



DairyFeed Automated Calf Feeders

Healthy feeding of calves with less labor



engineering for
a better world

gea.com



The DairyFeed automated calf feeding stations provide performance-based solutions to meet today's calf care needs.

Individual feeding is the key to modern calf management

Automated calf feeders make the day-to-day feeding of calves easier and helps minimize the routine tasks involved with raising calves. Automated feeders can be used as a stand-alone unit or in conjunction with a herd management program to create a highly economical calf management system. Every calf can be recorded and monitored from the day it is born.

The ideal profile for fast growth — every calf develops differently, making individual feeding essential for optimal calf health. Automated calf feeders from GEA can be programmed to suit your operation's requirements, whether it is for feeding or fattening. A choice of feeding profiles provides each calf an exact ration made just for them.

Benefits of computer controlled automated calf feeding:

- Calves can develop faster as a ruminant
- They can experience higher daily weight gains
- They can achieve better animal health
- Calves can reach date to first insemination earlier
- They can attain a heavier weight by first insemination
- The dairy can experience reduced calf losses

Optimal health through continuous monitoring — a sudden change in feeding habits can be a sign of illness. That is why the GEA feeding systems record feeding and drinking habits, store the data, and report key deviations — for faster treatment and in turn, reduced veterinary costs.



With the GEA automated calf feeder, milk is delivered fresh, at the right temperature, and mixed on demand so that each individual calf gets their own individual ration.

The *smart* generation of automated calf feeding

The new *smart* generation of feeders have been designed around well-proven systems that carry many exceptional features that come standard at GEA, while adding the latest in web-enabled technology.

Whether you choose the V600*smart* unit (milk powder only) or the V640*smart* unit (combination milk powder and/or fresh milk), with an automated calf feeder from GEA, you are providing your calves with freshly prepared milk at the proper temperature, customized in precise portions for their growing demands.



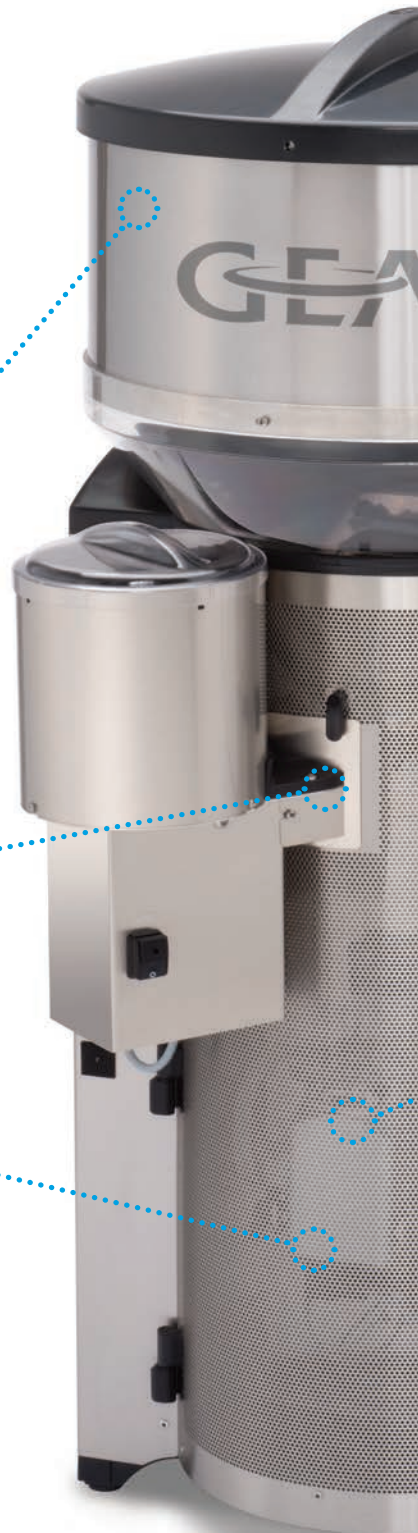
Stainless Steel hopper with filling sensor — durable Stainless Steel hopper equipped with a filling sensor enables the feeder to send a push-message or an e-mail with a warning that the milk powder is almost at an empty level and a refill is needed.



Click and lock — the additional dosing unit can easily fit on or be removed from the fly screen, thanks to the handle and the flexible locking system. This also means that the additives can be provided quickly and easily.



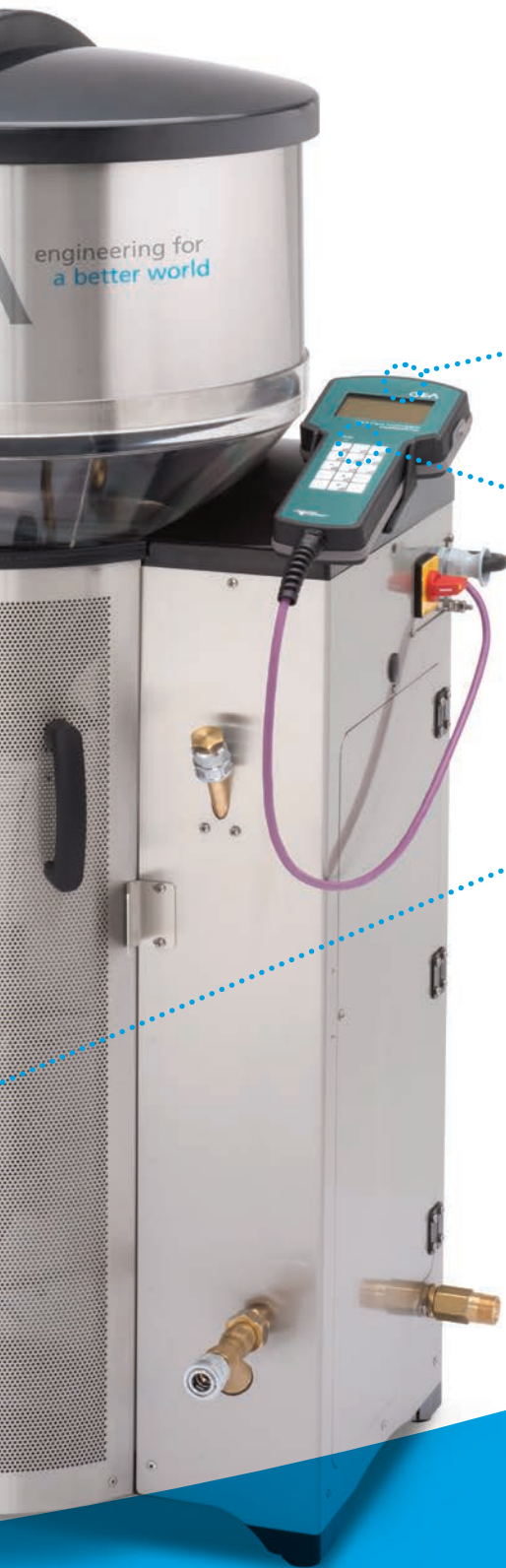
Automated precision — the automatic calibration system ensures that the weighing cell controls and adjusts all dosing weights. Since this process runs automatically, it saves a lot of time and you can be sure that your feeder is regularly calibrated and delivering precise rations.



Maxi Flex 100 stall



Half-body scales



SD card for data back-up or software

updates — conveniently save all of your important calf feeding information and easily update software.



Operating made easy — the automated feeders are equipped with the easily operated hand held terminal. The user-friendly interface with extra keys and a large display make it easy to read.



Optimum temperature control — regardless of seasonal weather changes, thanks to an IQ heating control, the milk is optimally prepared at the correct temperature.



The GEA Calf Feeding System includes exceptional standard features

- Stainless steel housing for a longer-lasting investment, compared to painted versions
- Stainless steel fly screen to keep rodents and flies away from the mixing chamber
- Vapor screen at the powder dispenser to prevent powder from bridging and affecting concentration
- Detergent dispenser that pre-programs automatic cleanings up to four times per day
- Automatic calibration facilitates feeding accuracy 24/7/365

Individual calf information is available where you need it

Individual calf ID — each feeding stall incorporates an antenna that identifies individual calves from their ear tag or neck tag, allowing each calf to receive their customized daily ration.

Up to 12 servings can be distributed at equal intervals throughout the day to meet the nutritional and physiological needs of your calves. With an automated feeding program and truly individualized care, you can create an excellent foundation for healthy, fast-growing calves that can quickly turn into high-yielding, productive members of your herd.

Stand-alone automated calf feeders for flexible feeding on the spot — the stand-alone automated calf feeders have their own computer, which means they are flexible and designed for individual use. You can manage changes immediately and program the automated calf feeders accordingly.



Information and programming is done through an easy-to-use hand held unit.



Raise healthy calves with less labor.



Web-based CalfCloud and CalfApp — easily connect your calf feeder to the Internet via Ethernet or Wi-Fi and automatically save the device and animal data in the CalfCloud. From there, data can be flexibly retrieved, checked and, if needed, changes can be made. The CalfApp is simple to use, and intuitive, and can be used with your web-enabled devices. This makes it a useful monitoring tool in everyday operation.

Automated data storage and remote access:

- Automated data storage and backup function
- Can be controlled over the Internet (options for remote management, support and updates)
- A CalfApp is available for tablets, smartphones and PCs for convenient animal management
- Optimal animal control with calf feeder access via smartphone or tablet — no matter your location

Modern network capabilities:

- Powerful processor card with Ethernet interface
- Simple network structure — gateway no longer required
- Network-capable (standard)
- Software communication module for connecting to the feeding computer included (standard)
- The automated feeder can be controlled remotely via the “NetTerminal” program (via PC)

All New *smart* Information

- All calf and calf feeder data is available at a glance via the CalfApp and CalfCloud
- Save time by monitoring calves quickly and easily from any location
- Automated data storage and back-ups for better data security
- Remote maintenance is possible by the service technician

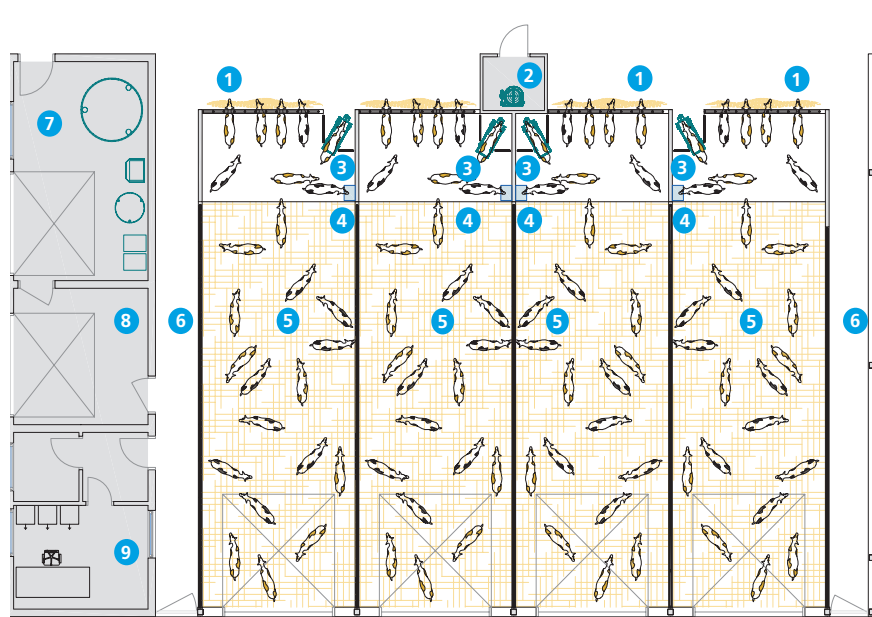


All animals are in view via the CalfApp and CalfCloud.

Sample floor plan for automated calf feeding

- 1 Additional feeding (concentrate, etc.)
- 2 V64osmart Feeder
- 3 Feeding station (one/group)
- 4 Water trough
- 5 Group pen (25 sq. ft./calf)
- 6 Walkway aisle
- 7 Milk room (UV Pure*, cooling tank, etc.)
- 8 Storage
- 9 Office

** Fresh milk can be purified with the UV Pure ultraviolet calf milk purifier to kill bacteria while retaining important nutrients. Available only from GEA.*



SynchroFeed offers the latest technology in group calf raising

- Allows four calves to drink simultaneously
- Can feed up to 120 calves per feeding station
- Offers a reduced investment option for larger calf herds
- All stations utilize servo-controller peristaltic pumps
- Pump speed is calf-age dependent — older calves receive their milk at a higher rate than younger calves
- Consumption is monitored by pump revolutions
- Easy installation



Meet the nutritional needs of your calves and the management needs of your operation

The automated calf feeding station is available in two configurations — as a milk powder only unit (V600smart), or as a combination milk powder and fresh milk unit (V640smart). Powdered calf milk replacer offers ease and consistent high-quality nutrition for the calf. The combination powder and fresh milk unit goes further in allowing the use of powder only, fresh milk only, or powder and fresh milk combined.

Expandable feeding options — each automated feeding station can be connected to two feeding stalls and feed a total of 50 to 60 calves. The 5.5 kW model may incorporate an independent feeding control to add a third stall for feeding up to 70 calves. When high-capacity feeding is required, the SynchroFeed can be used with four feeding stalls and feed a total of 120 calves.

Depending on the number of calves, and size of your farm, GEA has an automatic calf feeder for your every need.



Automatic fresh milk feeder		<input type="checkbox"/>
Automatic powdered milk feeder	<input checked="" type="checkbox"/>	
Combined automatic feeder		<input type="checkbox"/>
Powder capacity	ca. 35 kg	ca. 35 kg
Stainless steel tank	ca. 50 kg	ca. 50 kg
Fully automatic heat exchanger cleaning with rinsing agent metering pump	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Detergent pump (second pump optional)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Automatic calibration scales	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Maximum number of calves	max. 50 to 60 calves with two feeding stalls	max. 50 to 60 calves with two feeding stalls
SynchroFeed with four feeding stalls (optional)	max. 120 animals with four feeding stalls	max. 120 animals with four feeding stalls
Heating power/W.T.V.	2.8 kW/500 ml 5.5 kW/500 ml	2.8 kW/500 ml 5.5 kW/500 ml
Liquid feed preparation	2.5 l/min.	2.5 l/min.
Portion sizes	250 to 500 ml	250 to 500 ml
Stainless steel milk pump	120 W	120 W

CalfRail system – automated individual pen feeding

Distribute fresh milk or milk replacer up to eight times per day

The CalfRail system is supplied with milk replacer or fresh milk by the V600smart or V640smart calf feeder. This eliminates the need for feed preparation, transportation and feed dispensing, while still managing your calves in individual pens.

Also, the manual cleaning of buckets and equipment is no longer necessary, and best of all, calf care is no longer tied to fixed times of the day.



Hygienic calf sanitation.

Simple functionality — up to eight times per day, the automated CalfRail system moves along a sliding rail to every calf pen to dispense a customized milk ration to each individual calf. A servo-driven hose pump moves milk down into the nipple, ensuring comfortable milk consumption for even the youngest of calves. In addition, an intelligent heating element integrated in the hose helps to deliver an optimal drinking temperature — even in winter weather.

Maximizes capacity — one CalfRail unit can supply up to 32 individually penned calves. The automated feeder is able to control up to four CalfRail units. Therefore, in total, 128 calves can be fed using one single calf feeder.

Optimal hygiene — automated cleaning before and after every feeding cycle reduces labor considerably and helps facilitate optimum hygiene. Outside of feeding times, there is no milk in the system, leaving no environment for bacteria to grow. An optional nipple cleaning feature can be incorporated to spray off the nipple externally with a solution after every calf feeding.

Combine individual and group pens with one feeder — oftentimes, calves are kept in individual pens for two weeks, and then moved to group housing. This is no problem for the *smart* calf feeders, they are designed to support the operational management on your farm. Data from individual penned calves is easily transferred to the group housing system, and is also available on your smartphone, tablet, or PC via the CalfManager software.

Convenience features for operators and calves — the dispensing arm now has an integrated training button as well as a LED light to indicate feed entitlement. A LED light strip attached to the CalfRail housing makes after-dark animal control easier. And, an audible signal reinforces calf conditioning to initiate feeding.



Easy and comfortable calf training.



Accelerate weight gains through fresh, customized feedings.

Flexible configurations with straight lines or curves — the new CalfRail is equipped with a curve-enabled drive for more versatile installation capabilities, especially in older, existing barns.



- Accelerate growth with freshly prepared, age-appropriate portions fed up to eight times per day
- Eliminate physical labor of hauling and manually cleaning buckets
- Optimize system hygiene with automated features
- Schedule calf feeding tasks with more flexibility throughout the day
- Combine individual and group pen housing on one system
- Feed up to 128 calves with a single automated feeder



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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