



# GEA Monobox

Uniquely efficient –  
automated milking at any time

# Ideal prospects for milk production

The GEA Monobox gives professional dairy producers the greatest advantages in automated milking, accommodating up to 70 cows per box. It also allows for an individualized approach to maximizing your farm's operational efficiency because this exceedingly compact milking station can be seamlessly integrated into your preferred housing design. In addition to premium quality milk, the Monobox ensures outstanding teat cleaning, an optimal milk harvest process, and a stall designed for comfort to keep every cow in the herd healthy, productive, and profitable.



### ○ Premium milk quality

Optimal milk harvest, superior udder care and impeccable hygiene from teat to tank

### ○ Effective work environment

Ergonomic workspace with user-friendly display and navigation

### ○ Non-stop productivity

Outstanding system reliability ensures efficient cow flow and allows effective workflows

### ○ Future-proof partnership

Top-class, innovative service packages from GEA centers of expertise around the world

### ○ Reliable investment

Maximum yield with minimal expenditure of energy, resources and maintenance





# Premium milk quality

- Optimal milk harvest
- Superior udder and teat care
- Proactive hygiene management
- Smooth and safe milk transportation



## Consistent precision starts in the cup

The milking stall module of the Monobox works consistently and independently, day or night. Cows are creatures of habit and welcome the standardized, precise milking routine that takes place in the openly designed box. Each step – from teat cup attachment to teat stimulation, cleaning or pre-dipping in applicable countries, drying, pre-milking and milking, all the way through to post-dipping – is part of a uniform, quick and comfortable process that takes place in-liner – in one single attachment, for each quarter. The consistent routine, impeccable hygiene and gentle protection within the teat cup are the keys to excellent milk quality!



Attachment - Stimulation



Perfect teat protection from the beginning:  
With the Monobox, complete milking procedures take place "in-liner", inside the teat cup in one single attachment. Teat stimulation begins as soon as the teat cup attaches, gently preparing the udder for milking.

Cleaning - Fore-stripping



Hygienically safe:  
Once the teat cup is attached, cleaning or pre-dipping begins depending upon the country-specific regulations, and is followed by drying and fore-stripping. A system of milk sensors immediately begins analyzing the milk, looking at conductivity, color, and temperature.

Milking



Optimal milk harvest:  
While milking, the light-weight, suspended MilkRack and milking cluster can easily adapt to the cow's natural movements, exerting no unnecessary leverage on the udder. Additional sensors monitoring the flow from each quarter while measuring milk volume.

Post-dipping - Detachment



Optimal udder care:  
When the individual quarter finishes milking, the post-dipping process begins. The dipping agent is evenly and economically distributed throughout the fine pores and wrinkles of the teat skin, providing ideal protection against mastitis pathogens. Through automated udder health care, each cow exits the Monobox perfectly protected for the next milking.

### Effective hygiene management

The Monobox keeps the teat cups clean and ready for the next cow. After detachment, the MilkRack immediately swings under the CIP. Here, the teat cups are cleaned externally and disinfected internally using water, peracetic acid and compressed air plus dipping residues are completely rinsed out. High-grade, safe and effective intermediate disinfection ensures cross-contamination between cows is averted!



### Intelligent internal logistics

While the unit conveniently milks your cows for you, the Monobox also tends to the steady flow of perfectly fresh milk. The milk receiver, valves and frequency-controlled pumps in the receiver unit ensure that your high-quality milk continues smoothly to the bulk tank.





### The perfect climate for dairy production

GEA's cooling systems help you to optimize your farm's success through intelligent, sustainable technology in clean, hygienic surroundings. The Monobox's frequency-controlled pumps transfer your milk steadily and gently to the milk room.

Beyond that, GEA offers a variety of options to create the ideal cooling system to suit your facility's size and needs. From plate coolers to storage tanks and heat recovery – GEA cooling solutions allow you to design a system as unique and individual as your farm.

And with our buffer and bulk tanks, your valuable milk stays safe and cool until it's time for pick-up..



- Cows appreciate the calm, consistent milking routine provided by the Monobox
- Optimal milk harvest and subsequent post-dipping sustain the long-term health of the entire herd
- GEA cooling systems maximize your savings potential, allowing you to tank up returns while giving high energy prices the cold shoulder





# Effective workplace



- Ergonomic workplace and maximum comfort for operator and cow
- Real-time display and user-friendly navigation
- Flexible scheduling of managerial tasks
- Smooth workflows

## The appeal of modern-day management

With its innovative functions, GEA's Monobox allows you to design and organise the tasks of daily herd management more efficiently than ever before. Just tap the touchscreen to see key production data. Because the unit can be integrated seamlessly into your existing barn design, you can monitor and tend to selected animals quickly and easily. All activities can be quickly completed in a clean and efficient working environment with the highest of technology.

### The smart manager's high-tech tool

The GEA Monobox incorporates highly innovative functions on a large touchscreen display. In Live View mode, real-time events can be monitored in easy-to-read graphs. You can also effortlessly switch the control panel to monitor all the key production parameters. The intuitive interface greatly simplifies handling, and the system automatically alerts you to any changes. With such sophisticated software, you'll manage your herd better than ever!



### Focus on the essentials

With an unobstructed view of each cow and easy access to the udder, the operator can freely intervene in the milking process at any time. A system-integrated mechanical milking arm shifts the milking cluster into an ideal position below the cow so each teat cup can attach in a matter of seconds. Kick-proof LED lighting illuminates the cow's udder for full visibility. Your special needs cows can be handled more efficiently and comfortably than ever before.





- Modern, computerized workplace with mobile access upon request
- Smooth processes, healthy herd performance and consistent milk yield are direct pay-offs, and the return on your Monobox investment is rapidly reached



# Non-stop productivity

- High system reliability
- Effective workflows and flexible scheduling
- Total transparency of resource usage
- Innovative service packages and minimal downtimes



## GEA's philosophy for complete success

You can achieve high throughput by letting your cows decide when to go to the Monobox. Soon after installation, a sense of calm settles over the barn, and cows grow quickly accustomed to a relaxed, rhythmic cycle of feeding, resting and milking. Automated milking frees up time and resources, making daily planning more flexible and routines more effective. Enhanced tools, such as gate control and manual support components, make it especially easy to tend to problem cows that require special attention. Whether you integrate one Monobox or more into your operation, all milking activities can be conveniently controlled from one central milking and management center.

### Easy to enter and exit – and provides a perfect fit during milking

The spacious entrance area is designed to lead each cow into an ideal position for attachment. When the gate closes, the preset box length automatically adjusts the feeding trough to accommodate each animal for a perfect and comfortable fit. The feeding trough will be covered when milking is finished. Depending on your barn layout, only the trough either opens for a straight exit or a side gate opens for a sideways exit, allowing your cow to return to the barn.



### Safe and speedy attachment

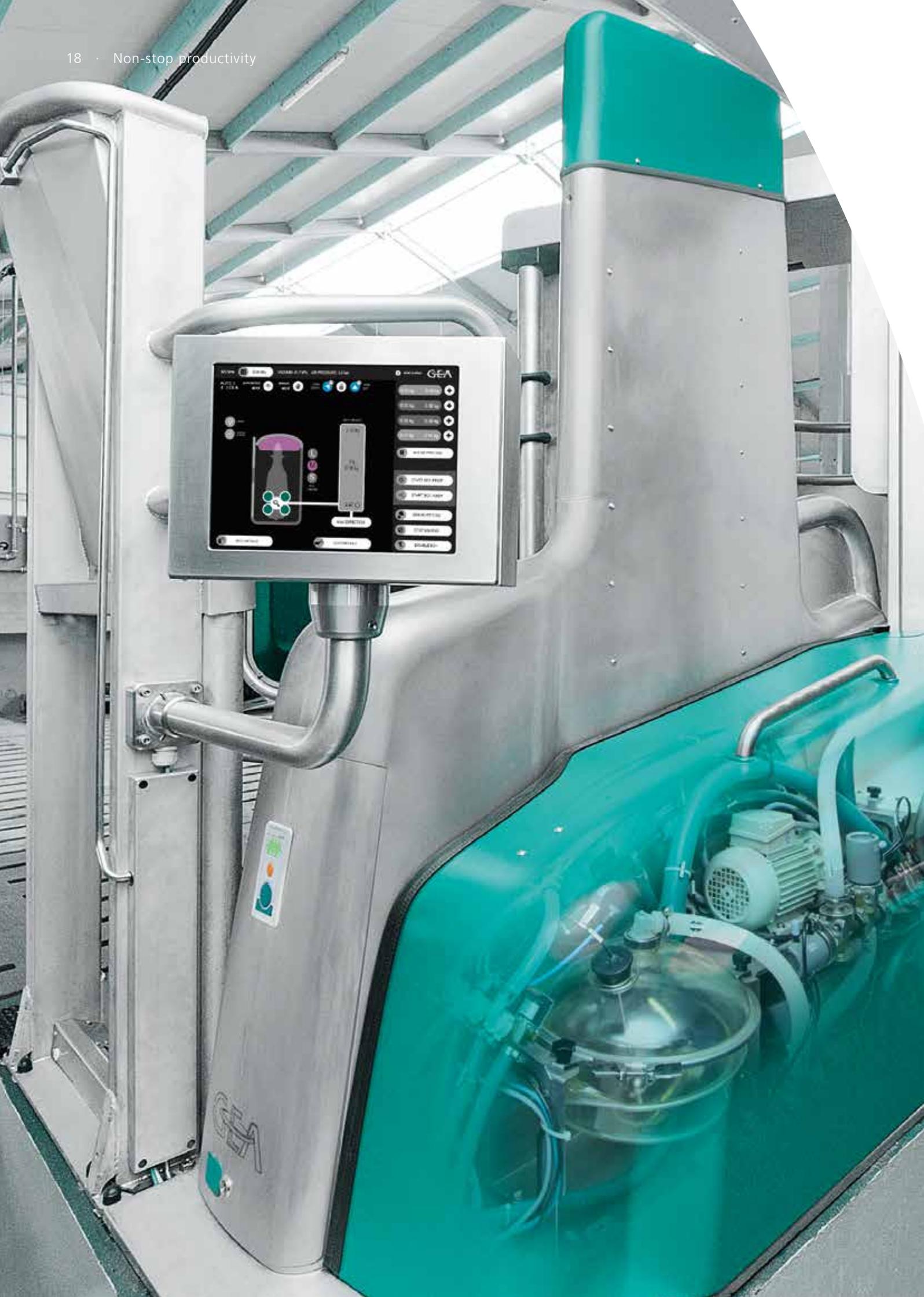
A Time of Flight (TOF) camera on the MilkRack detects the position of the cow's teats. To automatically and precisely applying the teat cups, on the teats. This TOF principle ensures maximum attachment reliability in a matter of seconds.



### A MilkRack with high-tech features

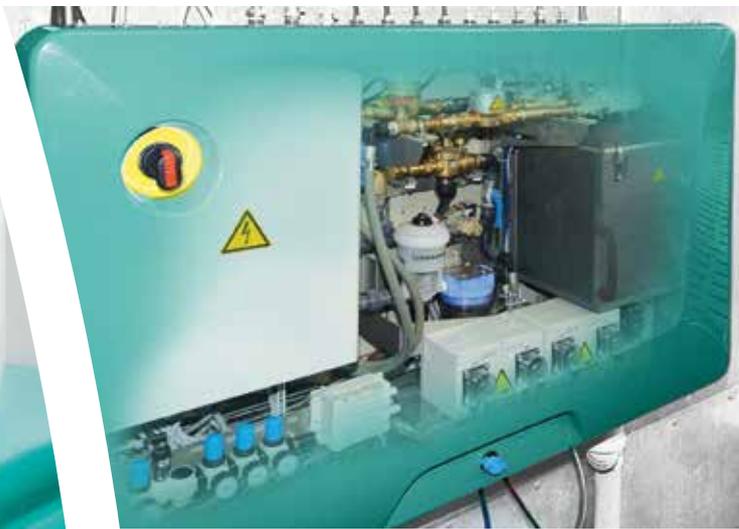
Extremely robust and reliable, GEA's MilkRack is also incredibly lightweight. Its ultra-flexible plastic cover keeps the equipment clean, and if the cow kicks, a feedback mechanism enables the mechanical milking arm to maneuver away. The milking arms can be adjusted flexibly or fixed, with no possibility of the teat cups touching the floor. That helps to prevent contamination and provide an optimal environment for clean, hygienic milk production.





### No interruption in production

Even while the bulk tank is being emptied and cleaned, there's no interruption to production. The automated milking system simply continues collecting the milk in an interim buffer tank, and the Monobox remains available for use. The animals can maintain their usual rhythm, and not a drop of milk is lost!



### Space-saving ingenuity

The compact, space-saving supply unit contains all the components that provide the Monobox with cleaning, dipping and disinfection agents as well as water supply and compressed air. It also controls the flow of milk to the filter, buffer tank and bulk tank.

### Ensuring convenient calf milk management

The Monobox makes calf management easy. With just a few clicks, the milk of the cow can be separated and given to her calf, either by bucket or milk taxi. The system cleverly ensures that the herd's offspring are well nourished; getting all the nutrients they need to grow healthy and strong.



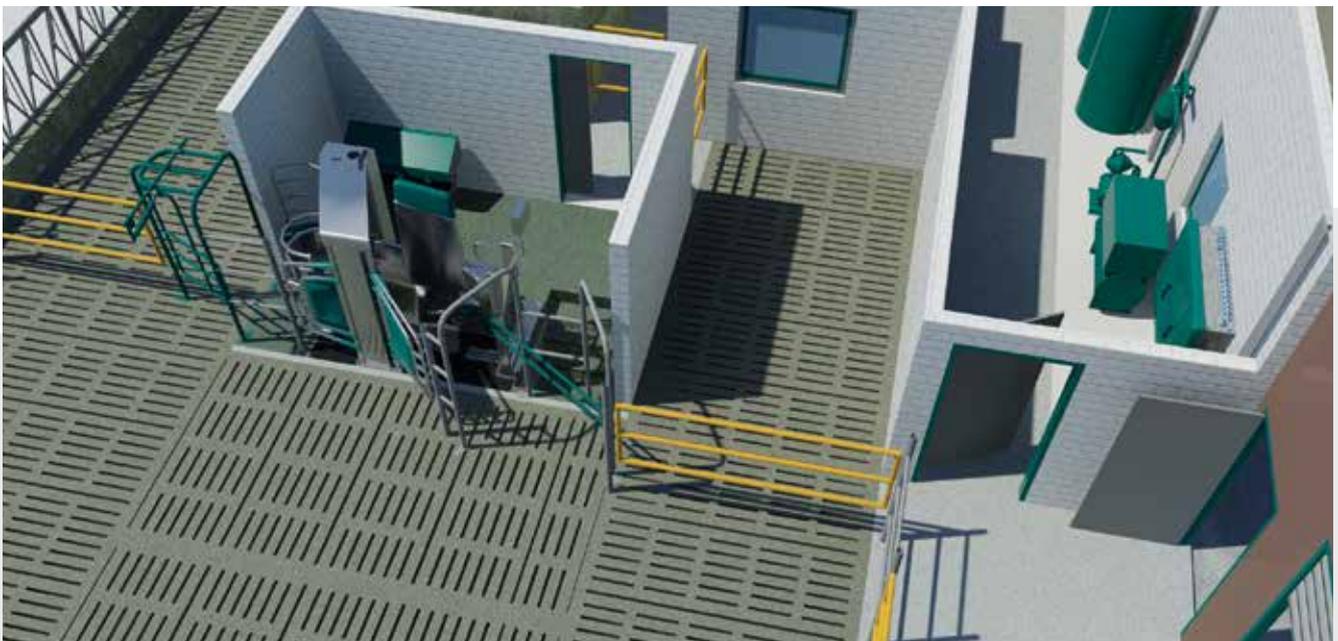
### The perfect fit for your barn

Enhance your barn set-up to make the most of every aspect of all your work routines. The Monobox can be integrated seamlessly into your preferred concept. The compact, yet open module provides spacious comfort for each animal, and in such a calm, accommodating environment, cows quickly grow accustomed to a relaxed, rhythmic cycle of feeding, resting and milking. Optional gate control solutions steer animals that require special attention to the sections of the barn where you need them. With the Monobox to assist you, your daily herd management activities can be accomplished in no time.



Selective guided cow traffic systems provide clear separation of the housing areas with the help of pre-selection, creating an optimal balance of feeding, resting and milking.

Individual barn planning can also enable free animal traffic. In this case, the cows have unrestricted access to the milking system, the feeding table and the freestalls at any time.





- A - Office
- B - Milk room
- C - Technical equipment room
- D - Selection and treatment area
- E - Feed alley
- F - Calving / fresh cow area
- G1 - Monobox right version
- G2 - Monobox left version
- H - Waiting area
- I - Pre-selection
- J - Selection after milking
- K - Barn area
- L - Supply Unit



- Economic use of labor creates flexibility for daily planning and helps to streamline routines
- Tools for monitoring and measurement keep you on top of resource consumption, maintaining full transparency at a glance



# Future-proof partnership

- Premium service expertise
- Global network
- Innovative customer care packages and online service



## Shared growth and profitability around the world

Our certified GEA dealers work side-by-side with dairy producers around the world, ensuring that we as a manufacturer stay close to the industry's growing and changing needs. Our solutions and services are ideally designed to suit individual requirements, often exceeding expectations. We – as your manufacturer – along with our GEA distribution partners, work hand-in-hand with you to achieve profitability and growth together.

### Top technology, service-friendly design

When it comes to service and maintenance, the Monobox gives you peace of mind. GEA's robust and proven milking technology guarantees maximum performance and the longest operating times. Our easy-to-maintain design accommodates direct access to the components during operation. Online diagnostics can be performed to maximize operations, and spare parts can be replaced with short downtimes. GEA provides the best conditions for quick, low-cost maintenance to help keep downtime to a minimum!



### Your reliable partner from the outset

Your decision to use the Monobox marks the beginning of a rewarding relationship with GEA as your partner. From the outset you'll experience ideal customer care through our global and nationwide network of certified GEA dealers. A service partner near you advises in all matters of planning, maximizing production processes and herd management, even before installation. When the system is up and running, GEA's highly trained staff ensures continuous support through a variety of optional service packages:

- Quick, competent help at your side
- Regularly scheduled support and maintenance according to your service package
- 24/7 helpdesk
- Spare parts stock and supply
- Ongoing training of service personnel to ensure consistent knowledge-sharing and the highest level of expertise

### FarmView 2.0

Take advantage of our software solution to gain detailed insight into your Monobox's performance and to receive instant notification of any discrepancies. Combined with a service agreement from your GEA center of expertise, you'll also benefit from the integrated service calendar that notifies you of scheduled maintenance dates. Log reports record all maintenance work and daily performance characteristics. Potential areas of optimization can be detected remotely and form the basis for developing an improved strategic solution. You'll reap the benefits of utilizing all of your system's capabilities and the fastest response times.



- Innovative service packages ensure minimum downtime
- Maximum yield with minimal expenditure of energy, resources and maintenance
- Expert consulting 365 days a year
- One-of-a-kind milking and management center with GEA's renowned dairy technology expertise



# Notes

A series of horizontal grey lines for writing notes, arranged in a list format. The lines are evenly spaced and extend across most of the page width, leaving a margin on the right side. The lines are slightly tapered at the right end, following the curve of the page's edge.

## We live our values.

Excellence • Passion • Integrity • Responsibility • GEA-versity

GEA Group is a global engineering company with multi-billion euro sales and operations in more than 50 countries. Founded in 1881, the company is one of the largest providers of innovative equipment and process technology. GEA Group is listed in the STOXX® Europe 600 Index.

### GEA Deutschland

GEA Farm Technologies GmbH

Siemensstraße 25 - 27

D-59199 Bönen

Tel +49 23 83 93 7-0

Fax +49 23 83 93 8-0

[info@gea.com](mailto:info@gea.com)

[gea.com](http://gea.com)