefits at a glance:**
- Faster flow rate: 2,400 litres/h
 - Easy to clean: V2A stainless steel with large drainage holes and diagonal base
 - Can be fitted to the floor or wall
 - Optional frost protection



Tip Over drinking trough



The Tip Over drinking trough is made from V2A stainless steel with smooth seams and double flanged outer edges. The drinking trough can be tilted forward with a lever for cleaning so the empty trough simply has to be sprayed off and cleaned. The Tip Over requires an input pipe of at least 1/2". The float valve permits a flow rate of 600 litres per hour. Optional frost protection is available.

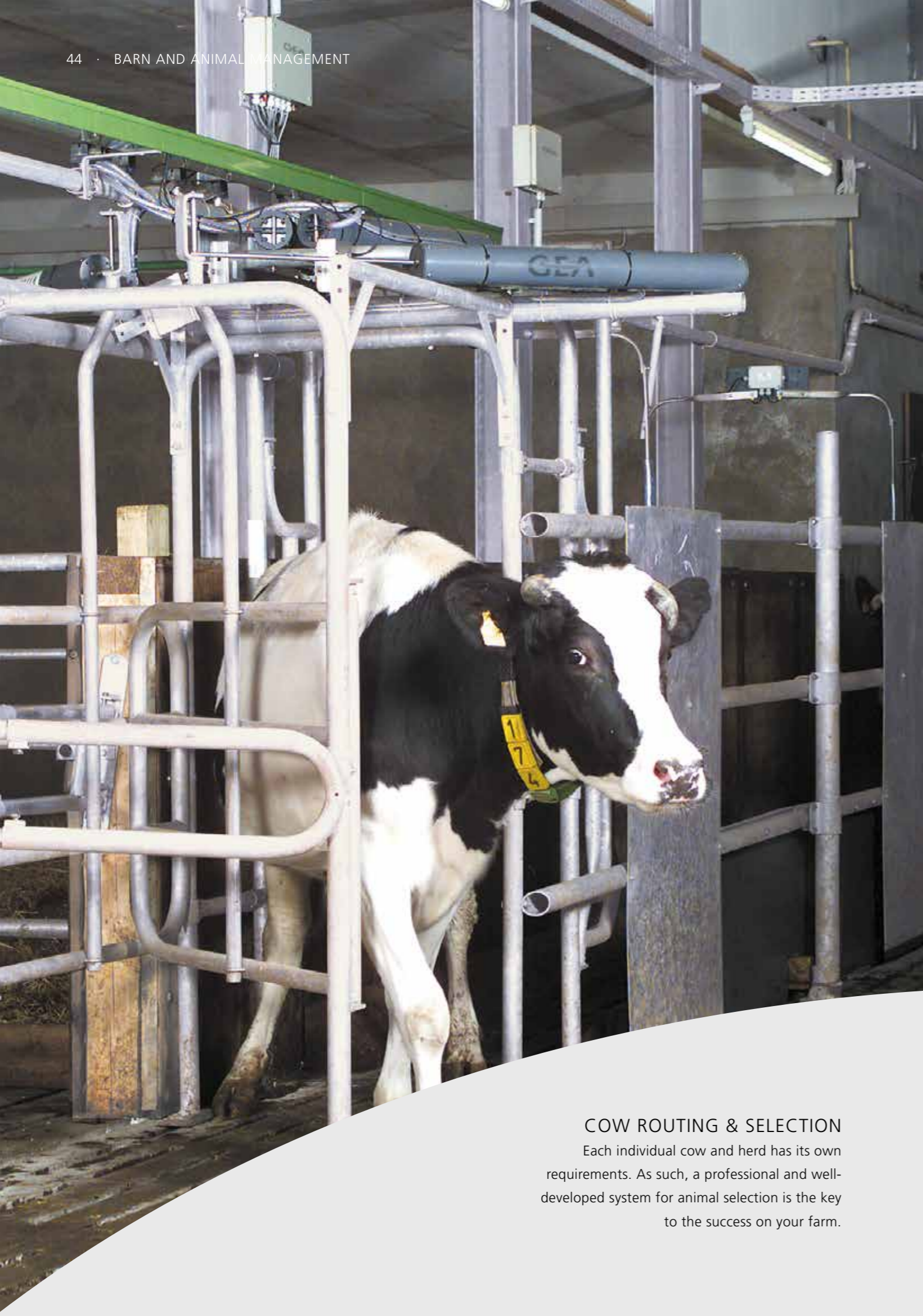
- Your benefits at a glance:**
- Flow rate suited to application: 600 litres/h with float valve or low-pressure system design
 - Tipping lever makes it easy to clean
 - Can be fitted to the floor or wall

Suevia product range for water supply systems

As water supplies are regulated by the animals themselves and a top-quality, adequate water supply is indispensable for the production of high-quality milk, the types of trough solutions required can vary greatly from farm to farm.

- Your benefits at a glance:**
- Steady water supply
 - Completely adjustable water volumes
 - Large drinking bowl
 - Cast iron, completely enamelled





Barn and animal management

As with feeding and drinking, stress-free and calm processes are of extreme importance when animals are being guided in the barn and separated as needed. In order to ensure the animals are guided efficiently through the stall or to feeding areas, and that

sick cows can be moved directly into a separate treatment area, farms require routing and selection equipment that can respond to the varied behavior of the herd with the required efficiency.

COW ROUTING & SELECTION

Each individual cow and herd has its own requirements. As such, a professional and well-developed system for animal selection is the key to the success on your farm.

Lifting Fences

Lifting Fences provide the opportunity to create the ultimate routing and selection layout in and around the barn.

Faster separation of cow groups

Suitable for entrances with frequent traffic, feed passages, and in routing to and from the milking parlor without having to swing a fence through a closely packed group of cows. Our Lifting Fences make sure that easier separation of cow groups is possible and therefore reduces labor costs.

Lifting Fence – manual operated

The manual operated Lifting Fence opens/closes when pushing the fence up and down. Because the fence is in balance, the fence is light and easy to operate. It also always stays in the position you want, and it can be positioned at the height you require.

The fence is available with 2 horizontal bars with a maximum walkthrough height of 240 cm or with 3 horizontal bars with a maximum walkthrough height of 210 cm.

The width of the fence is adjustable up to 1 meter and starts at a length of 230 cm to a maximum length of 600 cm.



Your benefits at a glance:

- Fully adjustable to fit different openings, up to 6 meters
- Light and easy operation through the use of a spring system
- Spring mechanism tested for 10,000 repetitions



Lifting Fence – electric driven

Our electric driven Lifting Fence is available with a remote control for places where the lifting fence needs to be controlled from a distance.

The fence is available with 2 horizontal bars with a maximum walkthrough height of 240 cm or 380 cm with 3 horizontal bars with a maximum walkthrough height of 210 cm or 350 cm.

The width of the fence is adjustable up to 1 meter and starts at a length of 230 cm to a maximum length of 600 cm.



Your benefits at a glance:

- Fully adjustable to fit different openings, up to 6 meters
- 230 V 21 RPM electric motor
- Fully automatic locking system
- Highly sensitive, optical sensor locking system for the safety of your cows



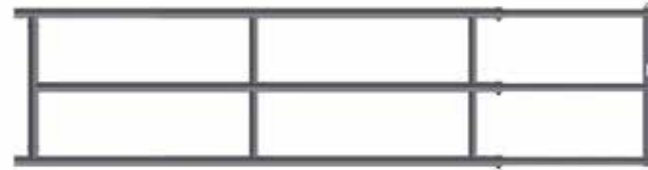
Separation fences



Your benefits at a glance:

- Versatile: modular system with varied elements
- Cost-effective: optimum space utilization
- Animal-friendly: guides the animals safely to their destination
- Easy operation
- Adaptable to individual needs
- Simple, safe locking

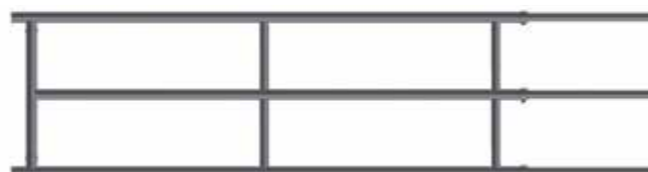
Separation fences adjustable



Separation fences extendable



Separation fences adjustable + slidetubes



Separation fences



Separations fences with vertical tubes



Application separation fences

Age in months		2H	3H	4H	5H	2V
Dairy cows	> 22	●	●	●	●	●
Heifers	19 t/m 22	●	●	●	●	●
Young stock	7 t/m 18		●	●	●	
Calving cows	> 22				●	●
Calves	0.5 t/m 6				●	●
Recommended fence height topside in cm measured from the top of the bedding/floor						
Dairy cows	> 22	120 - 130	140 - 150	140 - 150	140 - 150	140 - 150
Heifers	19 t/m 22	120 - 130	140 - 150	140 - 150	140 - 150	140 - 150
Young stock	7 t/m 18			140 - 150	140 - 150	140 - 150
Calving cows	> 22				150	140
Calves	0.5 t/m 6				150	140
Recommended fence height bottomside in cm measured from the top of the bedding/floor						
Dairy cows	> 22	70 - 80	50 - 60	35 - 40	20 - 30	30 - 40
Heifers	19 t/m 22	70 - 80	50 - 60	35 - 40	20 - 30	30 - 40
Young stock	7 t/m 18			35 - 40	20 - 30	30 - 40
Calving cows	> 22				20	20
Calves	0.5 t/m 6				20	20



Barrier

Single pipe barrier

With a single pipe barrier you easily can create a temporary separation to guide groups of cows to the right direction. The barrier can be closed and opened in vertical direction and depending on the type can be opened like a fence.

Barriers are unique on the market as they are designed to be both durable and versatile in areas with frequent traffic, feed passages and in the routing to and from the milking parlor without swinging a fence through a group of animals.



Your benefits at a glance:

- Spring support: The barrier is easy to open and close
- No extra space for parking position needed
- Depending on the barrier type it is extendable up to 250 cm
- The barrier can be adapted in length without cutting
- Intergraded lock mechanism when open for safety and easy operation
- Turntable up to 180° and can be open up to 75°



One way gate / Return stops



Your benefits at a glance:

- Targeted: animals are guided very safely
- Barn optimization: variety of division options
- Robust: resistant, even to severe impacts





AutoSelect 3000 SA / 3000 / 5000

With AutoSelect you set the route for your animals!

Careful treatment and inspection of the animals is a basic requirement for a healthy and productive herd. With the segregation gates from GEA, manually searching for and constantly segregating your herd is a thing of the past! GEA offers different systems for automatically separating individual animals or groups of animals efficiently, quickly and reliably.

AutoSelect 3000 SA – the guidance system without data connection to DairyManagementSystem 21

- A reliable, semi-automated individual animal segregation system
- Easy to use with segregation logic set by the individual application of responders
- Up to 3 segregation channels possible for simultaneous segregation for different treatment purposes
- High level of segregation reliability • can be integrated into DairyManagementSystem 21 later without any major conversion work

AutoSelect 5000 – the guidance system with data connection to DairyManagementSystem 21

- A reliable, fully automated individual and group segregation system
- Up to 5 segregation paths possible for simultaneous segregation for different treatment purposes
- Controlled via DairyPlan C21
- Upstream identification (before the segregation area)
- Up to two segregation channels can be arranged one after the other (flexible for many structural solutions)
- High level of segregation reliability
- Flexible for different structural solutions (old buildings, etc.)
- Taxatron scales can be integrated

AutoSelect 3000 – the guidance system with data connection to DairyManagementSystem 21

- A reliable, fully automated individual animal segregation system
- Controlled via DairyPlan C21 (segregation specifications can be entered regardless of milking time or milking parlor)
- Up to 3 segregation channels possible, for simultaneous segregation for different treatment purposes
- Segregation conditions (e.g. high level of activity, etc.) can be programmed in DairyPlan C21
- High level of automation and therefore minimal herd management organization work



Cow Treatment

Makes cow management easy, very practical and saves a lot of time.



The cow handling race is a specially designed fence construction to separate cows from the herd, individually or in groups – whether for insemination, treatment by a veterinarian, vaccination or periodic pregnancy control. With the handling race from GEA, handling cows is considerably easier, smoother and faster. The cow handling race is available for both concrete and slat floors. The standard handling race has a length of 6 metres and extensions are available in 3 and 6 metre lengths.



Your benefits at a glance:

- Versatile: suitable for a variety of treatment options
- Uncomplicated: simple to use
- Animal-friendly: optimum care for the herd away from the feeding area
- Modular: expandable base module with extension options

Hoof care trough

The special dimpled profile of the hoof care trough is designed to allow the cows to spread their hooves naturally, thereby ensuring the effectiveness of the disinfection process. The trough is light, yet still maintains its shape, and can be used anywhere it is needed, always ensuring the animals can stand in it safely.



Your benefits at a glance:

- Dimpled profile allows the cows to spread their hooves
- Light, yet maintains its shape: easy to install and move
- Non-slip

Hoof trimming crush



Your benefits at a glance:

- Robust design
- Injury-free hoof care
- Effective cleaning and maintenance
- Durable



Barn Management accessories

There are numerous accessories available for our routing fences. On this page you will find a selection of our range. Our dealer can provide you with information about prefabricated solutions.





YOUNG STOCK SOLUTIONS
 Strong calves leads to farming success. Efficient heifer rearing is a key contributor to cost-effective farm management. Healthy, productive calves are a sound investment for the competitive future of any dairy farm.

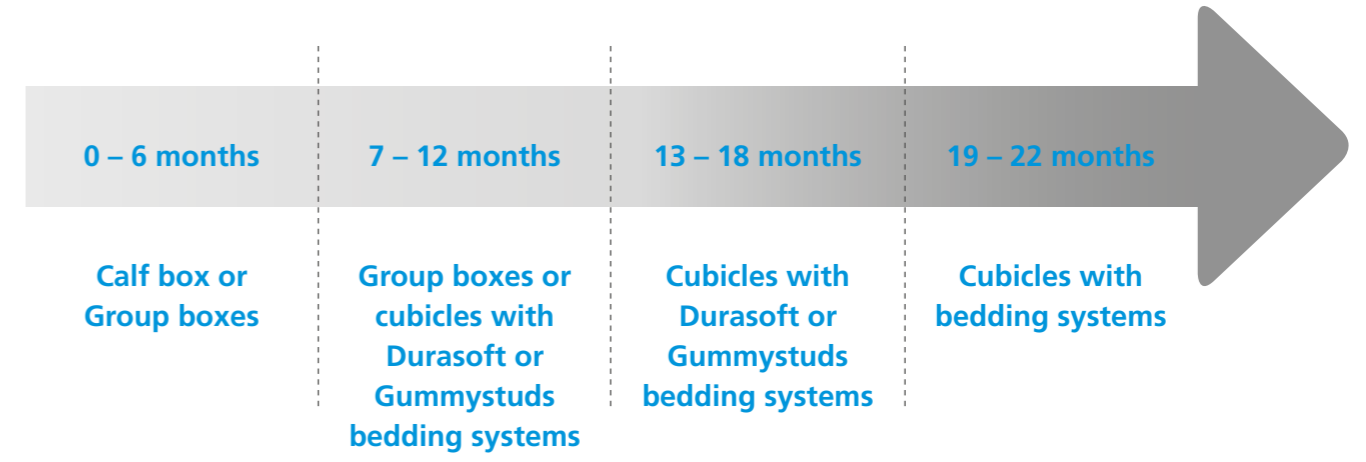
Rearing young cattle

Successful long-term milk production requires extreme care and diligence when rearing young cattle. Investments in the key areas of accommodation and feeding help farmers to successfully raise their newborn calves to the age of breeding.

Products and solutions from GEA have been proven in practice and support your farm's operation by ensuring animals are reared appropriately and sustainably with cost-effective systems.

This guarantees that your animals will produce high-quality milk once they are reared.

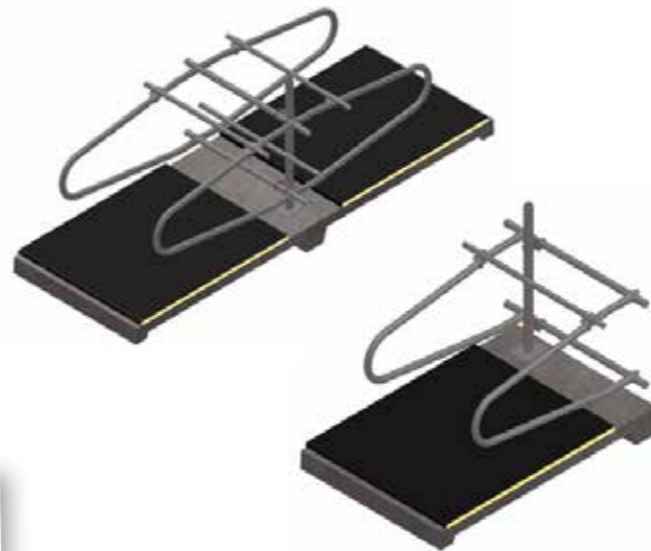
Our "Young Stock Solutions" range includes a variety of suitable feed fences, cubicle divisions, igloo huts and other products which have all been tried and tested in practice. We recommend the following forms of accommodation for specific age groups:





Young Stock Solutions: Cubicles

The cubicle divisions in the „Young Stock Solutions“ range are available for specific stages of development and ages. There are four sizes available (135, 160, 170 and 180 cm) for use with animals from 2 weeks to 18 months of age, which, as with all items in our product line, feature a first-class finish, are extremely robust, particularly easy to clean and user friendly.



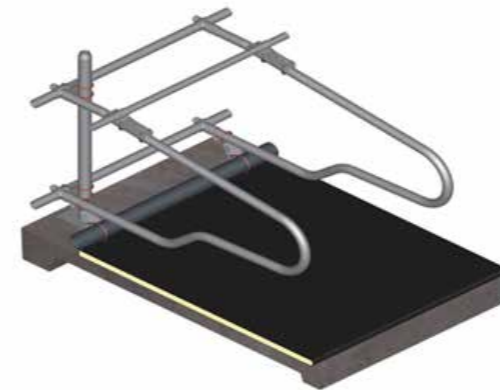
Your benefits at a glance:

- Effective: optimum space utilization
- High-quality finish: long service life
- Flexible: designs available for specific ages

Recommended dimensions for self-supporting cubicle division for young cattle

Cubicle	Recommended length – wall row	Minimum length – wall row	Box width mm
Cubicle division 135 cm	> 1800 mm	1600 mm	650 - 800 mm
Cubicle division 160 cm	> 1950 mm	1850 mm	800 - 900 mm
Cubicle division 170 cm	> 2100 mm	2000 mm	900 - 1000 mm
Cubicle division 180 cm	> 2300 mm	2100 mm	1000 - 1150 mm
Cubicle	Recommended length – double row	Minimum length – double row	Box width mm
Cubicle division 135 cm	3000 mm	3000 mm	650 - 800 mm
Cubicle division 160 cm	3500 mm	3500 mm	650 - 900 mm
Cubicle division 170 cm	3800 mm	3800 mm	900 - 1000 mm
Cubicle division 180 cm	4000 mm	4000 mm	1000 - 1150 mm

Basic cubicle division 190 cm



The self-supporting Basic cubicle division provides excellent freedom of movement and is easy to assemble. When combined with original GEA cow mattresses or rubber mats, it provides optimum comfort for cows aged 18 months and older.



	Durasoft	Gummystuds GS20
Grip	++++	+
Comfort	+++	+
Hygiene	+++	+
Durability	++	+++

+ means sufficiently / ++++ means excellent

Recommended dimensions for basic cubicle divisions

Cubicle	Recommended length – wall row	Minimum length – wall row	Cubicle width centre to centre
Basic cubicle division 190 cm	2500 mm	> 2300 mm	1100 - 1200 mm
	Recommended length – double row	Minimum length – double row	Cubicle width centre to centre
Basic cubicle division 190 cm	> 2300 mm	> 2300 mm	1100 - 1200 mm



Young Stock Solutions: Feed fences

The feed fences provide excellent animal comfort and are very sturdy and easy to use. The feed fences from the „Young Stock Solutions“ division of GEA are available in Twist&Lock, self-locking, diagonal or Swedish feed fence

designs. They have dimensions suitable for the various stages of development and thus help to optimise rearing for calves aged from 0.5 to 22 months.



Your benefits at a glance:

- Functions comparable with those of feed fences for adult animals
- Available in Twist&Lock, self-locking, diagonal or Swedish feed fence designs
- Tailored to the anatomy of young animals

Self-locking feed fence for young cattle

The range of self-locking feed fences for young cattle, part of the „Young Stock Solutions“ project from GEA, is available now. These feed fences can be adjusted to the animals' size from the age of two weeks to 22 months. A user-friendly Twist&Lock version of the feed fence is available for cows older than 7 months. These feed fences are especially suited for calves due to their animal-friendly hinge. The Twist&Lock system can be used to select individual animals quickly.



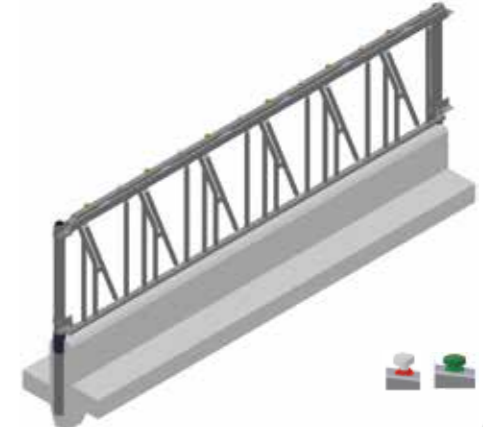
0.5 to 6 months

- Average feeding width 40 cm (38 - 43 cm)
- Neck width can be adjusted from 8 - 15 cm
- Available in lengths from 135 - 325 cm
- 1.5" lower bar and 1" fence
- Fence height 81 cm
- Inner height 67 cm
- Can be released individually with a push button



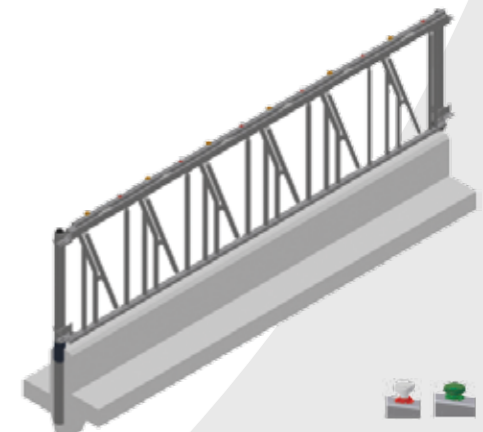
7 to 12 months

- Average feeding width 50 cm (44 - 54 cm)
- Neck width can be adjusted from 10 - 17 cm
- Available in lengths from 110 - 350 cm
- 1.5" lower bar and 1" fence
- Fence height 94 cm
- Inner height 80 cm
- Can be released individually with a push button
- Twist&Lock feature to secure animals individually



13 to 22 months

- Average feeding width 58 cm (51 - 60 cm)
- Neck width can be adjusted from 13 - 20 cm
- Available in lengths from 121 - 350 cm
- 1.5" lower bar and 1" fence
- Fence height 94 cm
- Inner height 80 cm
- Can be released individually with a push button
- Twist&Lock feature to secure animals individually



Diagonal feed fence for young cattle

Feed fences from GEA are designed as to be solid partitions between feeding and walking alley. Also they separate the calves from each other during the feed intake. The special design minimizes the spilling of feed on the walking alley by the calves.



Your benefits at a glance:

- Lengths of the fences correspond to the length of the Twist&Lock fence. This makes it possible to exchange the fences in the future if required
- Maximum benefit, because each diagonal feed fence is specially designed for an age category
- Great for barns with different cow ages because the young stock fences can be mounted in one line without height differences
- Less spilling of the feed on the walking alley means minimized feed consumption and reduced cleaning effort

Young Stock Solutions: Calf igloo huts and calf boxes

With their small size, ergonomic design and feeding and drinking elements, GEA has truly focused on the initial development stage of the animals when designing this equipment. Our calf igloo huts and calf boxes are easy to use, sturdy and durable, and benefit from a whole range of accessories. They are indispensable tools for rearing high-yield dairy cattle successfully.

Your benefits at a glance:

- Versatile: tailored to age and size
- Durable: high-quality materials
- Optimum animal care: provides easy access to the calf



Young Stock Solutions: Separation Fences

Group rearing of calves and young cattle requires animal friendly equipment and easy access for cleaning and care. Our special designed Separation fences provide a variety of suitable options for your stall design.

Your benefits at a glance:

- Flexible: variety of division options
- Sturdy: impact-resistant
- Tested in practice: proven design

Young Stock separation fences

Age in months	2H	3H	4H	5H	2V
Calves				●	●

● = suitable





GOOD BARN CLIMATE

A good barn climate is a fundamental requirement for a high level of cow comfort. And this pays off. It ensures that milk production yields increase and reduces the costs of energy and ventilation, both in summer and in winter.



Barn Climate

Changes in temperature, stress caused by light, wind and precipitation, as well as room and animal-related thermal processes within the barn are just some of the factors which affect the barn climate. Precise control and regulation of these factors is essential to ensuring the animals benefit from the optimum climate conditions. Adequate ventilation and stable temperatures have a direct effect on the well-being of the herd and thus on the milk yield.

The following pages contain a small selection of the basic climate-related products in our range. Ask your GEA sales support or GEA specialist center and dealer about tailor-made climate concepts for your barn. They will visit your farm to assess your needs and quickly identify a customized solution for you.



The climate-related products in our product line both ensure a high yield from the herd by providing targeted stress-reduction, and also reduce illness-related losses. In addition, the fitting and retrofitting of climate related equipment protects the farm's assets, for instance, by preventing the build-up of condensation in winter.

Cow Curtain

Best choice for high reliability and cost-effectiveness

The Cow Curtain side ventilation system opens from the top and lowers down in front of an existing wall.



Your benefits at a glance:

- Simple maintenance due to small number of components
- Low maintenance costs due to robust nylon cable
- Adapts well to a variety of weather conditions
- Robust fabric with PVC crossbars on openings of more than 175 cm
- Optional electric drive system



Product options				
Material and colors	Solid			
	Standard mesh			
Drive	manual			
	electric (optional)			
End cover	Galvanized			
Dimensions (h/l) with end mount (height cm/length m)	100/90	150/90	200/90	250/70
	300/70			

VVS Drop

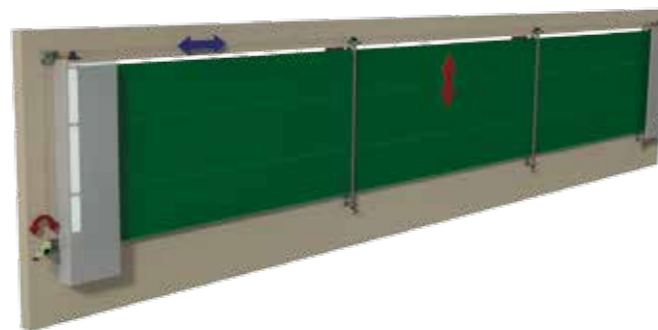
Flexible folding system for all animal needs

The VVS Drop side ventilation system opens from the top and folds at the bottom as it is lowered. The material is tensioned with sewn-in straps and runs on rollers in the side rails.



Your benefits at a glance:

- Less wear due to horizontal sewn-in straps that also make it easier to fold
- Good protection from a variety of weather conditions, particularly high winds
- Lower installation costs make it very economical
- Optional electric drive system



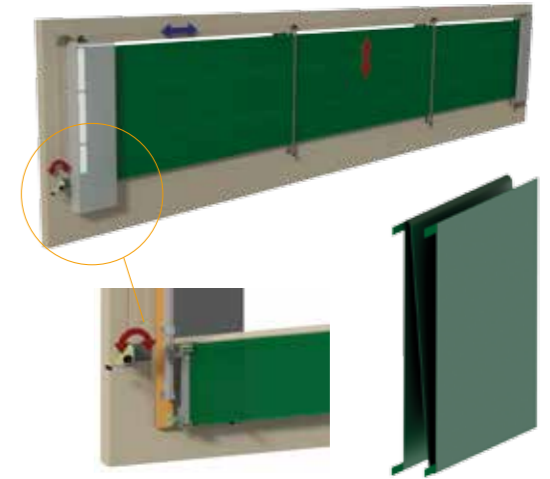
Product options				
Material and colors	Solid			
	Solid Translucent			
	Solid			
	High Performance			
	Standard mesh			
Drive	manual			
	electric (optional)			
End cover	Galvanized			
Bay length	max. 6 m			
Dimensions (h/l) with end mount (*) with mid mount (height cm/length m)	100/70 (140*)	150/70 (140*)		
	200/70 (140*)	250/70 (140*)		
	300/70 (140*)			

VVS Fold

Optimum ventilation with folding technology

The VVS Fold side ventilation system opens from the top and folds into 3 sections at the bottom as it is lowered (with the help of sewn-in straps).

Product options		
Material and colors	Solid	
	Solid Translucent	
	Solid	
	High Performance	
	Standard mesh	
Drive	manual	
	electric (optional)	
End cover	Galvanized	
Bay length	max. 6 m	
Dimensions (h/l) with end mount (*) with mid mount (height cm/length m)	100/70 (140*)	150/70 (140*)
	200/70 (140*)	250/70 (140*)
	300/70 (140*)	



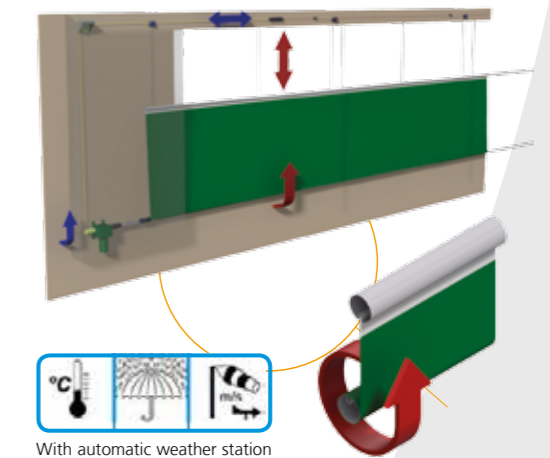
- 3-stage folding process for better durability and less dirt collection
- Good adaptation to changing weather conditions
- Maximum protection from strong winds with horizontal straps
- Lower installation costs make it very economical
- Optional electric drive system

VVS Rolling

Rolling the fabric increases its lifespan

The VVS Rolling side ventilation system opens from the top and rolls the fabric onto a roller at the bottom or centre (depending on the height of the opening) as it is lowered.

Product options		
Material and colors	Solid	
	Solid Translucent	
	Solid	
	High Performance	
	Standard mesh	
Drive	manual	
	electric (optional)	
End cover	Fabric	
	Galvanized	
Dimensions (h/l) with end mount (*) with mid mount (height cm/length m)	100/70 (140*)	350/40 (80*)
	150/70 (140*)	400/40 (80*)
	200/70 (140*)	450/40 (80*)
	250/70 (140*)	480/40 (80*)
	300/70 (140*)	

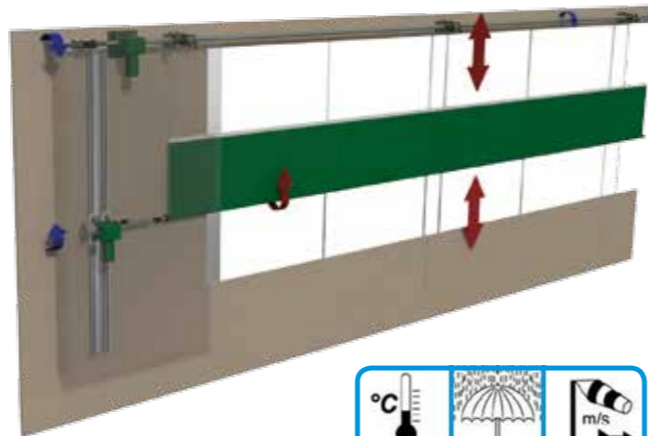


- Cable system with horizontal, extra-strong stainless steel rope
- Automatic control system for precise adaptation to all weather conditions via a weather station (can be controlled by wind direction/speed, rain, temperature or a combination)
- Rolling the material reduces wear / dirt collection and increases the lifespan of the material
- The ropes do not twist under strain so no anti-twist mechanism is required
- Cable system for lower maintenance costs and improved reliability

VVS Shade

Precise, automatic positioning for maximum shade

The VVS Shade side ventilation system opens from the top and/or the bottom and uses a climbing motor to roll the material onto a roller at the centre or bottom (depending on the height of the opening). The CE-certified curtain can be positioned precisely to provide maximum shade. To protect the curtain from dirt, it can be positioned beneath a roof overhang.



With automatic weather station



Your benefits at a glance:

- Precise positioning for maximum shade (curtain can be opened from the top and/or bottom)
- Automatic control system for precise adaptation to all weather conditions via a weather station (can be controlled by wind direction/speed, rain, temperature or a combination)
- Longer service intervals with fewer wearing parts and robust torque tubes
- Reduced wear and less dirt increases the lifespan of the material

Product options		
	Options	
Material and colors	Solid (PVC coated polyester)	
	Solid Translucent (PVC coated polyester)	
	Solid (White polyethylene)	
	High Performance (PVC coated polyester)	
	Standard mesh (PVC coated polyester)	
Drive	electric (optional)	
End cover	Fabric	
Dimensions (h/l) with end mount (* with mid mount (height cm/length m))	100/70 (140*)	300/70 (140*)
	150/70 (140*)	350/40 (80*)
	200/70 (140*)	400/40 (80*)
	250/70 (140*)	450/40 (80*)

Lumitherm

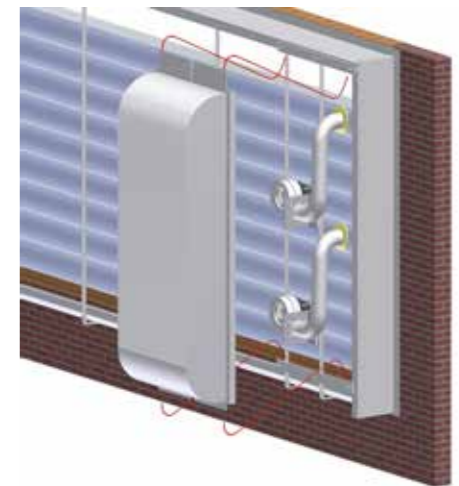
Provides good insulation and natural lighting

The Lumitherm side ventilation system (CE-certified) opens from the top and consists of inflatable membranes that also insulate the barn.



Your benefits at a glance:

- Better protection from external temperatures, optimum weather resistance and maximum daylight with transparent, air-filled membranes
- Automatic control system for precise adaptation to all weather conditions via a weather station (can be controlled by wind direction/speed, rain, temperature or a combination)
- Air in the fabric provides optimum insulation



Product options		
Hold to run switch		
Thermostat switch		
Drive	electric (optional)	
End cover	Plastic	
Dimensions (h/l) with end mount (height cm/length m)	100/80	250/60
	150/80	300/60
	200/80	

Agridoor

Sectional, fast operating door.

The Agridoor is suitable for feed storage, grain storage, feed passages, parlours and general purpose buildings.

A sectional rollerdoor system which helps meet Quality Assurance standards. This material door is fast in operation and has a bird-proof seal. Each section is independent giving you a choice of mesh or solid materials per section.

The ideal access solution providing weather protection, ventilation and light for farm buildings.



Product options	
Material / Colors	
Solid	
Standard mesh	
HP mesh	
HD mesh	
Solid Transfluent	
Max. dimensions (h/l)	6.1 m x 6.0 m



Your benefits at a glance:

- Fully adjustable to fit available opening
- Choice of different panel materials and colours on the same door
- High tensile galvanized steel wind bars
- Nylon bearings and gears
- Optional electric drive system



Agridoor Manual

A sectional rollerdoor system with an optional bird-proof seal. Chain driven assembly, spring assisted for easy operation and to meet EC regulations. Semi-automatic locking catches. Option for right or left hand operation. Operation speed 5 sec/m.



Agridoor Electric

All the advantages of the manually operated Agridoor but with an electric motor drive and automatic locking catches for basic switch operation. Remote control option. Operation speed 9 sec/m.



Agridoor Plus

A door designed specifically for feed stores, grain stores and general purpose buildings requiring larger access openings. All the proven benefits of Agridoor Electric but now available up to 10m high or up to 10m wide with a maximum door size of 55 m². Operation speed 7 sec/m.

Rollerdoor

Economical, full height door

The Rollerdoor is an economical long lasting economy door for agricultural buildings. A strong material door which provides access to the full height of the opening. Simple to install and fast to operate. It is ideal door for farm buildings including general purpose buildings and milking parlours.



Rollerdoor Manual

A strong material door which provides access to the full height of the opening. Sheets easily replaceable in the event of accidental damage. Semi-automatic locking catch, door tension system, long lasting nylon wind lockers for extra stability. Operation speed 2 sec/m.



Rollerdoor Electric

All the advantages of the manually operated Rollerdoor but with a 230V 11RPM electric motor drive. Operation speed 16 sec/m. Suitable for feed storage, grain storage, feed passages, parlours and general purpose buildings.

Your benefits at a glance:

- Simple to operate chain driven up and down door
- Easy to install
- Fully adjustable to fit available opening
- Long lasting door



Product options	
Material / Colors	
Solid	
Standard mesh	
HP mesh	
HD mesh	
Solid Transfluent	
Max. dimensions (h/l)	5.1 m x 6.0 m

Rollerscreen

Spring supported roller screen system

The Rollerscreen is suitable for agricultural applications including livestock feed passages, scraper passages, main livestock entrances, equestrian doors, hay and straw storage, variable ventilation control and milking parlours.

Spring operated roller screen system for above gates, walls and feed barriers in farm buildings. Providing fast access, weather protection and variable ventilation. Operational even in poor weather conditions.

Your benefits at a glance:

- Locking mechanism for stability
- Fully adjustable to fit available opening
- Secure even in high winds
- Operational in poor weather conditions



Product options	
Material / Colors	
Solid	
Standard mesh	
HP mesh	
HD mesh	
Solid Transfluent	
Max. dimensions (h/l)	4.1 m x 6.0 m

Multibay

Electric rolling door system for multiple bay

The Multibay is an electric rolling systems for farm building access and provide weather protection and ventilation. Covers can span multiple bays in-line. Opens from the bottom. Ideal for any farm building requiring weather protection but where access is required for machinery, feedstuffs or livestock. Also ideal for shading or protecting hay and straw.

Product options	
Material / Colors	
Solid	
Standard mesh	
HP mesh	
HD mesh	
Solid Transfluent	
Max. dimensions (h/l)	6 m x 70 m



Your benefits at a glance:

- Protects multiple bays in a single run
- Safety clutch included to meet EC door directive
- Unique locking catches
- Access and ventilation options available

Maxidoor

Folding door up to 20 m wide

The Maxidoor is ideal for grain stores, silage stores, feed stores, livestock and general purpose agricultural buildings requiring doors for large doorways. Wide access vertically folding doors that operate on existing building uprights. A cost effective solution for large openings.

Product options

Material / Colors
Solid
Standard mesh
HP mesh
HD mesh
Solid Transfluent
Max. dimensions (h/l)
10 m x 20 m



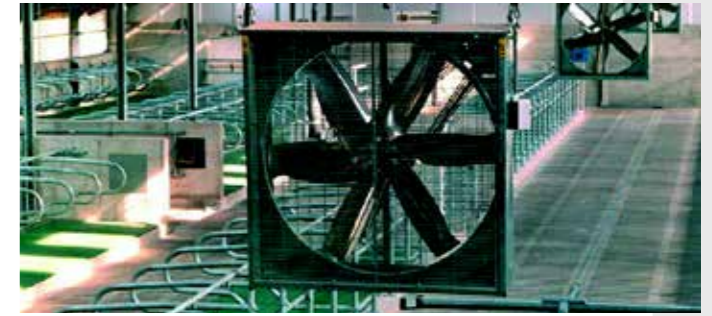
Your benefits at a glance:

- Provides full width access to barns and agri buildings for maximum convenience
- Easily operated in high winds
- Manual or motorised drive options

Circulation Fan

Circulation fans are a very efficient solution that increases the cows' wellbeing and keeps food intake at the right levels during the warm summer months. There are different control options available depending on the design.

The standard circulation fans are normally hung around 15 – 18 m apart. There must be at least 250 cm of space beneath the fans. We can advise you on the best system for your operation.



Your benefits at a glance:

- Reduced rotation speed
- Very quiet and efficient
- Can be controlled centrally via thermostat to ensure the barn temperature remains constant
- Available in 3 sizes

Trackscreen

Sliding curtain door system

A sliding curtain system which runs on overhead tracking providing weather protection and ventilation for agricultural buildings with wide openings. Ideal for livestock buildings, grain stores, feed stores and general purpose farm buildings.



Your benefits at a glance:

- Simple to operate chain driven up and down door
- Easy to install
- Fully adjustable to fit available opening
- Long lasting door



Product options

Material / Colors
Solid
Standard mesh
HP mesh
HD mesh
Solid Transfluent
Max. dimensions (h/l)
5 m x 20 m

Roof Ventilation Systems

The special roof ventilation system is designed to remove warm, dirty and moisture-filled air. This system has been tested in practice on dairy farms. The system is based on natural ventilation using the Venturi principle. The stream of air is accelerated as it passes under the roof as the space constricts, creating a suction effect.



Your benefits at a glance:

- UV-resistant PP sheets
- Ridged elements with light openings of 170 or 250 cm
- Developed in accordance with the Venturi principle, approx. 85 % of light passes through
- Hail-resistant, not affected by rain



Animal comfort: Cow Brushes

Cow brushes will help to substantially improve hygiene levels - and a clean skin in particular on the cow's back, will aid the release of heat through the skin. Cows enjoy rubbing themselves against objects. This is an intrinsic part of their nature and the GEA cow brushes are ideal for this purpose. The robust cow brush structure is sturdy enough to withstand the forces. Furthermore, it also provides some resistance, allowing the cows to apply pressure without pushing the brush out of their reach.

E-Brush

The E-Brush is a fixed pendulum brush that can apply pressure for a better rubbing effect. It does not freely roll over or slip off the back of the cow. This ensures that it cleans the cow's back, the area normally the most prone to dirt.

The E-Brush has Ø400 mm and Ø500 mm nylon bristles, which make the brush more effective and allow it to reach difficult areas such as the base of the tail.

M-Brush

The diagonal design of the M-Brush cleans both the cow's back and the down sides. The M-brush is a fixed brush. This ensures that it maintains a consistent pressure and can access a larger area of the cow. The brush has Ø400 mm and Ø500 mm nylon bristles, which make the brush more effective and allow it to reach difficult areas such as the base of the tail.

CowCleaner Swing

The brush of CowCleaner rotates in every direction and at nearly every angle in order to reach every part of the animal's body (head, rump). The shape of the bristles enables it to brush a larger area of the cow when in use. The CowCleaner Swing comes with a control box with a display which provides status information.

CowCleaner Duo

The CowCleaner Duo covers the entire body of the cow and can apply pressure for a better brushing effect. The two brushes are shaped to ensure that it brushes a larger area (head, back, breast and lateral area) when in use.

In addition, the CowCleaner Duo comes with a control box with a display. This allows you to change the running time setting and to obtain status information. The double brush system starts rotating when it is lifted up. The CowCleaner Duo is designed for optimal cow cleaning and enhances the cow's health, comfort and welfare.



Cleaning and brushing intensity	E-Brush	M-Brush	CowCleaner Swing	CowCleaner Duo
Back of the cow	●●	●	●	●●
Head of the cow	●	●●	●	●●
Tail implant of the cow	●●	●	●	●●
Edges of the cow		●	●●	●●
Cleaning Pressure	●●	●●	●	●●



CLEANER SYSTEMS

GEA has always made its mark by developing efficient and long lasting free stall manure cleaner systems. Whatever your barn condition is we have the solution to meet your highest expectations.



Manure engineering

It goes without saying that exemplary barn hygiene is of extreme importance for the health of the herd and is therefore a basic requirement for flawless milk production. Hoof diseases and mastitis can be avoided and the overall risk of infection is lowered. However, hygiene measures are greatly dependent on the type of animal husbandry and the equipment installed in the buildings.

As experts with decades of experience in the processing of manure, GEA is able to offer you a top-class range of quality

products. With our huge product portfolio, we can meet your every need. Whether you are looking for equipment for a stanchion barn or free shed, or you have a solid or slatted floor, we will always find the right system for you.

Our range covers everything from chain, hydraulic and cable winch manure removal systems to manure removal robots. With us, you will always find the right solution that perfectly meets your requirements.

SRone scraper robot

Independent, through and through.

The SRone has been on the market for more than 5 years and has proven to be very reliable: with simple, pioneering technology, guaranteed to keep your animals safe. With a running time of up to 18 hours and a working speed of up to 5 m per minute, it can clean between 6,000 and 8,000 square meters of slatted floors every day. The agile scraper robot gets into every corner, and runs along the fixed edges which are part of your facility.

Optimized energy management at charging station

The SRone manages its power levels itself. A minimum charge time of 6 hours, preferably overnight, completely recharges the batteries and makes sure the SRone is ready to start again the next day.

The SRone cleans up thoroughly

The scraper robot is the ideal technology for cleaning main and connecting walkways, and especially the corners and edges of your barn.



Your benefits at a glance:

- Optimized barn hygiene in all walkways with slatted floor
- Basic unit for simple barn layouts
- Driving along fixed edges
- Reliable lateral guidance system keeps the SRone on the right track at all times
- For barns with up to 8,000 square meters of slatted floor
- Running time up to 18 hours per day; Recharging within 6 hours
- Low maintenance costs per working hour
- Saves time and effort

SRone+ scraper robot

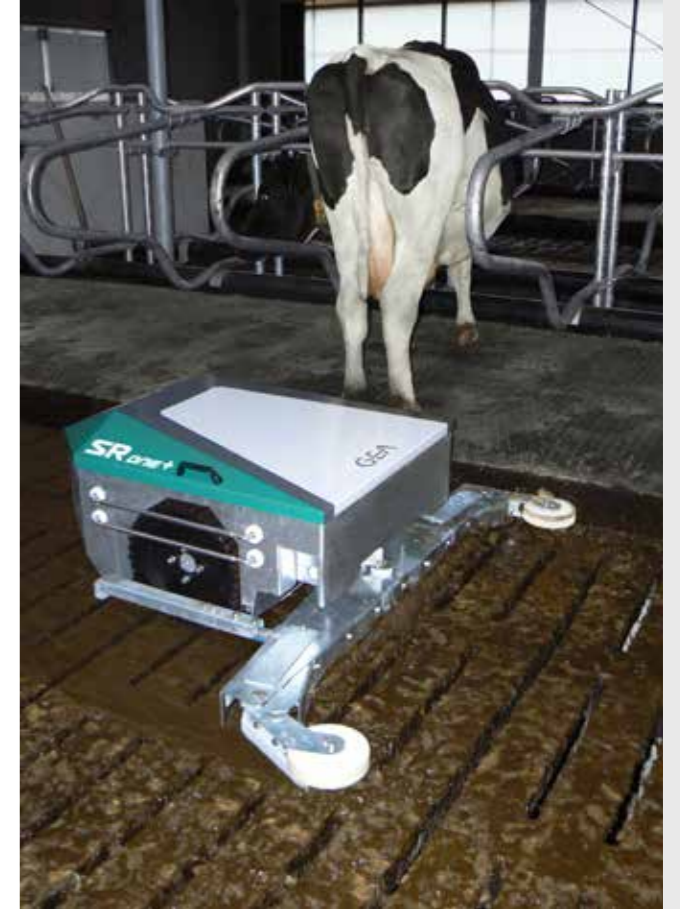
High-tech barn cleaning for small and large barn layouts.

Intelligent barn cleaning on a grand scale: That's what this premium version of the popular SRone does reliably every day. Adjusted to suit the barn layout and hygiene requirements. With up to five programmable routes per day, clockwise or counter-clockwise and 12 possible start times, it always precisely follows the routes you tell it to. For the fully-automated SRone+, even challenging walkways with slatted floor and areas with tricky edges, corners and crevices are no problem at all. It can even run along the center of a walkway without any lateral guidance.

This is ensured by its range of high tech fittings including a gyroscope, RFID/tag sensor technology and solid polyurethane wheels. You can configure its speed to suit different cleaning tasks and, of course, your cows: 5 m/min to 8 m/min in automatic mode and 14 m/min in manual mode. This combination of high speeds and large scraper widths (max. 1.7 meters) enable you to clean up to 12,000 square meters of barn with slatted floor every single day. However, with smaller scraper widths down to 1.2 m available, it is also the perfect choice for smaller barns with tighter walkways.

Full speed ahead! – 19 hours per day

The SRone+ is extremely robust, compact design, has 2 powerful 250W motors and a thrust of up to 100 kg guarantee excellent performance – for up to 19 hours per day. Once it's empty, the SRone+ fully recharges itself within just five hours.



Your benefits at a glance:

- For larger barns with up to 12,000 square meters of slatted flooring
- Can be used in more complex barn layouts
- Can be allowed to run without guides in wider walkways (optional)
- Several routes possible
- Data can be recorded for error analysis
- Runtime up to 19 hours per day; Recharging within 5 hours
- Low maintenance costs per working hour
- Saves time and effort



Cable or rope winch manure removal systems

GEA offers a range of different cable winch manure removal systems for walkways of up to 192 m. The systems are characterized by their ease of maintenance, long service life and efficiency.

You have a number of options when selecting the scraper: with both guided and floor-running scrapers on offer, as well as many different designs slatted floor scrapers or V-shaped or combi

scrapers for solid floors. Scrapers with folding arms and a variety of scraping blades, there is something to suit every farm.

All variants provide excellent cleaning performance and adhere to the floor very well due to their solid, heavyweight construction.

Duo Compact cable drive

The Duo Compact is available in two different designs.

Duo Compact I

With its 0.25 kW electric motor, the Duo Compact I is particularly suited for use in barns with a cycle length of up to 100 m. This covers both slatted and solid floors. If you choose a Duo Compact I, you will receive two drive units per drive system. One of the drive units pulls the scrapers in each direction while the other lowers the cable. Adding additional scrapers reduces the cycle length.



Your benefits at a glance:

- Simple installation with pre-assembled equipment
- Low costs due to low drive power
- Housing for safe operation
- Reliable drive technology for maximum efficiency
- Stroke length up to 65 m

Duo Compact II

The Duo Compact II is the Duo Compact I's big brother.

- 0.55 and 0.75 kW motor which can cover an alley length up to 200 meter

The above values are based on a system with two scrapers on a solid floor.



Your benefits at a glance:

- Simple installation with pre-assembled equipment
- Low costs due to low drive power
- Housing for safe operation
- Reliable drive technology for maximum efficiency
- Stroke length up to 100 m



Polyester rope drive

The polyester rope drive is easy to install on the floor, meaning that only a small amount of space is required for the system. Its stainless steel cladding ensures that the system will work as intended for many years. The rope drive is particularly suited for situations where walkways are of uneven length, or where there are three walkways.



- ✓ Your benefits at a glance:**
- The long service life of the rope (18 mm polyester compound with a breaking resistance of 5,500 kg) and the variety of options it provides for repairs and length reductions.
 - Highly animal-friendly.
 - Self-regulating. Does not require tensioning, meaning less time is spent on maintenance.
 - The electric motors have a capacity of 0,25 or a 0,37 kW motor adapted to the actual load.
 - Low scraping speed. Maximum 3.5 m per minute for a maximum alley length of 180 meter. Can be used on slatted and solid floors.

- Drive**
- Simple installation with pre-assembled equipment
 - Low costs due to low drive power
 - Housing for safe operation
 - Reliable drive technology for maximum efficiency

XScrape rope DD

- ✓ Your benefits at a glance:**
- Unique and exceptional technologies
 - Uses combi rope, the perfect combination of the advantages of rope and steel cable
 - Once installed the combi rope is tighten up fully automatically with a constant tension on the rope
 - The XScrape rope DD is economically efficient, automatically working manure



Cable winch

The cable winch unit from the SW range makes everyday tasks easier, can be installed in a number of different locations, operates effectively and requires minimum maintenance. Its unique design allows the drive to move sideways as the cable is wrapped around the rotary drum. It does not cause excessive tension or friction during winding, which would otherwise result in premature wear of the fittings and cable.



- ✓ Your benefits at a glance:**
- Drive unit can moves sideways the cable is guided on the drum without guide eye, so less wear of the cable
 - The corner wheels can be mounted on short distance of the drive
 - Solid construction, all parts are easy accessible
 - Extremely light protective cover
 - Safe operation
 - Simplified cable attachment
 - Open, raised floor on the drive unit
 - Simple installation with pre-assembled equipment
 - Low costs due to low drive power
 - Reliable drive technology for maximum efficiency

- Can be combined with the following scrapers:**
- Slatted floor scraper
 - 16° Combi Scraper
 - V-Scraper
 - Combi Scraper Modular



Hydraulic manure removal system

Hydraulic manure removal systems are best suited for walkways of different lengths with different floor coverings. The system can be used on alleys with rubber surfaces or concrete floors. Hydraulic manure removal systems from GEA benefit from extremely solid construction and clean floors very effectively.



Chain manure removal system

Our chain manure removal systems are designed for alleys of up to 100 m and are characterised by their sturdy design and excellent cleaning performance under 24 hour continuous operation. This user-friendly drive features a unique chain wheel, a specially designed chain, a maintenance-free chain tensioner and adjustable overload protection. Our chain manure removal systems are very heavy to ensure they clean effectively, and are accepted well by the animals.



Chain drive 22 mm with pintle

- Reliable drive technology for maximum efficiency in large operations
- Maintenance-free chain tensioner
- Adjustable overload protection
- Operator-friendly design
- Specifically intended for continuous operation with unique chain wheel and chain design



XScrape chain drive 13 mm

- Reliable, compact drive technology for maximum efficiency
- Automatic or manual chain tensioner
- Adjustable overload protection
- Operator-friendly design
- Maximum chain length 250 m
- With a chain-cable combination length up to 400 m possible
- Low power requirements



Scraper Systems

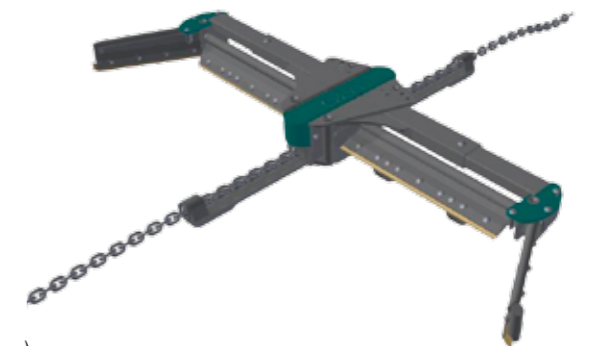
Custom made Combiscraper

- Maximum load and excellent service life
- Welded frame, dimensions customised to the floor
- Standard 16 degree angle, concentrates the manure more in the middle of the scraper
- Heavy scraper weight for good floor adhesion
- Runs steadily and cleans surfaces highly effectively
- Standard foldable



Modular built scraper for concrete floors

- For use on concrete and profiled floors
- Guidance system, can be installed on the floor or in the floor
- Cleans floors quickly and effectively
- Straight or 15 degree adjustable
- Available in widths from 170 - 500 cm
- Standard foldable
- Optional with PU strip or steel strip
- Also available in bidirectional version (operating in two directions)



Folding scraper for concrete floors

- For use on concrete floors
- Guidance system in the floor
- Can be used with longer straw
- The shape of the scraper guides the manure to the center
- Available in widths from 160 - 500 cm
- Option: bidirectional version



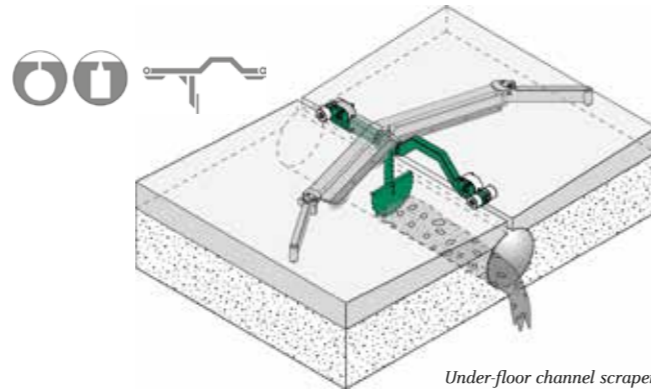
Superclean for slatted floors

- Animal-friendly slat scraper
- The PU strips ensure that the slats are cleaned effectively
- Adjustable rubber end pieces clean the rear sides of the cubicles
- Available in widths from 170 - 450 cm

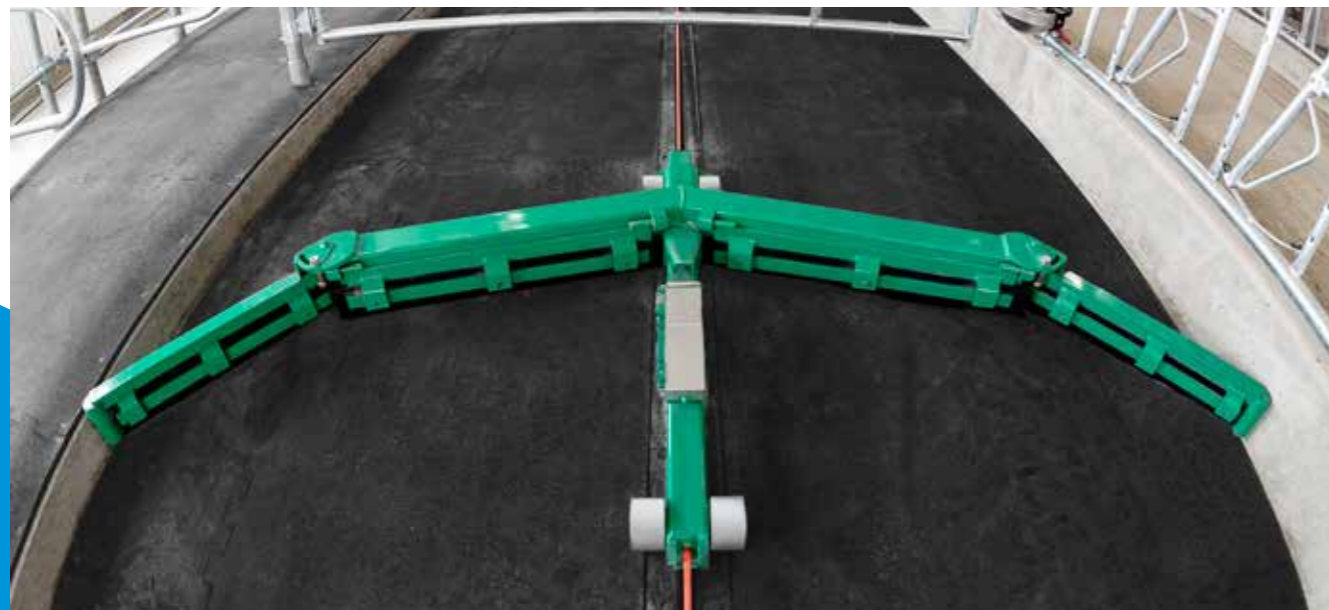
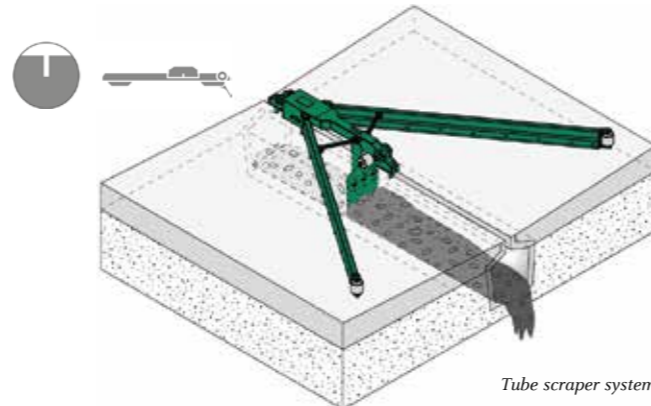


Under-floor channel scraper systems

- Various systems available (under-floor, deep groove, tube scraper system)
- Liquid manure flows into a channel beneath the walkway
- Channel can be round or square and made from concrete or PVC tubing
- Integrated under-floor scraper pushes the manure towards the lateral channel
- Keeps the walkways clean, improves hoof health
- Extremely robust steel ensures a long service life



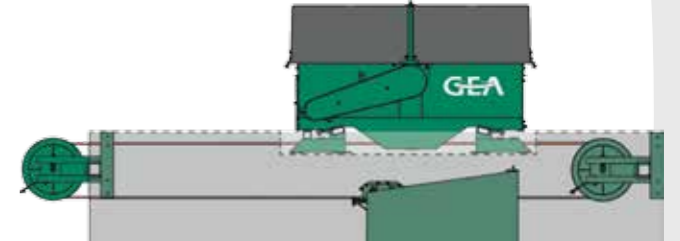
Deep groove scraper



Lateral channel systems

Lateral channel – cable winch

To complete your barn cleaning solution, we recommend a specialised system for the lateral channel. Our cable winch manure removal system for long lateral channels of up to 165 m originates from our product line, and smoothly takes over moving the manure from the removal system in the walkways. Despite its great weight, the motor requires little power and cleans the lateral channel very effectively. As well as being cost-effective, the system requires very little maintenance and is simple to install.



Lateral channel – hydraulic

Our flexible, adaptable hydraulic lateral channel systems are available for channels up to 61 cm wide and 50 m long. This system is similar to hydraulic systems for walkways and can be adapted in a number of different ways to suit your barns. The system is characterized by its solid construction and the excellent cleaning performance and long service life this provides.



Lateral channel – chain

This type of system is suitable for lateral channels up to 102 m long and up to 114 cm wide. The drive unit is installed at the end of the channel and pulls on a solid chain with various options for additional equipment. The fittings, construction and design of this system are all specifically intended for heavy loads and constant operation. Its excellent cleaning and transport performance guarantees reliability and a long service life.



Inclined conveyors

- Solid construction: 100 % steel with epoxy resin coating
- Adjustable reach: from 3 to 23 meters in 1.5 meter increments
- Various models: fixed, pivoting and suspended
- Customizable: variety of drive units, chain wheels, chains, deflection rollers, etc. available





Waiting area flush

Depending on the functions and layout, the waiting area plays an important role in herd hygiene and therefore in milk production in general. A flush system in this area cleans the floors very effectively, ensuring that first-class hygiene conditions are maintained in areas such as the return path.

The system rinses the areas quickly and efficiently with fresh or recycled water and is more effective than a dung scraper. The waiting area flush system from GEA can be expanded on a modular basis and can be customised to suit any barn layout.



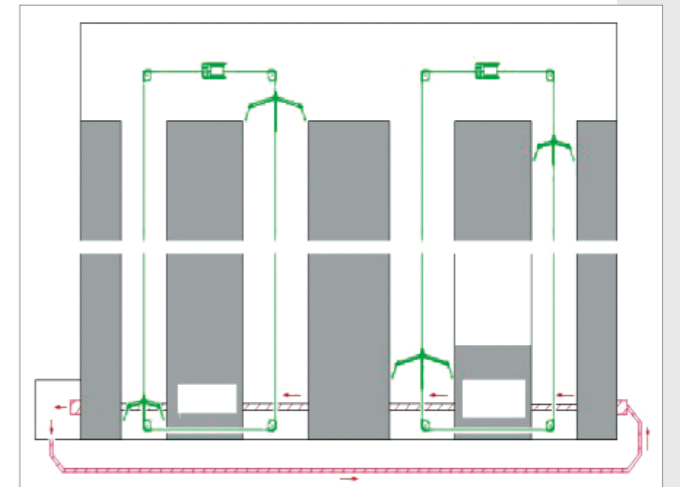
Your benefits at a glance:

- Cleaner waiting area due to regular cleaning
- Quicker and cleaner than a dung scraper
- Capable of rinsing several areas, such as the return path areas
- Uses recycled or fresh water
- Easy to use

Flush Flume / lateral channel

A flush system can be combined with a matching manure removal system for the lateral channel to form a closed circulation system. This reduces the workload significantly and increases efficiency to the maximum, while providing excellent cleaning and transportation performance.

GEA offers the Flush Flume system for the lateral channel as part of its product line. Its pump has an extremely high throughput and can pump water at a rate of 11,000 l/min, making the system extremely powerful. The fully automatic Flush Flume system is also easy to use and maintain and is very compact, ensuring a long service life.



Your benefits at a glance:

- Cleaner waiting area due to regular cleaning
- Quicker and cleaner than a dung scraper
- Capable of rinsing several areas, such as the return path areas
- Uses recycled or fresh water
- Easy to use

Stallflush

We recommend the Stallflush system from our product line, which cleans the barn by rinsing it with fresh or recycled water. The system's pump requires very little maintenance and is fitted with a powerful belt drive. The robust, welded pump housing ensures a long service life. Like all items the Stallflush is characterised by its simplicity, effectiveness and high quality standards.

Due to our many years of experience in the field, we can design reliable Stallflush systems for all kinds of situations.



Your benefits at a glance:

- High level of cleaning performance
- Effective and low-maintenance
- Easy to use



MANURE PROCESSING

Available GEA models are suitable for any type of dairy manure collected either from free stall barn or from tied stall barn. Discover the features of our single pumps to manage manure in a traditional or progressive manner.



Pumps and agitators

GEA is the leading manufacturer in the manure processing sector and can therefore offer you an unrivalled selection of products that all benefit from the high quality, sturdy construction required for professional use. Our product line has a particularly extensive selection.

Pumps and agitators play a key role in the further processing of the collected manure. The most suitable machine for your farm depends on the viscosity of the well-agitated manure.

The GEA range contains the following pump systems and agitators:

- Piston pumps
- Electric pumps
- Tractor-driven (PTO) pumps
- Tractor-driven (PTO) agitators
- Electric agitators



Piston pumps

Electromix pump

This high-performance pump is a part of an overall system that also includes a compatible agitator from our product line. The Electromix pump is designed for viscous cattle manure and long pumping distances of up to 1 km. For a throughput of 40m³/h, the motor only requires 3.8 or 5.5 kW of power, which makes the pump system very economical. The pistons and pump housing are made from stainless steel to ensure low wear. This also provides considerable advantages in terms of maintenance, durability and robustness.



The hydraulic piston pumps offered by GEA have the particularity to transfer dairy manure through underground line up to your main storage or over long distance to treat manure in other facilities.



Your benefits at a glance:

- High-performance pump for viscous manure
- For pumping distances of up to 1 km
- Economical due to an efficient motor load of 4 or 5.5 kW
- Can be combined with the Electromix agitator to form a full system

Magnum

The typical use case for the Magnum pump is for the removal of cattle manure from a stanchion barn where the viscosity may be as much as 127 mm and the manure may contain straw or wood shavings. The mechanical discharge system permits even operation of the pump without excessive hydraulic pressure on the relevant components. With its funnel construction, the Magnum piston pump requires minimum effort to install and can be used in various types of building.



Your benefits at a glance:

- For manure with a viscosity of up to 127 mm and a high straw content
- Funnel construction for simple installation in many different types of buildings
- Mechanical discharge system without excessive hydraulic pressure
- Easy to maintain and operate

Futuro

This piston pump features integrated urethane seals and cannot be beaten in terms of safety and cleanliness due to its unique flap design. In the suction phase, a vacuum opens the inlet flap so that the manure can be sucked into the pump pipe. In the evacuation phase, high pressure closes the inlet flap and opens the spring-loaded outlet flap. The manure is pushed through the discharge pipe. The manure may have a viscosity of up to 127 mm and the system tolerates sand or wood shaving bedding. The pump housing and pistons of the Futuro are made from stainless steel to ensure a long service life and reliability. The pump is designed to be easy to maintain and simple to operate.



Your benefits at a glance:

- For extremely viscous manure with a viscosity of up to 127 mm
- Also suitable for manure containing sand bedding
- Particularly safe and clean due to its flap design with sharp edges and urethane seals
- Pump housing and pistons are made from stainless steel



Rotary piston pumps

DK rotary piston pump

This effective and robust pump can be driven by either a PTO shaft or by an electric motor, meaning that it can be used for various applications. Its pressure output ranges from 4 - 10 bar, enabling it to pump manure containing up to 30% solids. Depending on the consistency, the flow rate ranges from 450 - 6,000 l/min. The DK rotary piston pump is designed to be very robust, durable and easy to use.



Your benefits at a glance:

- Pump rate of 450 to 6,000 l/min
- Drive with PTO shaft or electric motor
- Pressure output 4 - 10 bar

PTO pumps for tractors

The regenerative PTO tractor pump has been proven to be effective in daily use for pumping manure over long distances. Its compact design saves on space and makes the robust pump flexible enough to be used anywhere. It can also be used without an external power supply if necessary.



Your benefits at a glance:

- Rotary piston pump
- Easy to install and use
- Compact dimensions, requires little space
- Universal and flexible, for daily use
- Optional stone catcher

Electric pumps

Electric 4" vertical pump

The electric 4" vertical pump with an average through-put of 255 m³/h is normally used to transport cattle manure with a consistency of up to 13 mm from the collection pit to the main collection tank. It benefits from a long service life and features a belt drive to ensure excellent motor output. Its ease of use, low maintenance requirements and low power uptake are further significant features. The unique design of the agitator includes a non-swirling nozzle to ensure the manure is mixed effectively, leading to high productivity in the manure management system.



Your benefits at a glance:

- For cattle manure with a consistency of up to 13 mm
- Energy-efficient, high-powered belt drive
- Non-swirling nozzle for very effective agitation

Electric 4" waste water pump

The electric 4" waste water pump transports waste water or pig manure with a maximum viscosity of 10 mm. The pump features both an optional pivoting nozzle and a powerful drive and therefore ensures fast, effective and clean mixing over a broad area. The electric 4" waste water pump is very easy to use and requires very little maintenance. The pump motor is also very energy-efficient when used at maximum capacity.



Your benefits at a glance:

- Transports waste water or pig manure with a viscosity of up to 10 mm
- Optional nozzle and powerful drive
- Economical due to low power consumption



Electric 4" Agi Pompe®

The Electric 4" Agi Pompe® meets all of the requirements of a professional standard pump for cattle and pig manure containing straw: Agitating, chopping and pumping in one. The special design of the agitator mechanism with a propeller and knife set chops up the straw in the manure during transport and therefore increases the pumping capacity. The pumping rate for liquid manure is up to 3,600 l/min, and the V-belt drive ensures safe operation at flexible speeds. This pump is typically used to agitate manure and transfer it from the intermediate tank to the manure pit. A unique advantage: The Agi Pompe® pumps and agitates the manure simultaneously. The electric 4" Agi Pompe® is also available as a pontoon pump.



- Your benefits at a glance:**
- For manure containing straw
 - V-belt drive ensures safe operation at flexible speeds
 - Simultaneous pumping and agitation
 - Pump rate of up to 3,600 l/min for liquid manure
 - Agitator mechanism with propeller and knife set chops up the remaining straw

Electric 8" flush pump

The electric 8" flush pump has been specially designed for use in flush systems. Using very thin cattle manure, the high-throughput pump cleans areas such as the waiting area, walkways or lateral channel flush systems.

It is easy to maintain due to its central lubrication system. Further features of the electric 8" flush pump are its simple operation and robust design which ensures a long service life. Due to its low-vibration bearing, it generates very little noise when in operation despite its high pump rate of 11,000 l/min. The electric 8" flush pump is also available as a pontoon pump.

- Your benefits at a glance:**
- Especially designed for flush systems in walkways, the waiting area and lateral channels
 - Pump with a high throughput for very thin manure at up to 11,000 l/m
 - Simple maintenance due to central lubrication system



Electric 4" high pressure vertical pump

The electric 4" high pressure vertical pump from our product line is a powerful pump that can provide a flow rate of 5,000 l/min. It is typically used to pump flushing liquid from greater distances and in applications where a higher pump pressure is required. This pump is easy to maintain due to its central lubrication system. In addition, the low-vibration bearing ensures that it generates little noise when in operation. The electric 4" high-pressure vertical pump is also available as a pontoon pump.



✓ Your benefits at a glance:

- High throughput with a flow rate of 5,000 l/min
- For pumping flushing liquid from long distances
- High pumping pressure
- Simple maintenance due to central lubrication system

V vertical pump

The V vertical pump is incredibly powerful with a throughput of 12,000 l/min, even when agitating and pumping extremely viscous manure. The sturdy, frame-mounted design means that the pump is also capable of coping with the high pressure of daily use. The V vertical pump is extremely robust, very reliable and a good choice for applications where there is a need for a high throughput.



✓ Your benefits at a glance:

- Top throughput of up to 12,000 l/min
- Agitates and pumps extremely viscous manure
- Sturdy, frame-mounted design



AT submersible motor pump

Pumps used in collecting pools and manure pits must be easy to operate, feature a well thought-out design and a high level of efficiency in protection class IP68. The AT submersible motor pump fulfils all of these requirements. Its integrated chopping unit completely eliminates elements that would otherwise block the pipe. The AT submersible motor pump stands out from the competition due to its low space requirements and simple installation process. Which is why it has been installed thousands of times across the agricultural sector.



✓ Your benefits at a glance:

- For collecting pools and manure pits
- Requires little space and is easy to install
- Installed thousands of times across the agricultural industry

Tractor-driven PTO pumps

6" Agi-Pompe®

Capable of agitating at up to 80,000 l/min and with a pumping rate of up to 11,000 l/min, the 6" Agi Pompe® achieves extreme levels of efficiency and excellent homogenization results. Fast, simultaneous pumping and agitation allows you to work quickly and effectively on the spot. The pump also benefits from all of the advantages of our product line, such as sturdy construction and high durability.



Your benefits at a glance:

- Agitates at up to 80,000 l/min
- Simultaneous pumping and agitation
- Central lubrication system allows maintenance to be carried out from above

6" Super Pump

This high-performance pump is able to process up to 10,000 l/min and therefore achieves a very high throughput. The unique design of the mixing nozzle enables the manure to be homogenized effectively. The 6" Super Pump is simple to use and requires very little maintenance. Its sturdy design ensures a long service life.



Your benefits at a glance:

- Effective
- Robust
- Low-maintenance

3-point suspension Agi-Pompe®

This pump is suited for fast homogenization of liquid manure with a 120 HP tractor at 540 revs/min. Its high-performance drive shaft for continuous operation, robust welded steel pump housing and welded impeller combine to ensure that the 3-point suspension Agi Pompe® benefits from a long service life. Special, non-swirling nozzles ensure fast and effective mixing. The pump also benefits from all of the features of the GEA product line, such as simple operation, low maintenance and durability.



Your benefits at a glance:

- Fast homogenisation of liquid manure
- High-performance drive system for continuous operation
- Welded steel pump housing and steel impeller
- Non-swirling nozzles

3-point suspension 6"/8" Super Pump

The 3-point suspension 6" or 8" Super Pump easily handles the transport and homogenization of viscous cattle manure with a high straw content. With its heavy-duty drive, the pump homogenizes liquid manure in a concrete pit with a 90 HP tractor at only 540 revs/min. The wear-resistant pump housing and base plate are also suitable for pumping manure that contains sand. Like all pumps in our product line, the 3-point suspension Super Pump is simple to operate, low-maintenance, powerful and benefits from sturdy construction.



Your benefits at a glance:

- Suitable for viscous cattle manure with a high straw content
- Also suitable for manure containing sand due to its wear-resistant pump housing and base plate
- Low-maintenance and easy to operate



Lagoon Agi-Pompe®

The Agi Pompe® for lagoons is a specialized variant of the classic pump. It provides fast homogenization of manure in lagoons: with a 120 HP tractor at 540 revs/ min or a 160 HP tractor at 1,000 revs/min. The pump features a wide nozzle with double-jointed hinge, chassis with pneumatic tyres, 8" pump pressure ports, multi-directional valves and loading pipes for faster loading. Add to this the many fittings and options available, and this Agi Pompe® variant becomes the perfect specialist for manure management with lagoons.



Your benefits at a glance:

- Specialised lagoon variant of our classic pump
- Homogenisation with a 120 HP tractor at 540 revs/min or a 160 HP tractor at 1,000 revs/min
- Wide nozzle with double-jointed hinge
- 8" pump pressure ports, multi-directional valves and loading pipes for faster loading

6"/8" Lagoon Super Pump

The lagoon variant of the Super Pump is capable of processing heavy, viscous manure. Its wear-resistant pump housing and base plate mean it can also cope with sandy manure. Homogenisation is carried out using a wide mixing nozzle with a double-jointed hinge, resulting in an effective mixture. Either a 90 HP tractor at 540 revs/min or a 180 HP tractor at 1,000 revs/min can be used for this. Its equipment package includes a chassis with pneumatic tyres, 6" or 8" pump pressure ports, multi-directional valves and loading pipes for faster loading, as well as optional solenoid valves for 2-pump operation for any tractor with a hydraulic connection.



Your benefits at a glance:

- Specialised lagoon variant of our classic pump
- Homogenisation with a 90 HP tractor at 540 revs/min or a 180 HP tractor at 1,000 revs/min
- Chassis with pneumatic tyres
- Optional solenoid valves for 2-pump operation

Electromix agitator

This agitator is a part of a complete system that also includes a compatible pump. The powerful design of the system enables the homogenization of viscous and liquid manure for evacuation across long distances. The Electromix agitator is also often used on its own to agitate manure pits at the barn. The oil-filled gearbox of the agitator ensures a high level of safety and maximum service life. This product combines the high product standards of our product line in terms of ease of operation, maintenance and long service life with a practical design.



Your benefits at a glance:

- For effective agitation of manure pits
- Can be used in a system with the Electromix pump for the homogenisation and evacuation of viscous and liquid manure
- Can be used as a stand-alone product in barn manure pits
- Oil-filled gearbox for safety and durability





Manure separation

Energy efficiency, comprehensive recycling management and environmental compatibility are all challenges currently being faced by the agricultural industry, and dairy farms in particular. The separation of liquid and solid materials in manure is of particular importance in this context.

Separation allows the water to be recycled. A water savings which not only benefits the farm financially, but also benefits the environment. The extracted solids can in turn be re-used

as compost and, after appropriate treatment, even as bedding. Separation significantly reduces the amount of storage space required.

GEA is attuned to the various demands of your manure management system. From a two-stage separator for manure rinsed away by flush systems to a combined roller press and dewaterer, our product line offers a range of optimal separation solutions: tailored to your needs and space requirements. Please contact your nearest GEA specialist center.

PROFITABILITY INCREASES

Once viewed as a necessary evil, today intelligent manure management ensures numerous advantages for the farm and livestock operation. In addition to being a valuable source of plant nutrients, manure can be treated so that you will see your farm's profitability increase through the years.



Your benefits at a glance:

- Recycling management: recycling water, generating compost and bedding
- Hygiene: preventing bacterial infections from outside
- Logistics: lower storage capacities, lower transport costs
- Cost savings: less need for fresh water, less bedding needs to be purchased
- Animal-friendliness: bedding is well accepted, good hygiene standards

Curved sieve separator

Our curved sieve separator easily copes with the daily manure volumes of up to 3,000 animals. Various sieve openings filter large and tiny residues from the mass and ensure that as much of the solid material is collected as possible.

Cleaning the curved sieve separator is very easy due to its intelligent curved design and high-quality stainless steel construction. The device also provides all of the benefits of our product line: durability, robustness and ease of maintenance.



Your benefits at a glance:

- Filters large and tiny residues
- Intelligent curved shape, made from high-quality stainless steel
- Can cope with the daily manure volumes of up to 3,000 animals collected via flush systems



Two-stage separator

This device separates liquids from solid materials in a two-stage process and prepares the fibrous material generated for further use as bedding or for composting. The two-stage separator is constructed in a vertical curved form and is made from high-quality stainless steel which slows the manure flow and increases the separation effect.

As the device reliably filters the service water, the water quality is considerably improved and the cleaning performance of the flush system increases despite a reduction in the input of fresh water. The two-roller press reliably handles the separation of the solid materials without negatively affecting the processing system.



Your benefits at a glance:

- Separates flush liquids from straw elements
- Prepares fibrous material for use as bedding or for composting
- Entirely stainless steel construction

Vertical dewaterer

The vertical dewaterer combines with an equalisation tank to form the separation component of a comprehensive system solution. The vertical design allows an unpressurised, rotating auger and natural gravity to effectively separate the solid materials from the manure and extract the water. The extracted liquid can be recycled back into the water circuit of a flush system, thereby reducing the fresh water input required. An ecologically and economically attractive solution.



Your benefits at a glance:

- Forms a system solution when combined with an equalisation tank
- Dewatering through the use of natural gravity
- Ecologically sound and economical due to water recycling feature



XPress – modular roller system

The XPress modular roller system was specially developed for pressing manure previously dewatered by the XTract. Depending on the configuration, manure can be processed at a rate of between 75 and 662 l/min, and the possible amount of solid material can range from 26 % to 34 %. Rubber rollers and stainless steel sieve rollers ensure maximum moisture reduction in the straw element while maintaining low energy consumption.



Your benefits at a glance:

- Can be used with the XTract to form a system
- Processes manure at between 75 and 662 l/min
- Low power consumption due to rubber rollers and stainless steel sieve rollers

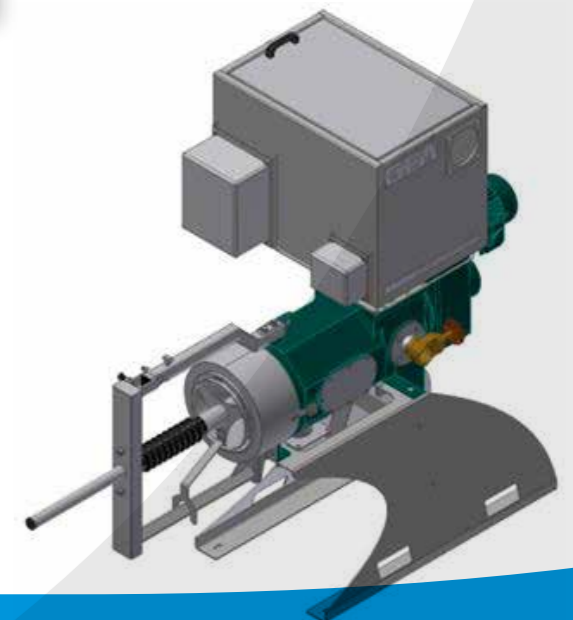


XScrew screw separator

A screw is used to press the manure within a sturdy housing. The liquid can be pumped out more easily and transported away. This simplifies spreading. The dry matter can then be used for efficient composting or as economical bedding.

XScrew Heavy Duty

Our Heavy Duty model features a 3 kW electric motor, a two-part filter and a longer screw. It can separate solid contents of over 30 %, and enables the end product to be reused as bedding.





PERFORMANCE AND RELIABILITY
It's what GEA is offering through our Liquid Manure Spreader and Tool Bar product lines.



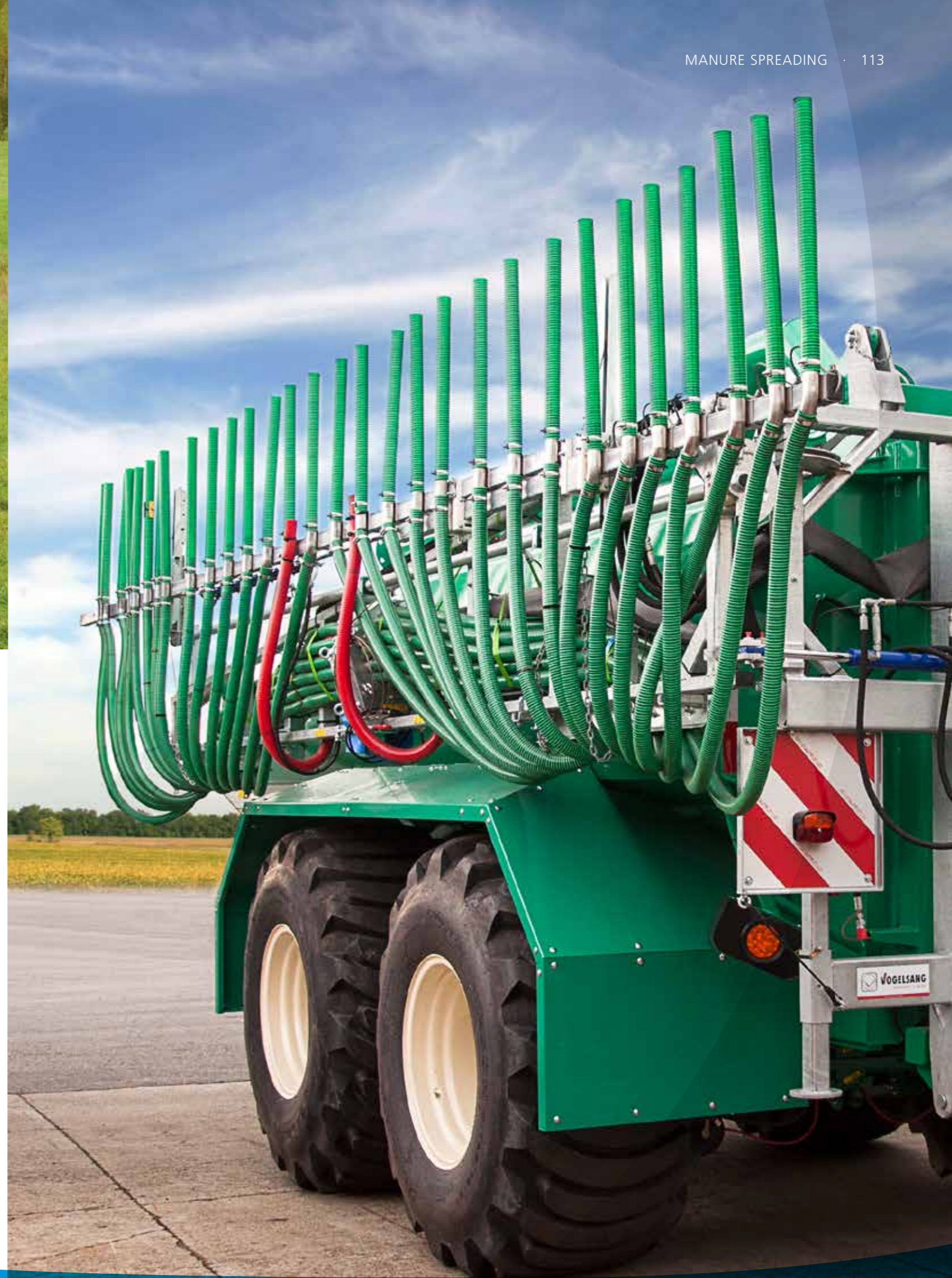
Manure spreading

Spreading manure onto the field is the final part in the overall process of dairy farming. GEA has many years of experience in this area and, as well as manure tankers in various sizes and designs, we also offer a variety of tools so that you can choose the right system for you, depending on the type of spreading you require.

Regardless of whether you are spreading manure on corn fields which may or may not contain harvest residues,

if you are working under windy conditions, if you need to spread fibre-free manure within a small radius or viscous manure with long fibrous material, you will find the right tool at GEA. We have an extensive selection available in our product portfolio:

- Manure distribution systems for fibre-free and viscous manure
- Various types of cultivators
- Tools with injectors to place the manure into the ground
- Toolbar with hose



EL 44 - Manure tanker with steerable axles

The EL 44 represents all of the GEA manure tankers with the typically high-quality finish of our product line. As manure tankers have to be able to be used on any kind of surface, our tankers are fitted with patented manure spreading technology and a hydraulic suspension and power steering unit which adjust to the turning angle of the tractor. This leads to a high level of driver comfort, excellent maneuverability and control on all kinds of surfaces. Easily accessible lubrication points and openings make any maintenance and cleaning work child's play. A wide range of optional accessories for almost any application are available both for the EL 44 and our other manure tankers.



Your benefits at a glance:

- Sturdy and high-quality construction
- High level of driver comfort and maneuverability
- Hydraulic suspension and power steering
- Proven and patented technology



We live our values.

Excellence • Passion • Integrity • Responsibility • GEA-versity

GEA is a global technology company with multi-billion euro sales operations in more than 50 countries. Founded in 1881 the company is one of the largest providers of innovative equipment and process technology. GEA is listed in the STOXX® Europe 600 Index. In addition, the company is included in selected MSCI Global Sustainability Indexes.

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