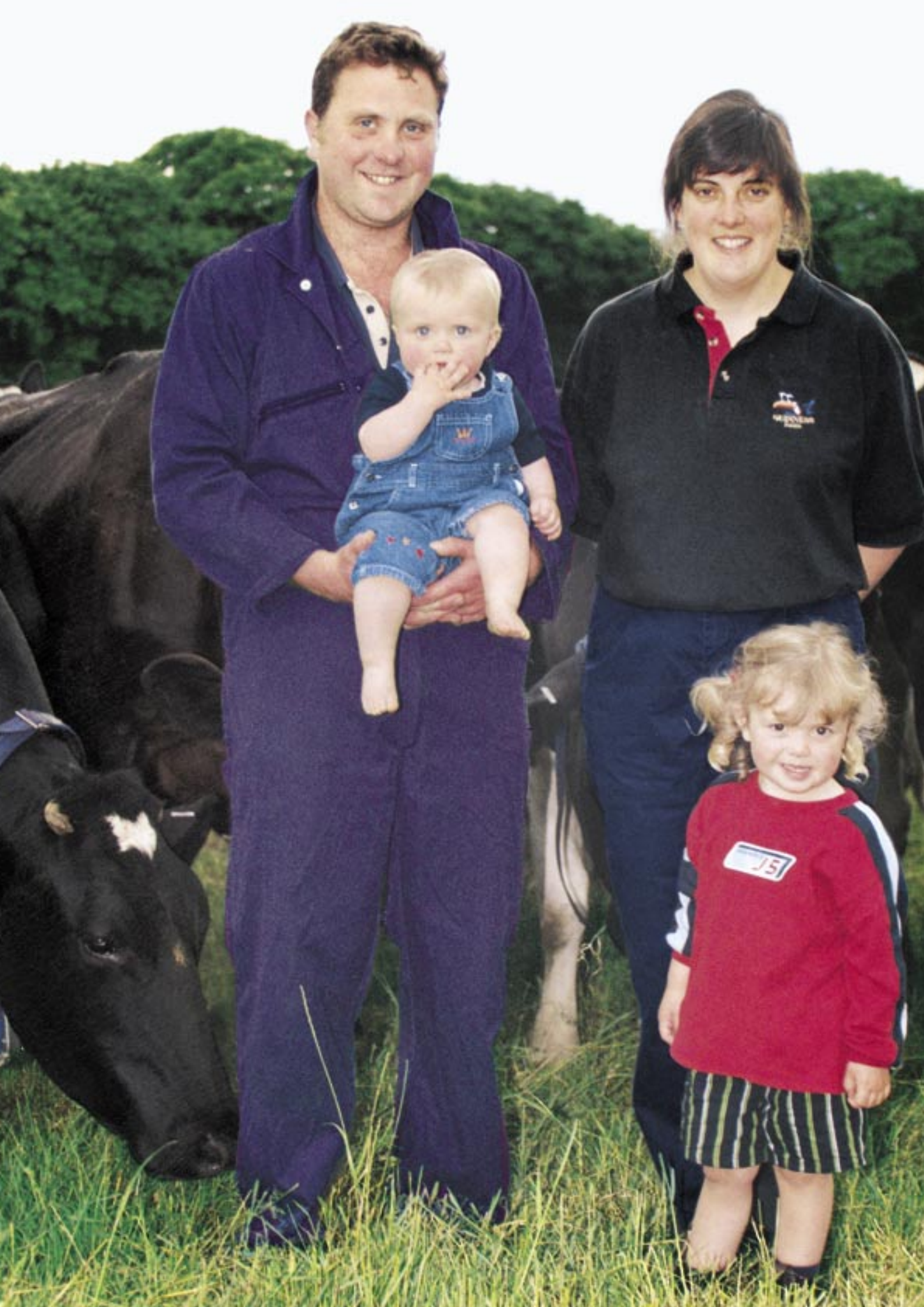




Tandem parlour milking systems

Efficient milking with focus on individual cow care and attention





The parlour that gives you individual cow attention

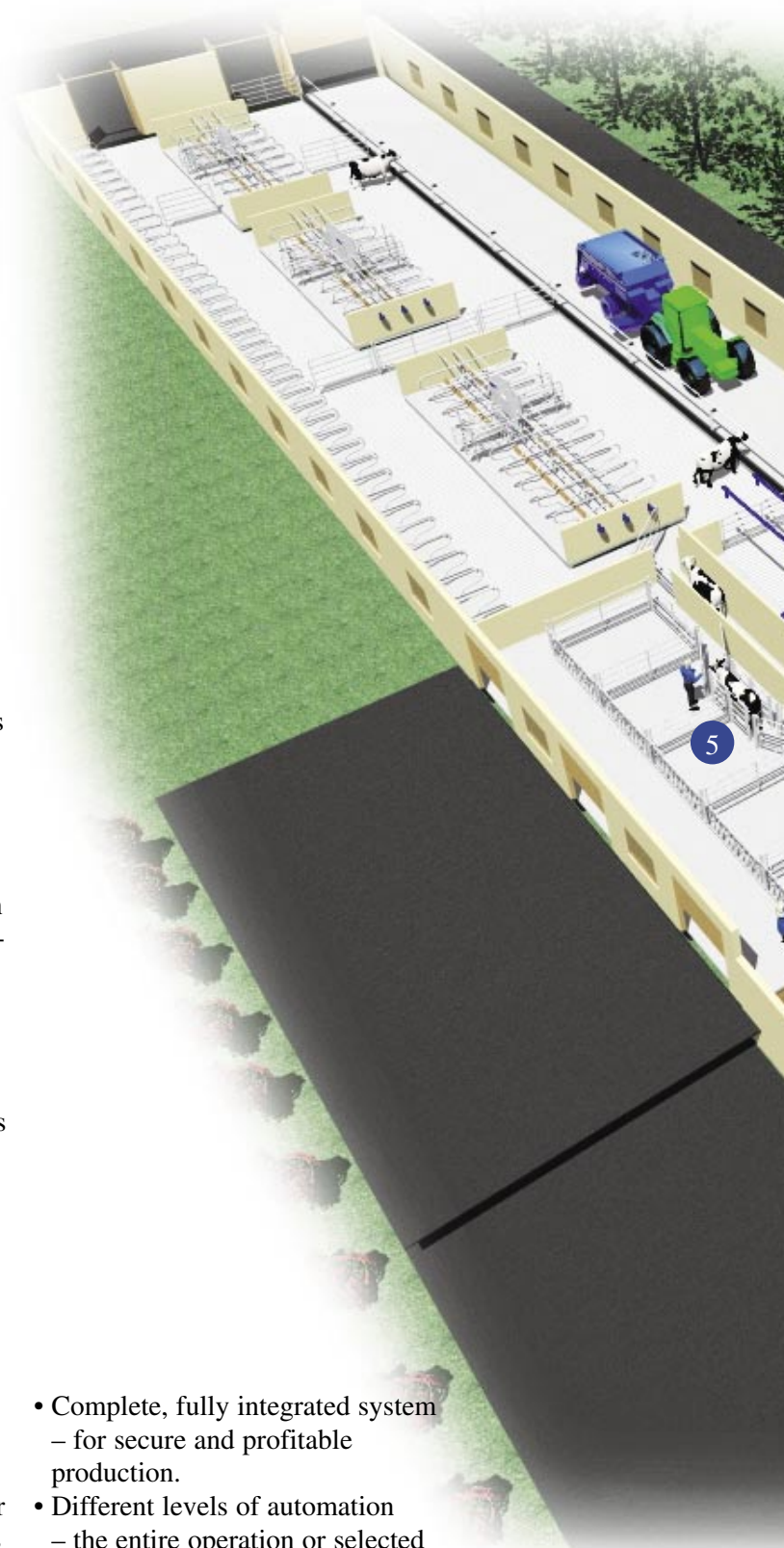
DeLaval tandem parlours are designed for side milking. The cows stand in separate stalls along the pit edge, where you have a full-length view of them.

They can also see you and soon get used to your presence. This results in a placid herd, where individual attention is welcomed by the cows and administered easily by the milker.

This personal, hands-on attention allows you to identify udder health problems, irregularities and the status of every cow in your herd. You can exchange information with the stall unit to keep fully updated on each cow's well-being. When the cow is milked, the system will automatically release her and find another cow to take her place, so that you can concentrate on the milking process.

Efficient use of your labour will result in less parlour time, meaning more time for you to devote to other farm tasks. Shorter milking sessions also mean cows can spend more time eating, drinking and resting. As a consequence, the conditions for milk production are greatly improved, resulting in extra profit and a more comfortable work routine for you.

- Complete, fully integrated system – for secure and profitable production.
- Different levels of automation – the entire operation or selected parts of the process.
- A wide range of options to customise your new parlour.
- A full service program to support you when the unexpected happens.



on



1. Milk room
2. Machine room
3. Parlour
4. Collecting yard with DeLaval cow mover
5. DeLaval sort gate



The most comfortable milking routine for your herd

A tandem parlour milking system from DeLaval means your cows enjoy a comfortable milking. This is what UK-based farmers Claire & Andrew Brewer found:

“We were using a parlour which was installed in 1967. Our cows grew bigger – due to the Holstein influence in our breeding – and would not fit the parlour anymore. After 30 years the parlour had come to the end of its life, even though it was a DeLaval!”

“We decided on a 2 x 5 DeLaval tandem parlour because we liked the individual care and attention we could give the cows. The tandem parlour lets slower milking cows – who provide a lot of milk – receive the attention they require and still not delay the entire herd.”

“We thought that you could either have speed or comfort in the milking parlour, but with our automated tandem we have a good throughput and very comfortable working conditions.”

“Although we looked at other machines, we came back to DeLaval because the overall quality was so good. We could have chosen a cheaper machine but I’m glad we bought the DeLaval. The service has been excellent and we haven’t needed many spare parts.”

Safe and pleasurable milking for you

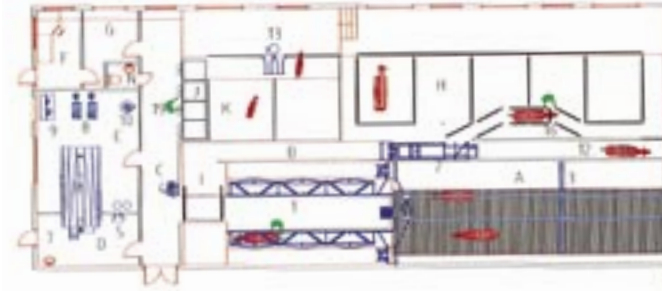
DeLaval tandem parlour puts you comfortably close to the cows udder. It features a pit edge with a soft, rounded front panel – minimising the need for concrete structures.

But more importantly, it shortens the udder to milker distance. This means the milker can easily see and reach the cows during milking, avoiding the sideways twisting associated with cluster attachment or udder inspection. This ergonomic position considerably lessens the physical strain of milking.

The tandem milking parlour’s pit layout allows you to move smoothly between the cows and when you stand back, you get a complete view of the cow. With the optional in-parlour-feeding system you can even see if she is eating her feed, or if she has left any at the end of milking.

Separating cows requiring special attention is easy, because they exit individually.

Making milking a calm, safe and natural process for your cows



DeLaval tandem parlour supports fast and efficient cow traffic.

A stall automation level for all parlour layouts

DeLaval tandem parlour provides you with the unique opportunity of installing the level of automation to suit your needs.

In the traditional tandem parlour the gates are operated manually with simple switches. This is still ideal for small parlours with few cows. From this basic manual controlled tandem for small herds it is possible to automate various functions of the parlour to accommodate the needs of larger herds.

For maximum cow and operator comfort, where the objective is to milk a larger number of cows but still retain the individual attention and operator comfort of the tandem system, we recommend ALPRO®.

ALPRO®

ALPRO® automated cow traffic is versatile in that it can be adapted to various cow traffic patterns and milking routines. This widens the choice of building layout, making the utilisation of an existing farm building much more practical. The system's electronics are more than capable of compensating for imperfect, irregular traffic patterns.



Comfortable working positioning.

Moreover, as you and your herd become used to ALPRO®, parameters can be set in order to speed up the throughput, without ever having to stress yourself or the cows.

The system incorporates simple electronic photocells that track the cow's progress through the tandem stall and transmit this information to the ALPRO® controller. The process is as follows:

Welcome to the parlour

When a cow has left a particular milking stall, ALPRO® automatically closes the gate behind her and opens the entry gate, ready for another cow to enter. The main gate is opened and the next cow enters. As soon as the cow is clear of the

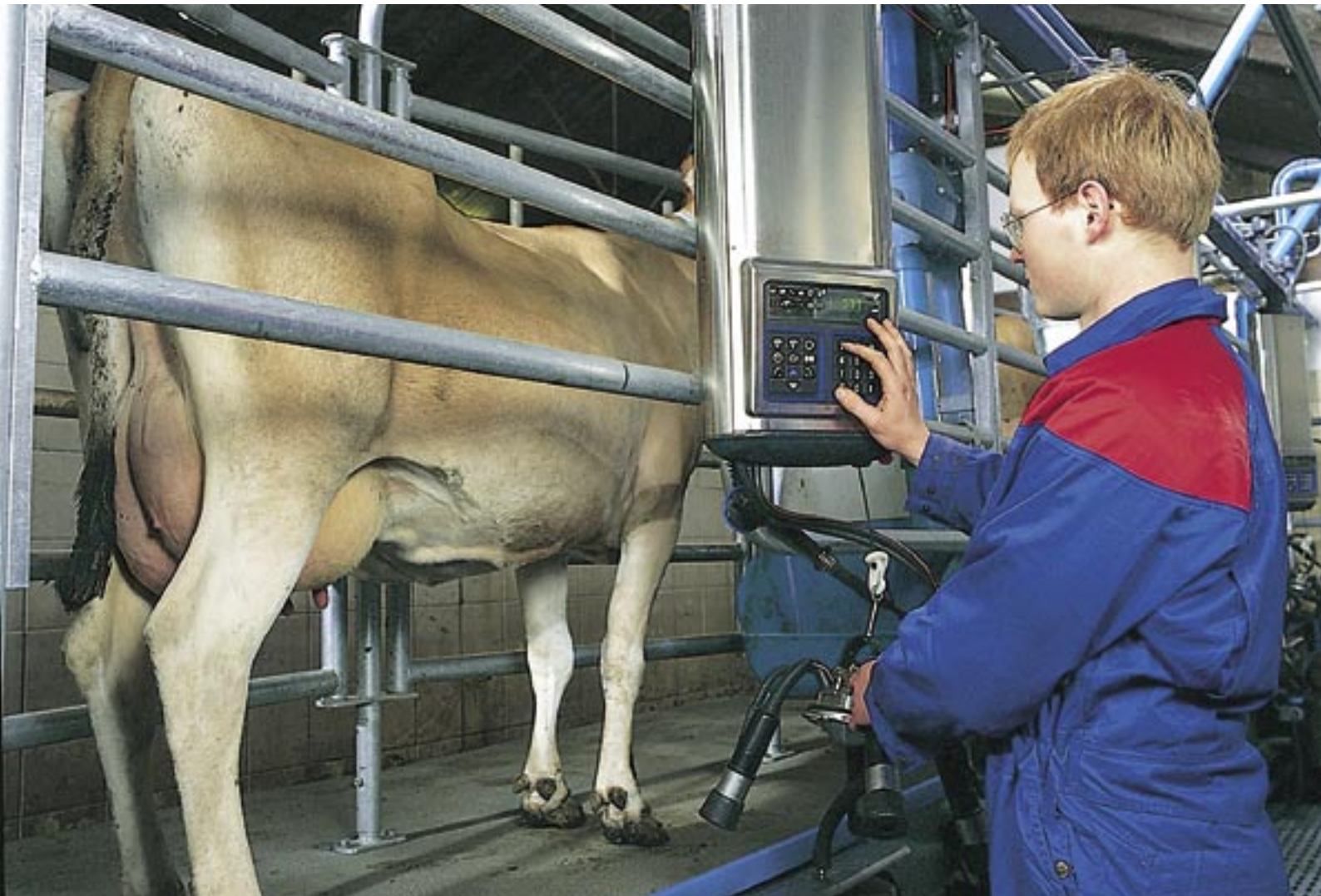
main gate, the gate quickly closes, thus preventing another cow from following into the parlour.

My own stall

The cow has plenty of time to walk to her milking stall, which remains open until she is comfortably inside. ALPRO® is updated with the information that the cow is in the stall as the photocell beam has detected and kept track of her movements. ALPRO® now understands that it is time to gently close the gate, thereby securing the cow inside the stall, ready for the milker to attach the cluster.

I have finished milking

ALPRO® checks on the next cow that has finished milking and on finding her, ensures that the cluster is removed. The cow now waits for the milker to inspect and dip her teats. ALPRO® provides for this waiting time. Once the cow has been checked, ALPRO® opens the stall exit gate, allowing the cow to exit the stall, and so the cycle continues in your DeLaval tandem milking system.



Hold her udder and your profits, the naturally beneficial way

The milking cluster is the only real point of contact between cow and machine. Because every cow has a different shaped udder, this 'point' needs to be gentle yet firm and encourage milk release.

Tested on our own cows first
DeLaval liners have been developed according to the cow's physiology and the calf's suckling motion. Based on years of herd research, the liners are designed to milk out efficiently and hygienically.

A perfect fit
DeLaval milking systems offer you the flexibility of choosing from a number of different clusters. The range comprises Harmony®, DeLaval cluster TF360 and DeLaval cluster HCC150.



Harmony®

Harmony clusters
Harmony® and Harmony Plus™ are lightweight clusters made of high quality material, to deliver excellent milking performance.

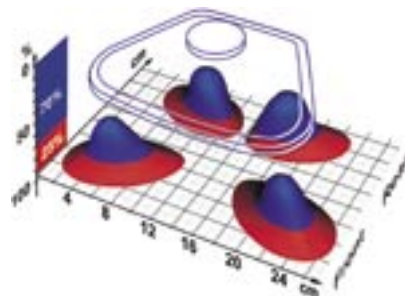
These well-proven clusters provide optimum teat massage, while minimising teat end impact and vacuum fluctuations.

Harmony clusters enable high-yielding cows to maintain udder health and high-quality milk production. This helps simplify handling, speeding up attachment and removal.

Harmony Plus™
Research proves that most cows have their front teats located further apart and higher up, than their rear teats. The design of Harmony Plus™ reflects this difference with an asymmetric claw – ensuring a perfect match with the cow's udder.

This unique design ensures fewer slips and fall-offs.

Harmony Plus™ is also lightweight, making cluster attachment easier.



This 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.

DeLaval cluster TF360
DeLaval cluster TF360 is for those requiring efficient, high yield milking, but offers a heavier cluster to acknowledge personal preference.

This cluster includes proven DeLaval liner design.



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



DeLaval cluster HCC150

DeLaval cluster HCC150
DeLaval cluster HCC150 is designed to cater for herds with lower milk flow per milking. The DeLaval cluster HCC150 has been designed to provide stable vacuum conditions, efficient liner movement and optimum cluster position.



DeLaval cluster TF360



A choice of milking points to suit your requirements



ALPRO® Windows* herd management means reliable herd data analysis.



DeLaval activity meter helps provide control of your herd's breeding.



ALPRO® processor is dedicated to providing real-time information, continuously.

With DeLaval Tandem parlour you can tailor the milking point to suit your needs. From the basic parlour to the most automated version, DeLaval can personalise your parlour to suit you.

ALPRO® – the professional herd management tool

ALPRO® is a totally integrated system for monitoring and controlling milk production on a dairy farm.

Every hour, every day, all year round – ALPRO® controls feeding, records milk yields, monitors cow activity and provides you with immediate access to crucial information. This system provides information support through herd health maintenance, feeding, breeding and even future planning.

Recording daily milk yields is primary to fine tuning your herd and keeping it healthy. Recording results helps you adjust parlour conditions and provides essential input for long-term herd improvement.

DeLaval offers milk meters and milk indicators to compliment all milking points. These range from milk yield indicators – for overall production and feeding management – to full ICAR** -approved milk meters that detail cow management.

DeLaval milking point MP100

Built for smaller herd needs, DeLaval milking point MP100 provides reliable milking equipment without high automation. Well-established functions – like pulsation

– are tailored to smaller herd installations and can be configured with Duovac® flow controlled milking.

DeLaval milking point MP400 with automatic cluster take-off

DeLaval milking point MP400 monitors milk flow and ensures automatic cluster take-off at the right moment. DeLaval can also provide optimal herd settings, to further prevent the possibility of teat damage and poor udder health.

This milking point encourages milk flow from attachment to release via an electronically controlled pulsator – for fast milking and good udder health.



DeLaval milking point MP400 ensures automatic cluster take-off at the right moment.

* Microsoft® Windows™ is a registered trademark of Microsoft Corporation, USA.

** International Committee for Animal Recording.

Professional dairy farm management requires an automated system that gets the job done – efficiently and effectively – while growing with your business.

The combined components are based on solid field research and testing. They incorporate simple installation, higher productivity, greater reliability, first-class hygiene and an improved working environment.

DeLaval milking point MP700. High level automation puts you in full control

The DeLaval range of milking equipment is second-to-none and DeLaval milking point MP700 is no exception.

All the components are enclosed in a stainless steel cabinet, ensuring parlour noise reduction and greater durability.

DeLaval milking point MP700 reduces walk time – by incorporating gate control – and can record accurate milk volume via linkage with DeLaval milk meter MM15 or MM25.

You have immediate access to the cow database and all herd management functions, providing real-time solutions.



DeLaval milking point MP700 provides you with immediate access to your herd's database.

DeLaval has a range of milk meters to suit individual requirements.

Parlour systems for highest quality milk



DeLaval cleaning unit C200 automatically cleans your milking system.

detergents to ensure your parlour is as clean as possible.

Stable vacuum you can depend on

A stable vacuum pump is one of the most important milking system features, because effective operation depends on it. DeLaval vacuum pump DVP is a direct-driven vacuum pump, delivering smoother, quieter vacuum flow and reduced service.

Reliable cleaning, cooling and vacuum are essential for top quality milk. and there is little room for compromise.

DeLaval cleaning unit C200 and C100E

Effective cleaning means having full control of several parameters – including water temperature, detergent concentration, mechanical force and cleaning duration. Managing these manually means time and possibly error.

DeLaval cleaning units solve this problem automatically, utilising a safe and simple operation procedure.

Packed with cost-saving features for decreasing water and detergent consumption, the easily installed units require minimal operational space.

DeLaval is always at hand to provide you with expert advice and professional support. We also have a wide range of powder and liquid



Quiet and direct-driven. DeLaval vacuum pump DVP generates a reliable vacuum supply and helps cut maintenance and energy costs.



DeLaval cooling tanks for fast, efficient milk storage.

Noise levels can in fact be reduced to a low 72 dB!

DeLaval vacuum pump DVP is built to deliver more suction per kW – saving energy – and uses less running oil. Also, DeLaval vacuum pump oil assures good lubrication in all temperatures, aiding the pump's effective operation and lifespan.

You save money and milking-relat-

ed headaches, with DeLaval vacuum pump DVP.

Cooling for quality milk and energy savings

Milk has a natural resistance to bacteria after extraction. The only sure method for retaining milk quality – while controlling micro-organism' growth – is rapid cooling.

DeLaval cooling tanks adhere to this fact, providing a constant storage temperature of 4 – 6 °C.

In addition, direct expansion technology helps cut energy consumption, whilst the integrated control unit provides convenient automatic cleaning.

Tandem parlour milking systems



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 programme that covers 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 parlour milking system working at peak efficiency.

DeLaval parlour 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.