



GEA FEEDING ROBOT DAIRYFEED F4500

Implementing feeding strategies with precision –
with the GEA DairyFeed F4500

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Optimize milk production, animal health, save time and reduce your workload.

Feeding is the biggest cost factor in managing a farm. Here, the quality, frequency and optimization of mixed rations for each group of cows are decisive to milk production. This is where farmers want more flexibility for their daily routines as well as precise management of their feeding strategy.

The GEA DairyFeed F4500 feeding robot combines these wishes with GEA's enormous experience in automated feeding, enabling farmers to feed their cows optimally - the basis for a profitable dairy farm. The DairyFeed F4500 has a daily capacity of 15 tons.

Precise mapping for reliable navigation

DairyFeed F4500 is fitted with navigation sensors, allowing it to create a precise map of your farm and to work out the ideal



routes for distributing feed. This means it can constantly localise its position, recognise obstacles and avoid collisions. It can also safely navigate between numerous barns and drive on uneven floors and on inclines of up to 10%. Your advantage: With the F4500 no major farm modifications are needed.

“After the installation of the GEA Feeding Robot, milk production jumped from 28 to 36 liters per cow per day. There is no longer competition at the feeding table between the cows, even heifers have easy access to fresh feed and the opportunity to prepare them to express their full milk production potential.”

Clémence Poussier & Luc Poussier
300 cows, France



Automatic 24/7 feeding routines

The autonomous all-rounder feeding robot weighs, mixes, and distributes up to 1.8m³ of fresh TMR feed per trip, feeding up to 300 animals per day across different nutritional groups. It ensures that customized rations are perfectly prepared in accordance with the feeding cycles set by the farmer. The robot also takes over the time-consuming feed pushing after and between cycles.

Farm management and optimization

With the F4500, you can monitor feed consumption to help you make the right decisions at the right time.

Synchronisation of feeding and milking data

Feeding efficiency is a key data for farmers to achieve their milk production goals. GEA feeding and milking systems (automatic milking system and group parlours compatible with DPService) are digitally connected via DairyNet, which combines data on feeding and milk output. Thus, it helps to optimize the feeding strategy and milk production.

Filling equipment and a clean kitchen

The design of the F4500 contributes to a cleaner kitchen and can be perfectly integrated with various kitchen equipment. Bunkers and mineral containers ensure the safe, hygienic storage and distribution of valuable feed ingredients.

Installed and supported by GEA dealers

The global network of experienced GEA dealers offers a professional, high-quality 24-hour service, from individual consultation and planning to installation and start-up, as well as maintenance and support.

See how the feeding robot exchanges data with automated or conventional milking systems

Automated feeding routines including analysis and optimization

Benefits at a glance

- Adaptable to existing barns and different farm conditions
- Integration between feeding and milking management systems: quick response to make changes and comprehensive cost control
- 24/7 system monitoring: reduced system downtimes and remote support
- Compact size: minimum dimensions for the kitchen and robot able to drive at narrow passages and low doors

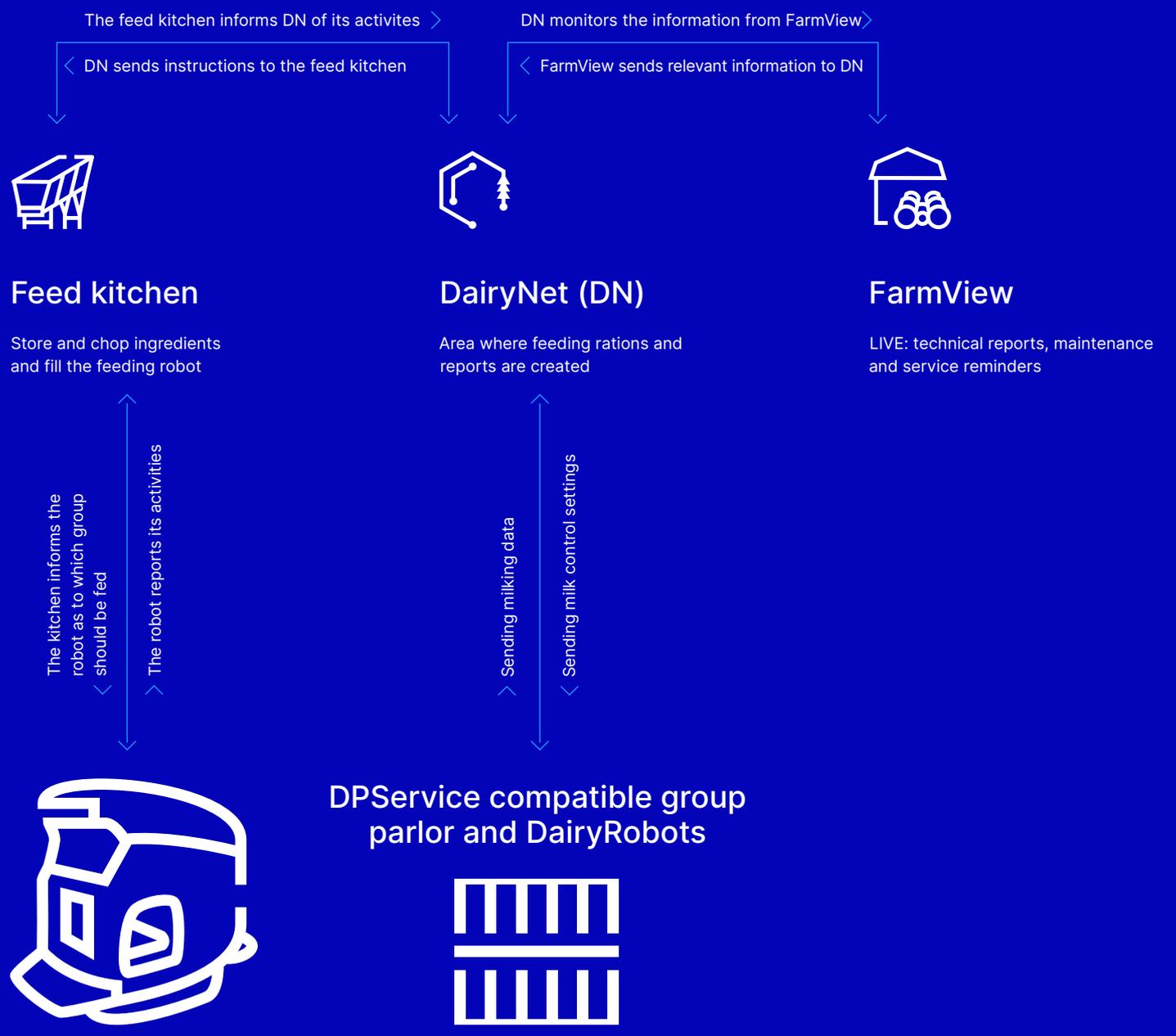
Technical features

- System designed for easy service, all parts can be easily removed and mounted
- Mixer with a capacity of 1.8 m³, design with blades and counter-blades for good mixing and a magnet to collect metals for animal health safety
- Lithium battery with high capacity, 18 hours of operation and reduced power consumption
- Wheels with electric drive for better drivability
- Two functions: scheduling of feed distribution and feed pushing

“Since we started feeding with the F4500, we have noticed that feed intake has increased and there’s been a reduction of more than 5 % in concentrate consumption. The reports are very useful and we’ve achieved a significant increase in animal health and milk production.”

Theo van der Zwaag
180 cows, The Netherlands







Safely store valuable feed ingredients in GEA bunkers

Bunkers are ideal for storing feed ingredients and preserving quality. The GEA bunkers have a capacity of 16 m³. Equipped with a completely covered bottom and hatch, the GEA bunkers ensure a clean kitchen. Additionally, they come with optional knife sets on the rollers to easily loosen feed clumps or very wet feed thereby enabling a homogeneously mixed feed on the feeding table.

Smart farm management

Benefit from better data analysis while reducing feed waste.

The DairyFeed F4500 delivers an extensive array of intelligent reporting options. With this advanced reporting, farmers gain access to key performance indicators (KPIs) related to feeding, forming a robust foundation for informed farm optimization decisions.

- **The report on the daily feeding target** provides an overview of the daily planned and fed feed quantities. With a few clicks, customers can compare the current feed amount with the daily target at both the barn group and individual animal levels, detailing each ingredient in the ration.
- **Feed efficiency report**, in combination with milking data from GEA milking systems, the feeding robot F4500 offers the possibility to the farmer to view their feed efficiency. Feed efficiency refers to the amount of milk produced per kg of dry matter. Thanks to this feed efficiency reports, the farmers can immediately see how efficient their current feeding strategy is and do the necessary adjustments.
- **The feed cost entry function** allows the farmer to enter the unit cost of their feed ingredients. This function enables the farmer to monitor the evolution of their feeding costs. The farmer has the option to view these costs by ingredients or by rations. Keeping track of these costs allows the farmer to make adjustments if necessary.

