



ApolloMilkSystem

Lock in herd health



ApolloMilkSystem – A maximum of safety for the milk!

Dipping and BackFlush: Safe, easy, just perfect. It is a fact that automation can decrease the chance for human error, reduce labor and inefficiencies, and provide more consistent milking procedures. The combination of these benefits, all evident in the revolutionary ApolloMilkSystem, automated dipping and backflushing system can improve the milk quality in your herd and positively impact your dairy's bottom line. Combining the automated dipping and back-flushing ApolloMilkSystem with the revolutionary IQ quarter milking cluster can lock in herd health.

Don't leave anything to chance!
Thanks to the ApolloMilkSystem, you can:

- Gain efficiency by reducing the work load and or achieving faster parlor throughput
- Reduce the risk that one sick cow infects the whole herd and thus minimize the mastitis risk
- Minimize stress by simplifying and standardizing your work process
- Protect milk quality by means of the unique safety valve

Reliable Milking, Dipping and BackFlush with Apollo

Discover the ultimate dipping and disinfection technology...

...and increase the udder health with great care:

The ApolloMilkSystem automates two important, time-consuming work steps at the end of the milking process:

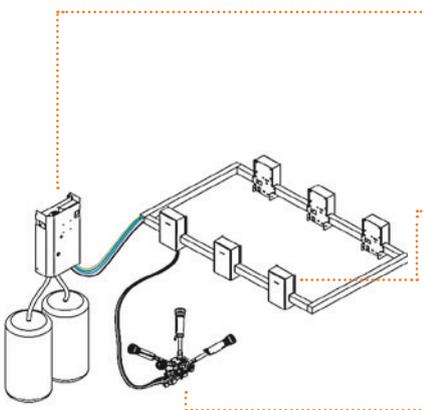
- 1 Reliable and accurate dipping the teats after milking
- 2 Effective Disinfection of the cluster after each individual milking process

Automatic teat care and a backflush function eliminating over 95% of the organisms that could infect the next cow with potential germs: Milking, dipping and flushing in a single pass! This means significantly reduced downtime and costs of treatment.



*Whether rotary parlor, side-by-side or herringbone parlor:
Thanks to Apollo the operator can focus on other tasks that can improve milking and udder health.*

The ApolloMilkSystem components: Your team for maximum security



Apollo Main Control
Keeps everything under control when connected to the effective GEA dip and disinfection solutions.



Apollo Stall Control
One single stall control for each individual milking stall assures complete operational independence and ensures that every teat gets its exact dipping dose.



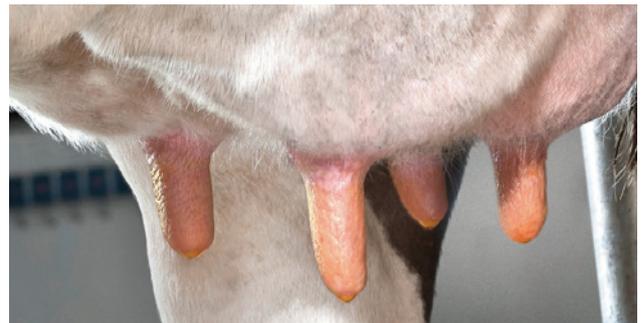
ApolloIQ
All advantages of the IQ milking cluster combined with an automatic teat dipping and backflushing of the cluster.

Automatic dipping – accurately and safely

Dip application in the best way: The ApolloMilkSystem covers the teats at the best time. Dipping directly in the teat cup is accurate. ApolloIQ automatically always ensures outstanding consistent dipping quality and thus full protection around the teats!

Optimal time, optimal amount, optimal protection

The teat is dipped at the best time with the optimal amount of dip. The teat is dipped while it is stretched out and flaccid under vacuum. This optimizes the dip application. It can penetrate deeply into the skin to ensure complete coverage of each teat before the cluster is removed.



Automated dipping and flushing locks in efficiency gains

You can rely on the consistent dipping procedure. Dipping automatically removes a repetitive mundane task at the end of the milking process. This improves the work routine, allows room for proper udder preparation and makes the parlor more efficient resulting in a higher throughput.

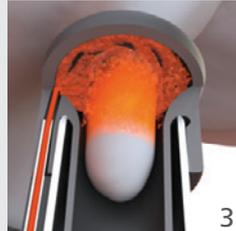
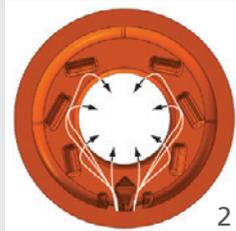
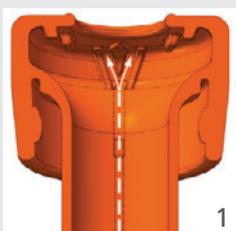


Saving dip consumption, low operation costs

Dip applied is always fresh and uncontaminated. The dip amount is adjustable and accurately controlled. The unique dosing chamber ensures consistent application so that the ApolloMilkSystem always works economically.



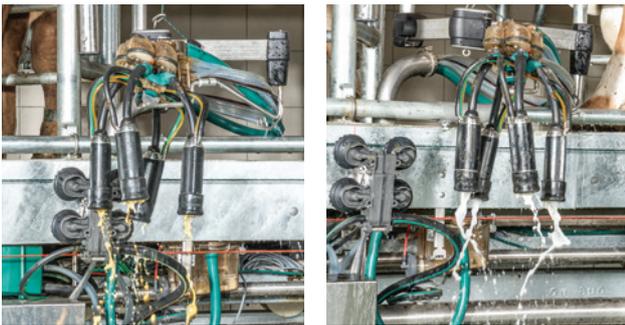
The dipping process in the teat cup liner



- 1 Dip is injected on the underside of the teat cup liner lips
- 2 Even distribution through the patented ApolloIQ teat cup liner head
- 3 Complete teat coverage before the teat is exposed to the environment

Reducing contagious organisms thanks to BackFlush

Automatic backflushing and disinfection of the cluster: The ApolloMilkSystem does not give pathogens a chance. An intensive rinsing process is completed before the next milking session, removing any residual dip and sanitizing the cluster in anticipation of the next cow.



A clean and healthy affair

The entire ApolloIQ is effectively backflushed before the next cow. This kills contagious organisms on the liners and in the bowl of the milker unit reducing the chance of spreading mastitis through the milking equipment. Alternating water cycles with bursts of air creates powerful turbulence inside the cluster and reduces the amount of water required to effectively backflush the unit.



The key to milk quality

The long-life safety valve – the heart of the system – separates the milk and the sanitizing media carefully from each other. This way it is guaranteed that water, dip and disinfectant will never come in contact with the tank milk and the milk quality is preserved.



Secure and gentle milk flow

The IQ four quarter cluster separates and gently guides the milk to the outlet – even for cows with high milk flow rates. The integrated automatic vacuum shut-off decreases milking vacuum fluctuations and keeps dirt from being sucked into the milking system. The unique liner connection allows the cluster to hang straighter, optimizing milking geometry and udder confirmation.

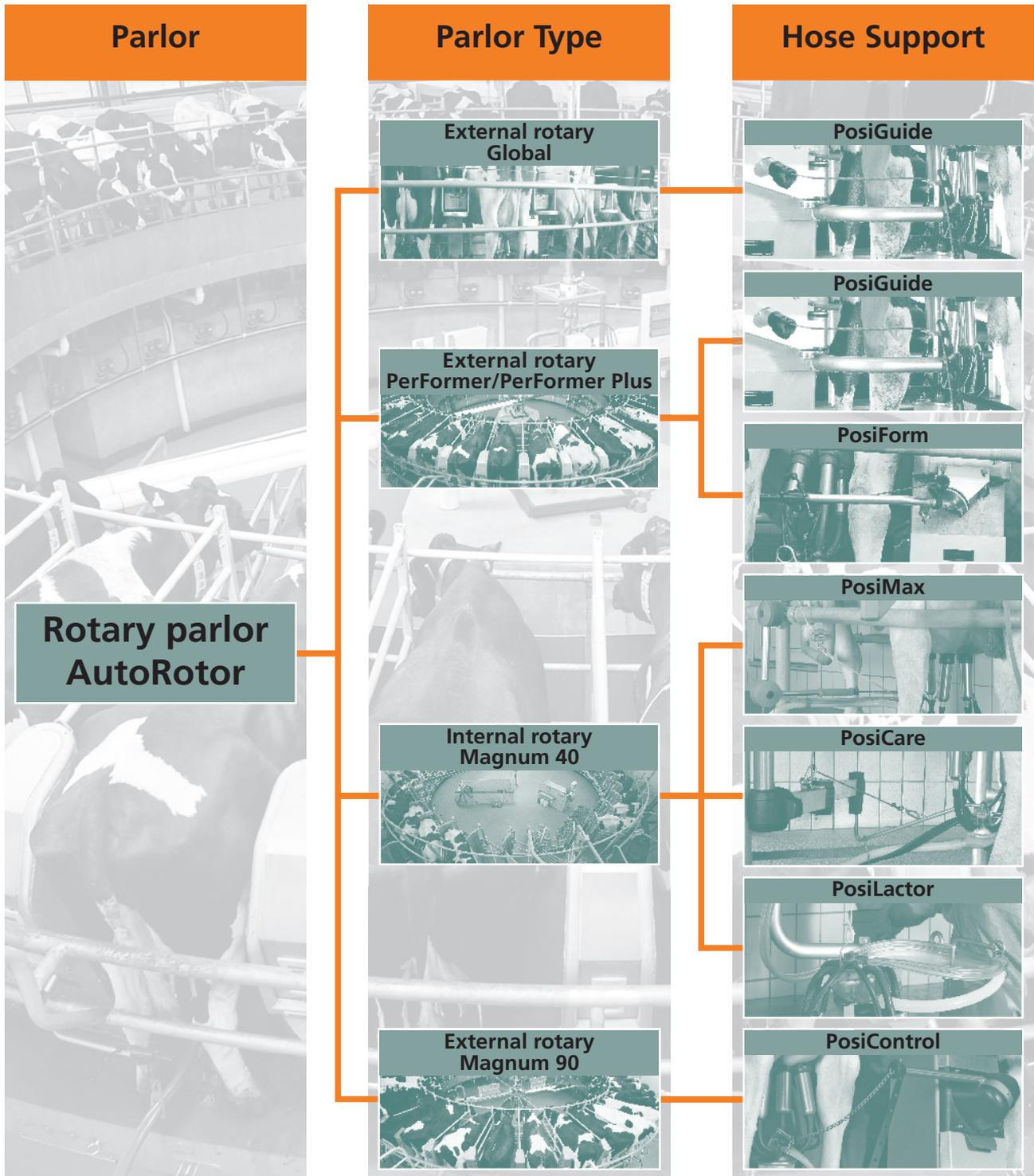


Operational safety under control

Continuously, the ApolloControl (main control) monitors the system pressures and chemical levels and alerts the user if there is a problem that would affect proper operation. You always have your finger on the pulse of the system to assure consistent system performance.

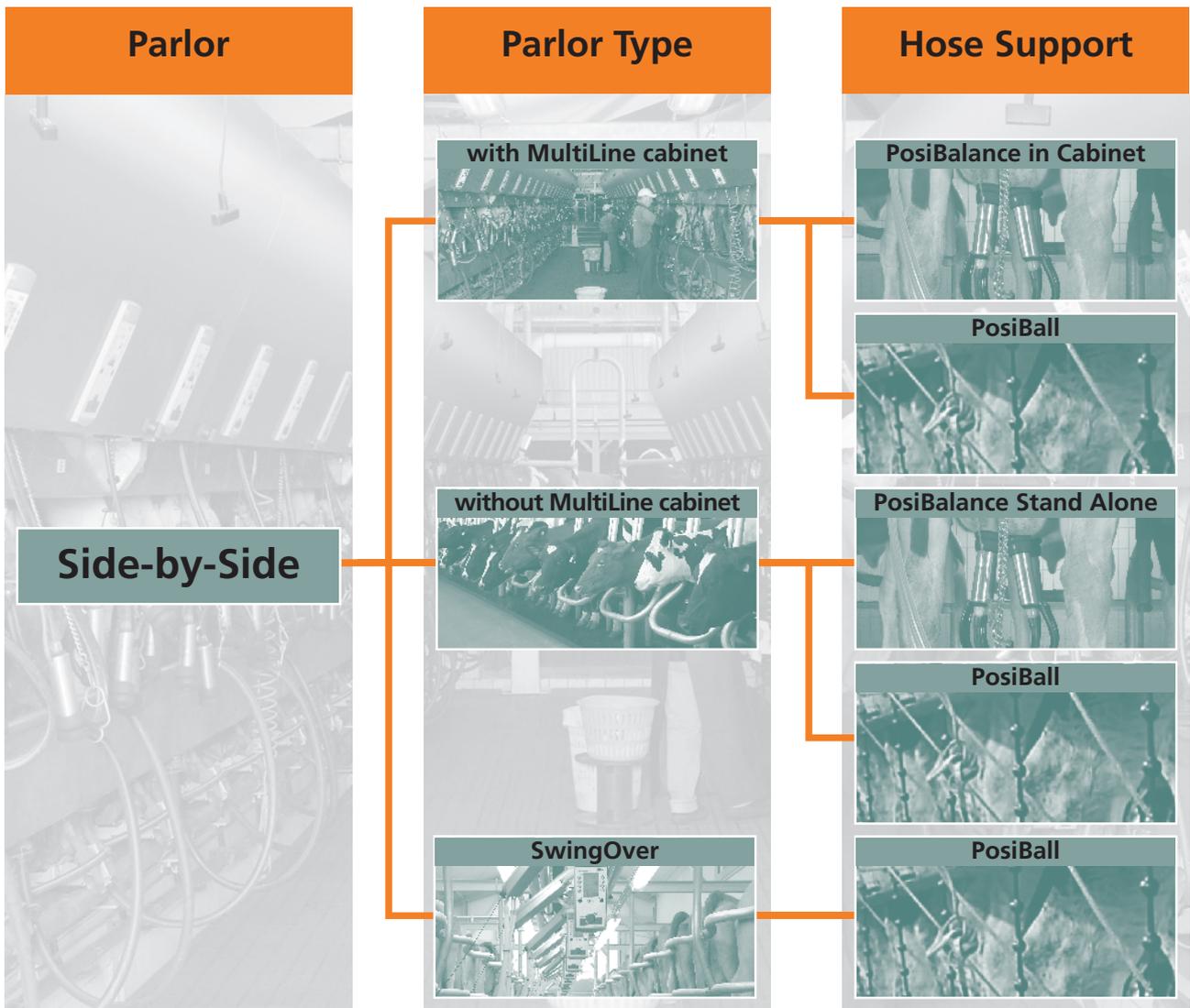
The suitable ApolloMilkSystem for your farm? – For sure!

The ApolloMilkSystem can be installed in different rotary parlors together with the following positioning arms:



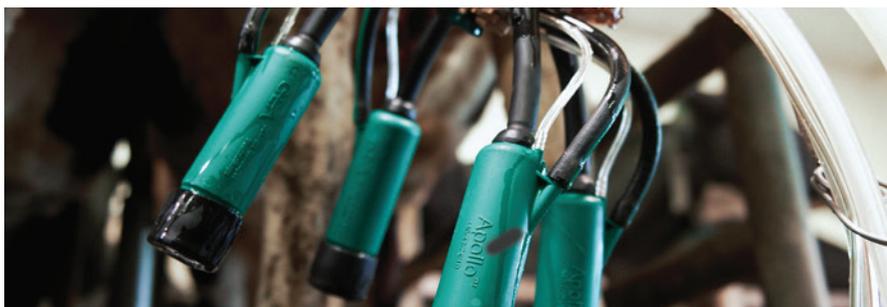
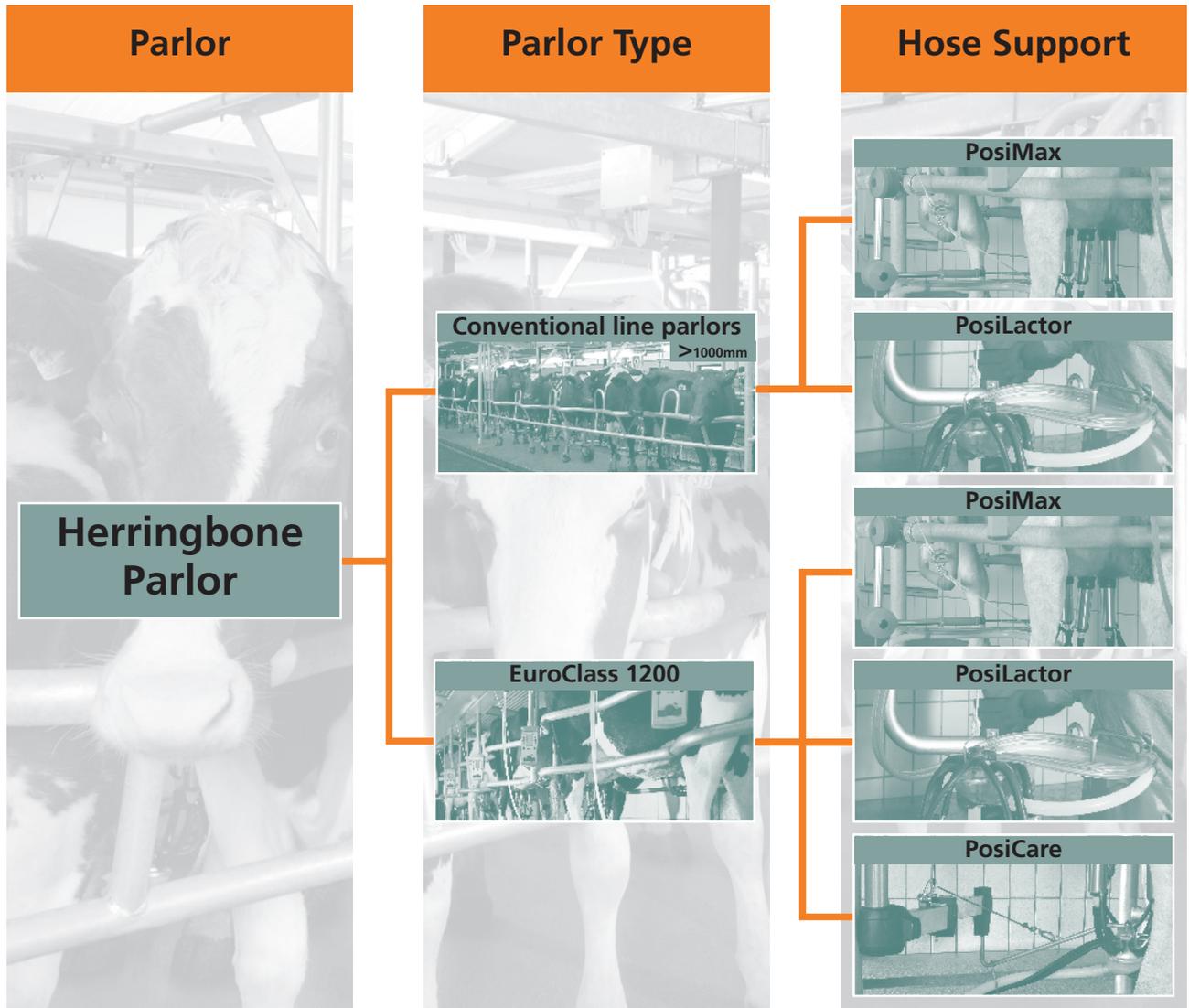
Whether a new construction or a retrofit, the ApolloMilkSystem fits well into every stall

The ApolloMilkSystem can be installed in Side-by-Side parlors together with the following hose supports:



Start into a generation of profitable milk production.

The ApolloMilkSystem can be installed in various herringbone parlors together with the following positioning arms:



*Attachment made easy:
The design with the green composite shells makes the Apollo milking cluster even lighter. For milkers this means less weight to lift when attaching the milking cluster.*



The ApolloMilkSystem with its revolutionary. Dipping and BackFlush technology is the right choice for every milking parlor. Positioning arms like the proven Posi-Care facilitate handling enormously, assure optimal

cluster positioning for any udder shape and guarantees maximum milking comfort for both people and animals (here in an AutoRotor Magnum 40).



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.

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