

GEA MILKING CLUSTERS

Always the right choice for
you and your herd.





Optimize the milking process with your choice of milking cluster and get support in your daily milking routine.

Milking stall equipment plays a decisive role in the efficiency of the whole milking system as well as the comfort of both operators and animals. At GEA you can find a large selection of practice-proven milking clusters that milk not only efficiently, but also in an animal-friendly way. Discover the possibilities for making work processes easier, increasing productivity and optimizing milk yield. You'll milk safely, quickly, gently and completely!

EVERY HERD IS UNIQUE.

No matter what breed of cow: Milking clusters by GEA are the right choice.

Unlock the milking potential of your herd by investing in our tailored solutions. Optimize your milking times as well as machine-on periods, ensuring a sustainable milking operation that benefits you, your cows, and the planet.

For highest milking performance and best milk quality, the precise alignment of milking clusters and udders as well as operational procedures and milking routines are crucial.

Expert milking for your herd

At the intersection where cow meets milking parlor, GEA offers highly functional milking clusters and long-lasting rubber or silicone liners. Among the popular Classic milking clusters, the IQ milking cluster with udder-friendly 4-way technology or the ApolloMilkSystem with integrated automatic dip and backflush function, you can find the right combination for diverse udder forms and an all-round perfect teat fit for your herd. For whatever GEA milking clusters you choose, you always get the right liners – operator-friendly, powerful, long-lasting and highly comfortable for your cows.

Depending on your replacement rate, the udder geometry of your herd can change fundamentally over the course of three years, so this means you need a milking cluster that adapts to the individual needs of your herd. The modular system allows you to combine cluster components in a variety of ways, choosing between teat cup shells or liners in different material and sizes.

GEA's additional milking stall accessories help you improve ergonomics, facilitate work processes, and support milking staff and milk cows in an animal-friendly way.

Milking clusters

Classic 300 & Classic 300E Milking cluster	4-5
IQ Milking cluster	6-9
ApolloMilkSystem with ApolloIQ milking cluster	10-13

Milking stall accessories

Milking cluster positioning	14
CIP milking cluster holder	15

CLASSIC 300 AND CLASSIC 300E MILKING CLUSTER

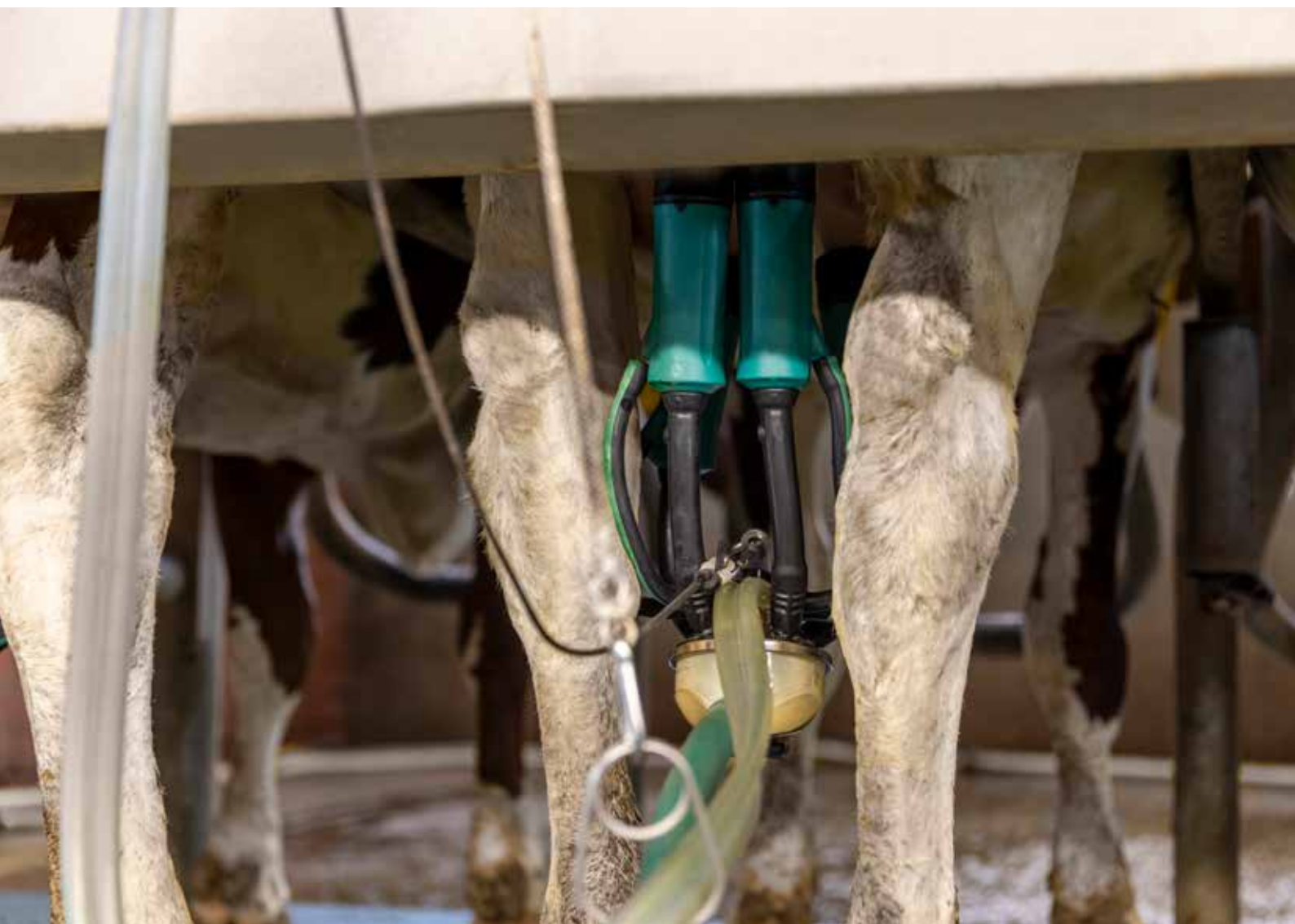
The all-rounders: gentle at the highest milk flow, fits every udder.

Classic 300 and Classic 300 Evolution (E) are the all-rounders among GEA's milking clusters. Dairy farms around the world appreciate these tried and tested clawpieces.

Always fits: Classic 300 & Classic 300E

Both milking clusters are designed for simple milk processing with direct milk flow without detours. For optimal milking results and high throughput, you need a well-balanced milking cluster.

The specially formed spoon-shaped nozzles on the claw top ensure the short milk tubes remain flexible and elastic, enabling the milking cluster to adapt to different udder shapers, resulting in a perfect fit to any udder geometry for maximum comfort and cluster alignment. Each individual quarter is optimally milked out.





The classic with the perfect fit

The Classic 300 is best suited for normal and wide teat positions. If you have modern high-yielding cows with close together rear teats, the Classic 300E, designed precisely for this with narrowly positioned short milk tubes, is exactly the right choice.

Optimal milk flow for direct milk transfer

The flow-promoting design of the Classic 300 and Classic 300 E supports rapid milk removal without detours or restrictions, assuring careful treatment of the milk. You benefit from better adhesion, faster throughput and optimal milking out, ensuring a clear milkpath with minimal vacuum fluctuations.

Liners for the Classic clawpiece

As with all GEA milking clusters, there is a special range of rubber and silicone liners available for Classic 300 and Classic 300E, allowing you to quickly and individually adapt your dairy farm to changing requirements such as udder shape and teat sizes. For GEA's proven all-rounder systems, there is a wide selection of liners in silicon and rubber.



The next generation of improved shell technology for the newest liners in GEA's portfolio is here. The extremely durable composite shell is designed to fit the new GEA's global liner portfolio perfectly.

IQ MILKING CLUSTER

The intelligent 4-way milking cluster.

This quartet plays in a league of its own. The IQ is known for its 4-way technology, designed with an eye to the natural structure of a cow's udder. The milk flows separately and quickly from each udder quarter directly to the milk outlet. This way you can milk your high-yielding cows more efficiently and at the same time prevent the risk of teat-to-teat cross contamination with mastitis-causing bacteria.





Milking with the IQ: clever down to the details.

Four paths to better milk quality

The milking unit is designed with the natural udder structure in mind: it is divided into four separate chambers. In contrast to conventional systems, the milk is not funneled together, but instead channeled quarter-individually to the milk outlet quickly and gently, due to the gradient in each milk chamber. This way the IQ consistently prevents cross contamination teat-to-teat and the udder stays healthy. Experience exceptional cow comfort during milking with our improved teat-end vacuum stability.

Milking cluster ensures hygiene

The automatic shut-off only activates the full vacuum for each of the four quarters when the teat cup has been attached to the teat. When teat cups are not attached, the vacuum supply is shut-off by stainless steel balls. The vacuum remains stable – kinking the short milk tubes is not necessary when attaching. Unexpected air admissions and contamination of the milk path with debris or manure being sucked into the milk supply, are effectively eliminated, resulting in top milk quality.

Four ways for maximal milk quality and udder health. Specially designed for easy handling.

Safe and gentle milk flow, highest milking comfort

The IQ 4-way milking cluster gently guides the milk separated by quarter to the milk outlet – even when milking cows with high milk flow rates. The integrated automatic shut-off reduces vacuum fluctuations and prevents manure and debris from entering the milking system.

The internally positioned short pulse tubes create a narrow milking cluster geometry, providing the best conditions for a perfect udder fit and easy cluster attachment.

And the handling? Plain and simple: Easier attaching, easier milking, easier maintenance – and surprisingly lightweight. Anyone can milk with an IQ cluster!





Sits, fits, and doesn't slurp

A combination of maximum flexibility and ideal weight distribution allows the IQ to adhere securely to the teats. The milking unit's finely tuned center of gravity and the optimal positioning of the short pulse tubes keep the IQ in place. Even with high throughput, you can milk out all udder quarters quickly and hassle-free without air leaks.

High work comfort

Equipped with the new global shell creating a lightweight milking unit, the IQ milking cluster offers better ergonomics and more comfort for the milking staff minimizing heavy and repetitive lifting during milking.

Milking with the IQ is easier than ever. Thanks to the high center of gravity during removal, the teat cup shells fall in such a way that the milking cluster is immediately ready for use. Due to the automatic vacuum shut-off, you can attach the teat cups quietly and quickly in an ergonomic posture without noise. Whether you attach each one individually or all at the same time – it's up to you. The IQ supports you in every attaching routine.

Liners for IQ milking clusters

We offer you IQ silicone liners and IQ rubber liners. One of the many advantages of the single piece liner: The contours are designed for highest flexibility and ideal adhesion. All this leads to optimal adaptability – no matter which shape of udder or teat geometry.

APOLLOMILKSYSTEM WITH APOLLO IQ MILKING CLUSTERS

Automatic dipping and
backflush system.

Automatic dipping, cleaning, disinfecting

Automatic dipping, cleaning, disinfecting automation in the milking parlor not only takes a lot of work off your hands, but also ensures consistent milking routines thanks to standardized processes. Consistently good dipping results and maximum hygiene ensure animal health and milk quality in the long term.

The ApolloMilkSystem automates two important time-consuming work steps at the end of the milking process to keep udders healthy: the reliable and careful dipping of the teats after milking as well as the effective cleaning and disinfection of the milking clusters between individual milkings.





Dipping in the liner – accurate und economical.

The best way of dip application: the ApolloMilkSystem covers the teats at the right time. Dipping takes place directly in the teat cup. This ensures outstanding and consistent dipping quality and full protection all around the teats.

Ideal time, ideal amount, ideal protection

The teats are post dipped while each one is still stretched out in the teat cup under vacuum. This optimizes the application of the dipping solution on the teat skin. It can thoroughly penetrate all of the folds and wrinkles and completely cover the teat surface with the dipping solution even before the milking unit is taken off. Always freshly provided, the amount of dipping solution can be adjusted and accurately controlled. The unique dosing chamber ensures that dipping consumption remains low. This way the ApolloMilkSystem works economically, and automatically makes sure that every cow is dipped optimally and consistently at every milking.



Backflush ensures complete freedom from contaminants.

Reliable cluster disinfection: pathogens don't stand a chance with the ApolloMilkSystem. After dipping, the cluster is removed and rinsed intensively, so that all dipping and milking residues are removed from the cluster. Subsequently it is completely sanitized with highly effective disinfection solution.

Clean and healthy

The ApolloIQ is completely cleaned and sanitized via backflush before it is used for the next cow. Pathogens in liners and milking clusters are killed, reducing the risk of spreading mastitis pathogens through the milking cluster. Washing cycles with bursts of air reduce water consumption. Cluster disinfection can prevent clinical and subclinical mastitis because it reduces the risk of bacterial transmission, thus, increasing milk quality and the udder health of your herd.



With the ApolloMilkSystem manual work steps are eliminated and you benefit from the advantages of automatic dipping and disinfecting: standardized procedures increase efficiency and milk quality.

Improved milk quality and udder health.

Reliable udder health and a backflush system that removes over 95% of all organisms that could infect the next cow with potential pathogens. Milking, dipping, rinsing and disinfecting in just one procedure! This means less required labor, as well as significantly reduced downtime and treatment costs.

Efficiency and productivity in harmony

You can rely on an even and consistent dipping process. The automated dipping eliminates a labor-intensive and repetitive operation at the end of the milking process. This not only improves milking routines and creates time for careful udder preparation, but also increases throughput as well as the efficiency of your milking parlor. Thanks to Apollo the milking process can be mastered with ease, even with a reduced staff. With the ApolloMilkSystem manual work is eliminated and you benefit from the advantages of automatic dipping and disinfecting: standardized procedures increase efficiency, improving milk quality and udder health.

Intelligent milking.

Based on the IQ 4-way milking cluster

The ApolloIQ milking cluster takes advantage of the separate 4-way technology of the IQ cluster, combined with an automated dipping, cleaning and disinfecting system, to ensure a gentle, quick, safe, and complete milking out. In addition, the narrow milking unit geometry creates the best conditions for a perfect fit to any udder. The green composite shells make the milking unit lightweight.

Maximum milk safety

The milk is never exposed to cleaning solution during milking. The Intelligent valve technology prevents milk from coming into contact with the dipping solution, water or disinfectant products.



Perfectly coordinated.

Liners for the ApolloMilkSystem

The rubber ApolloQLiner is designed for milking with an automated dipping and disinfecting cycle. Within the ApolloQLiner product range, single piece liners are available in different barrel and mouthpiece sizes, for a wide range of teat sizes ensuring a maximum flexibility and adaptability.

Teat dipping and disinfection products

All teat dip options available to use with ApolloMilkSystem have been extensively tested. The ApolloMilkSystem uses disinfection solution proven to prevent the spread of bacteria from cow to cow, thus improving the udder health of your cows.



MILKING CLUSTER POSITIONING

Ergonomic positioning aids make cluster attachment easier and relieve the udder from excess weight.

Positioning arms – the milking optimizers

The right positioning of milking cluster is crucial for your milking success. GEA's positioning arms assist the cluster handling enormously, ensuring optimal cluster positioning for every udder shape, providing maximum milking comfort for both people and cows.

Positioning arms, such as PosiForm, support you not only during attaching, but also carry the weight of the long milk and pulse tubes. By following the movements of the cow during milking, they prevent unwanted torque and leverage forces, ensuring a comfortable milking process.





CIP MILKING CLUSTER HOLDER

Reliable Clean-in-Place process provides flawless hygiene in the milking cluster.

Smart rinsing

No matter which milking cluster, no matter whether rubber or silicone liners: the CIP milking cluster holder guarantees quick and easy handling. Firmly installed, ideally centered, modular design. The best thing that can happen to your milking cluster for an ultimate washing!

Teat cup hygiene

Inside the milking cluster holder things get straight down

to business: The patented two chamber system controls the water flow to make sure the four teat cup are rinsed evenly with high intensity. The result is flawless hygiene with economical water use. The flow rate on the cluster holder can be adjusted individually.

Flexibly adaptable to every liner

No matter how liner forms change: The rinsing plate or rinsing sleeve can be quickly changed to match the liner in use.

GEA Farm Technologies GmbH

Siemensstraße 25 - 27

59199 Bönen, Germany

Tel +49 2383 93 7-0