DeLaval pipeline milking system
Make stanchion barn milking a pleasure
The best way to take care of your business and your cows

Sooner or later you need to replace the milking equipment in your pipeline milking system. At this point, the dilemma you often face is whether to change to a milking parlour with a loose housing system, or stay with the existing pipeline system.

The fact is that the pipeline milking system has a great number of benefits to offer you, your milkers and your cows. As such, if you are not expanding the size of your system, the stanchion barn pipeline milking system is truly ideal for your business.

**Intelligent business sense**

The stanchion barn with pipeline milking system requires the lowest space per cow. This means that costs for insulating the building can be kept to a minimum. Furthermore, the pipeline milking system provides you with the utmost flexibility to make renovation accommodate the size of your herd.

The stanchion barn layout complements individual feeding of cows, allowing you the possibility of using automatic feed wagons and manual feeding. Cows housed in stanchion barns, especially over winter, move around less than those in loose housing. This means that they require less energy and feed. Studies indicate that average feed usage can actually improve by 5 to 6%, thanks to stanchion barns.
Making work easier for milkers
Traditionally, milking in a stanchion barn has been a laborious task for milkers. However, modern carrier rail system and milking units with automatic take-off have been specifically developed to drastically reduce workload on the milker.

The pipeline milking system allows the best view and contact of the cow during milking, which means that unexpected changes can be followed up immediately.

Making life more pleasant for cows
The pipeline milking system offers great possibilities for individual cow handling. It is also the system that stresses the cows least.

It is of great psychological importance for cows to have their own space in the barn and yet have close contact with their neighbours. The modern stanchion barn cubicle equipped with rubber mats supports these needs and provides enough space for cows to be comfortable. Covered manure gutters help keep cows as clean as possible with the minimum of effort.

The stanchion barn pipeline milking system is the most rewarding investment you can make for your business. In the process you will create a safe, healthy and comfortable barn for one and all concerned.
A bird’s eye view of the pipeline milking system

Modern stanchion barns with carrier rails, automatic feed wagons and hydraulic manure removal systems are the ideal solution for small and medium sized farm operations. On top of this, the pipeline milking system will prove to be the most cost-effective investment for you.

**Highly productive working environment**
DeLaval carrier rail eliminates physical wear and tear that comes with lifting and carrying heavy milking units and supplies.

**Individual cubicles**
A separate cubicle for each cow allows each to be handled according to her own needs and requirements.

**Stable vacuum supply**
You can rely on the equipment to run smoothly so that your cows are milked effectively and comfortably.

**Cooling**
Professional, hygienic cooling – to maintain milk quality.

**Automatic cleaning**
You can be sure of achieving the highest levels of hygiene and safety to maintain the quality of your milk.
Taking the stress and strain out of stanchion barn milking

The good news is that stanchion barn milking no longer need to be as tiresome and time-consuming as it was. Improving productivity, health and happiness of your milkers requires investment in a DeLaval carrier rail. You will immediately create a healthier workplace, as well as have more time and energy for other chores.

Decrease muscular strain and pain
DeLaval carrier rail enables milkers to work wherever necessary in the stanchion barn, without having to lift or carry heavy milking units and supplies.

Take advantage of an extra pair of arms
DeLaval carrier rail is as good as another pair of extremely strong arms. It can handle almost any tough carrying, from moving calves to distributing bedding.

Herd management
Since DeLaval carrier rail is there to ease the workload for you, you will have more time to devote to herd management. Udder health checks and hygiene inspections can be done on a regular basis, thereby improving the general health of your cows. Promoting high production and peak performance.

“DeLaval carrier rail does the work for me – the burden of carrying heavy supplies does not exist any longer. Now I can devote my energy towards thorough udder health checks and hygiene routines. I believe that this is the key to obtaining high quality milk.”
- Milton Lind, Sweden.

DeLaval carrier rail helps transport milk to your calves.

DeLaval carrier rail extends all the way from the milkroom...

...to your cows.

DeLaval feedwagons can automatically cross DeLaval carrier rail during feeding.
A range of milking clusters to suit individual needs

The milking cluster and liners is the only real point of contact between your cow and a machine. You can not be too careful in selecting the right cluster to suit both the physiology of your herd and the demands of your business.

**Milking clusters to suit your herd’s needs**

DeLaval offers you the flexibility of choosing from a number of different cluster options. The range comprises: Harmony®, Harmony Plus™, DeLaval cluster TF360 and DeLaval cluster HCC150.

**Harmony Plus™**

Research has shown that most cows have their front teats located further apart and higher up than their rear teats. The breakthrough design of Harmony Plus™ reflects this difference with an asymmetric claw that ensures a perfect match to the natural shape of a cow’s udder.

Harmony Plus™ fits most cows perfectly and its unique design ensures less slips and fall-offs.

The unique liner design provides optimum stimulation of the teat and is a sure way to improve milk production.

**Harmony®**

The Harmony® range of clusters are so revolutionary in concept and design that they are setting the standard the world over.

Harmony® clusters are lightweight, made of high quality material and designed to deliver excellent milking performance. The use of lightweight materials and a well-balanced design help reduce the workload for the milker, and keeps cluster slips and fall-offs to a minimum. In addition, the tube guide supports and aligns all tubes connected to the cluster.
The 3D chart shows the result of a survey on teat locations on a range of cow breeds. The data clearly show there is a difference in the distance between front and rear teats. Harmony Plus™ is designed to cater for this difference.

Cows enjoy the perfect fit of Harmony Plus™ and milkers appreciate its well-balanced ergonomics. Fitting this cluster is second nature.

All of these features help to simplify handling and speed up attachment and detachment.

The well-proven design of the Harmony™ cluster combines gentle cow treatment with high flow characteristics. The cluster provides optimum massage of the teats and minimises teat-end impact and vacuum fluctuations.

Harmony™ clusters enable high-yielding cows to maintain their udder health and high-quality milk production.

Fitting Harmony™ clusters will be a simple, natural procedure for milkers and will take much of the strain out of their daily work.

Other clusters in the DeLaval range
Clusters for milking units without automatic cluster removal are DeLaval cluster HCC150 and the TF360. DeLaval cluster HCC150 has years of proven reliability while DeLaval cluster TF360 is the cluster for those who require high capacity and efficient milk extractions.
DeLaval milking units for happy cows and healthy profits

DeLaval milking unit MU350 is setting the standard the world over with its unique integration of functions. Electronic pulsation, cluster removal and milk yield indication are all controlled by microprocessors.

**DeLaval milking unit MU350** ensures automatic cluster take-off at the right moment during milking.

**The support for making informed decisions**
DeLaval milking unit MU350 is built to display milk yield, milk flow and milking time. This information is important because it enables you to capitalise on efficient herd management. Take for example a sudden drop in milk yield – you can interpret this to be the first sign of heat or a health disorder in a cow. The information you attain from your DeLaval milking unit MU350 can also be very useful for following the effects of changes in feeding that you might introduce to your herd.

**Designed for ultimate ease of use**
The ergonomic design of DeLaval milking unit MU350 enables it to be carried around the barn easily. To achieve optimum comfort and ease of use, just use the MU350 in combination with your carrier rail system.

**The power of automatic cluster take-off**
It is a fact that milking becomes much easier and smoother with automatic cluster removal. The automatic take-off ensures that your cows are not over-milked. You will find that workflow is greatly stepped up whilst work-related stress is reduced.

**Enjoy the benefits of physiological milking**
Every cow is different and as such, she needs to be treated according to her individual demands and needs. DeLaval milking units are based on the concept of flow-controlled milking – which basically means that the vacuum and pulsation rates follow the milk flow.

DeLaval milking unit MU350 begins operating by gently stimulating the cow for milk let-down. At this stage the vacuum level is low and pulsation is reversed. Once milk flow is achieved, the MU350 automatically switches to main milking mode with normal vacuum level and pulsation. In this way DeLaval milking unit MU350 ensures both speedy and efficient milk out.

DeLaval milking unit MU200D and MU210D. Built for trouble-free milking
DeLaval milking unit MU200D is ideal for all types of pipeline milking installations in stanchion barns. Pre-stimulation, milking and after milking is automatic and optimised for each individual cow. At the same time you will achieve good emptying of the udder, which is important for high lactation yield and maintaining good udder health.

DeLaval milking unit MU350 provides you with information regarding milk yield, milk flow and milking time.
The pulsator at the heart of your pipeline system

The DeLaval range of resilient pulsators maintains a constant pulsation rate and ratio, regardless of temperature, humidity and other environmental factors.

DeLaval pulsator EP70 is electronically controlled, programmable for different needs, and includes a built-in self diagnostic feature. The battery option further provides you with all the flexibility and mobility you require in your barn.

You also have the choice of a pulsator that functions without electricity – the pneumatic DeLaval pulsator HP102 with a unique hydraulic dampening system. It can be used for all types of mechanical milking units in a stanchion barn, thereby allowing for easy installation and safe operation.

Simple, comfortable milkline connection

DeLaval milkline connector MC200 is the vital connection between the milking unit and the milkline, vacuumline and electricity supply. It enables connection through just one simple attachment. It is highly ergonomic, specifically developed to make the milker’s working position as comfortable as possible.

DeLaval has a wide range of different milking units to meet your specific needs.
The areas of the milking system that have the greatest effect on overall milk quality and heard health are, without doubt, cleaning, cooling and vacuum. These are essential to maintaining quality and therefore do not leave any room for compromise.

**DeLaval cleaning unit C200 and C100E. Effective cleaning at the touch of a button**

It is vitally important that your milking equipment is thoroughly cleaned after each and every milking. This is a key factor for maintaining high quality milk.

Effective cleaning means having full control of several different parameters – like water temperature, detergent concentration, mechanical force and cleaning duration. Trying to manage these parameters manually takes time and is prone to error.

DeLaval cleaning unit C200 and C100E solve this problem automatically at the touch of a button. Fully programmable, they are easy and safe to operate.

Both cleaning units come packed with cost-saving features that allow you to decrease water and detergent consumption. DeLaval cleaning unit C200 and C100E are easy to install and require minimal space in your milking room.

DeLaval also has a wide assortment of powder and liquid detergents to ensure that your milking equipment is as clean as possible. We continuously develop new, improved cleaning products and detergents to ensure that you get the very best at all times. And we are always at hand to provide you with expert advice and professional support.

**DeLaval vacuum pump DVP. The one you can depend on**

DeLaval vacuum pump DVP is a direct-drive pump that delivers smoother vacuum flow, quieter running and reduced service need. In fact, DeLaval vacuum pump DVP is so effective, that noise levels are reduced as low as 72 dB – something which will be highly appreciated by you, your milkers and your cows.

An interceptor vessel protects the pump from any damage caused by
water or solid particles in the airflow. DeLaval vacuum pump DVP is also built to deliver more vacuum per kW output than traditional pumps, which means that a lot more energy is saved compared to traditional pumps. Moreover, the pump uses a lot less oil for its operations.

**Cooling. For quality milk and energy savings**

Immediately after extraction, milk has a natural resistance to bacteria. The only sure method of retaining milk quality and of controlling further growth of microorganisms is rapid cooling. The milk needs to be rapidly cooled to a storage temperature of 4 to 6°C.

Cooling tanks from DeLaval follow this fundamental principle to ensure top quality milk for you. In addition, our direct expansion technology helps cut energy consumption, whilst the integrated control unit provides convenient, automatic cleaning. Cooling tanks suitable for all farm sizes are available.
Peace of mind

Serving you even better
You and your herd depend on your milking system to be working day in and day out, all year round. Hence, we have developed a service program that cover all aspects of after-sales service and support, including a comprehensive preventive maintenance scheme.

Most importantly perhaps, you have the assurance that all our service engineers are highly trained and dedicated to their profession. They come to you equipped with original spare parts and committed to keeping your DeLaval milking system working at peak efficiency.

DeLaval milking systems are the proven, effective way to raise the quality and productivity of your dairy operation. Undoubtedly, their perfectly matched, quality components work in complete harmony to create the ideal climate for both cow and milker.