DeLaval parallel parlors

Throughput in the fast lane
The more relaxed the cow, the faster the cow-flow

Throughput in the fast lane: if you want to achieve smooth cow-flow and fast milk let-down, cows must feel relaxed in the parlor.

At DeLaval, we help you achieve fast throughput by ensuring cow traffic runs smoothly, milking equipment performs optimally, and that milking is fast and effective. In this way, you can help maximize throughput and milk yield, while minimizing costs per pound of milk.

With the help of our parallel parlors, dairy farmers around the world are producing high quality milk, effectively – parlors that are reliable with a proven track-record.

When you invest in a DeLaval parallel parlor, you acquire an integrated system. It’s the seemingly small things that can make a big difference: the design of the neck rail, for example, or the width of the lane, or the way entrance gates open. These unique design innovations lead to time and labor savings. Small differences add up to give you consistently higher throughput.

Complete solutions for higher throughput

With DeLaval parallel parlors you will achieve:

- Faster throughput
- Optimal cow comfort
- Operator friendliness
- Integrated automation
- Flexible design for upgradability
- Low maintenance
Champion™ parallel parlor

High throughput for 24/7 milking. Maximum cow comfort

Champion is a heavy-duty parlor designed for use on medium to very large farms. With the sequencing gates mounted on the neck rails, the cow platform is left completely open for extra high throughput. Neck-rail mounted gates also mean that posts do not have to be cemented in the cow platform, which allows for same-day installation in existing parlors.

**Faster cow-flow**
- Sequence gates mounted on neck-rail – shorter loading time for all sizes of cow.
- Vertical lift and – faster emptying can be installed in existing buildings.
- Unique, open bottom neck rail – designed with understanding of how cows move for faster entrance and exit.
- Wide entrance lane with sliding entrance gate – quicker entry and easy turning encourages fast loading of cows.
- All-Index™ – optimum positioning of cows for better udder prep, operator comfort and safety.
- All-Exit™ – all cows exit on each side with one push of a button, which helps save time.

**Better workflow**
- Suspended butt-pan – unobstructed view of the udder resulting in better working environment and operator comfort. The vertical design of the butt-pan provides a wider gutter and easier cleaning.
- Remote start – initiate take-off without reaching up to control panel, saving operator time and energy (option).
- Air-powered indexing – gentle but firmly positions each cow back against the butt-pan. Consistent indexing positions the cows for comfortable attachment, saving operator time while providing more operator comfort.
- Deck flush – automatically cleans platform reducing risk of contamination (option).

**Faster installation**
- Sequencing gates mounted on neck-rail – gates do not have to be cemented in floor.
- Bolt-together design – reduces on-site welding and reduces risk of incorrect installation. This also speeds up the installation process for faster start-up.

**Robust and reliable**
- Robust structure – provides low maintenance and long parlor lifetime.
- Heavy-duty cylinders and no steel-to-steel wear points provide excellent reliability.
- Air control box with built-in filter – provides pneumatics with clean air for longer life of air components.
- In-place ID provides accurate ID information and data integrity (option).

**Cow comfort**
- Open platform – easier to keep clean.
- Lifting draw-bar – optimized lifting of sequencing gates keeps cows relaxed while milking.
- Cluster support – provides comfort for both operator and cow by ensuring perfect cluster alignment, preventing liner slip and helping to reduce risk of mastitis (option).
- Adjustable air bellows – allow different pressure settings for gentle, slow but firm indexing of cows.
DeLaval EnDurance is a heavy-duty parlor designed for large- to mega-sized herds that require around-the-clock milking. This no-compromise parlor can handle the toughest conditions with minimum maintenance. It includes a number of exclusive features such as Gang-Exit™ and Gang-Index™ to optimize labor time and operational costs.

**Faster cow-flow**
- Unique, open bottom neck-rail - designed with understanding of how cows move for faster entrance and exit.
- Wide entrance lane with sliding entrance gate – quick entry and easy turning encourages fast loading of cows.
- Gang Index™ - begin attaching units to first gangs while other gangs of cows are still being loaded.
- Gang-Exit™ - lets you release gang of 4-5 cows as they finish milking for better cow flow.
- Ergonomic sequence gates: cow-friendly design with the top of the gate below the hip-bone of the cow. The curved sequence-gate posts give cows the space they need to turn comfortably as the move into the stall, resulting in faster loading.

**Better workflow**
- Suspended butt-pan – gives unobstructed view of the udder resulting in better working environment and operator comfort. The vertical design of the butt-pan provides a wider gutter and easier cleaning.
- Remote start – initiate take-off without reaching up to control panel, saving operator time and energy (option).
- Exit Plus – automates exit-entrance sequence to save operators time (option).
- Air-powered indexing – gently but firmly positions each cow against the butt-pan. Consistent indexing positions the cows for comfortable attachment, saving operator time while providing more operator comfort.
- Deck flush – automatically cleans platform reducing risk of contamination (option).

**Robust and reliable**
- Robust structure - provides low maintenance and long parlor lifetime.
- No steel-to-steel wear points - 76 mm x 152 mm (3x6”) beams and heavy-duty 127 mm (5”) duplex cylinders provide excellent reliability.
- Air control box with built-in filter - provides pneumatics with clean air for longer life of air components.
- In-place ID provides accurate ID information and data integrity (option).

**Cow comfort**
- Cluster support - provides comfort for both operator and cow by ensuring perfect cluster alignment, preventing liner slip and helping to reduce risk of mastitis (option).
- Duplex cylinders - allow different pressure settings for gentle, slow but firm indexing of cows.

**Faster installation**
- Factory assembled – having maximized pre-assembly, installation errors are minimized for fast installation.
DeLaval Cascade delivers top-of-the-line performance at the right price. It’s a heavy-duty parlor designed for medium- to large-sized herds that require round-the-clock milking. Together with its swing-up exit, DeLaval Cascade gives you the flexibility to tailor a parlor from basic configurations to more efficiency-enhanced solutions.

Cascade is designed to increase the speed of cow traffic with smooth cow-flow, while offering significant time and labor savings.

**Faster cow-flow**
- Unique open bottom neck-rail – designed with understanding of how cows move for faster entrance and exit.
- Wide entrance lane with sliding entrance gate – quick entry and easy turning encourages fast loading of cows.
- All-Index™ – optimum positioning of cows for better udder prep, operator comfort and safety.
- All-Exit™ – eating of all cows on each side with one push of a button, which helps save time.
- Gang Index™ – begin attaching units to first gang while other gangs of cows are still being loaded.
- Gang Exit™ – take you release each cow gang as they finish for better cow-flow.

**Better workflow**
- Suspended butt-pan – gives unobstructed view of the udder resulting in better working environment and operator comfort. The vertical design of the butt-pan provides a wider gutter and easier cleaning.
- Exit Plus – automates exit-entrance sequence to save operators time. (option)
- Air-powered indexing – gently but firmly positions each cow back against the butt-pan. Consistent indexing positions the cows for comfortable attachment, saving operator time while providing more operator comfort.
- Clock flush – automatically cleans platform reducing risk of contamination (option)

**Robust and reliable**
- Heavy-duty – designed for 24/7 milking. Cascade offers reliable operation and low maintenance costs.
- Air control box with built-in filter – provides pneumatics with clean air for longer life of air components.
- In-place ID provides accurate ID information and data integrity (option).

**Cow comfort**
- Cluster support – provides comfort for both operator and cow by ensuring perfect cluster alignment, preventing liner slip and helping to reduce risk of mastitis (option).
- Duplex cylinders – allow different pressure settings for gentle, slow but firm indexing of cows.
- Ergonomic sequence gates – allow for optimum positioning of cows, relaxed cows produce more milk.

**Throughput**
- Open bottom neck-rail
- Open entrance lane

**Value-for-money, 24/7 parlor with configuration flexibility**

Cascade™ parallel parlor
The integrated solution provider

Cow comfort

Hoof care

Activity monitor

Milk room

Cooling

Activity meter

Farm planning

Farm management

Crowd gate
Farm planning

Get the most out of your parlor milking system – plan today with tomorrow in mind.

Plan for success
DeLaval has the experience and expertise to help you plan a milking system that will suit your specific situation – both now and in the future.

The way in which you manage workflow is another important consideration when planning your parlor configuration.

Plan for the future
With milk yield per cow increasing and herd sizes continuing to expand, your parlor should be configured to take this into account right from the start.

Solutions to help you grow

At DeLaval, we believe that milking systems should be designed for optimal performance in order to help maximize farm productivity.

Cut energy costs by 55%
DeLaval vacuum pump LVP is available with VSD variable speed drive, and when powered by the VPC multipump vacuum controller you can save up to 55% of the energy costs of your Vacuum system. You can run smaller pumps and have more CFM per dollar, and save energy costs as well.

MC 70 Cluster
This cluster has gained a reputation for top milking performance, as well as being one of the most hygienic, durable and easy-to-use clusters on the market. When used in combination with DeLaval Clover™ liners help achieve, fast milk-out, and gentle treatment of teats.

Easy-to-use and evolutionary milking points
DeLaval provides a range of milking points: starting with a take-off only option progressing all the way to premium herd management solutions - and always based on your needs. Whatever your choice, your automation solution is fully upgradable at any time.

Milk recording
Effective monitoring of milk with ICAR-approved milk meters and non-ICAR indicators provide the information you need to improve cow health and milk quality. DeLaval ICAR-approved milk meters, such as the MM379C, go a step further in monitoring blood traces in milk, conductivity, kick-off and air entry into liners.
A farm management system collects and processes data around the clock, 24/7. It helps to identify trends and supports you in developing strategies at an early stage, helping you to manage your herd and identify cows in need of extra care.

The right decision at the right time
A herd management tool is essential for all farmers who are interested in optimizing production. DeLaval farm management system is a modular concept that allows you to manage sorting, feeding, milking and breeding as one integrated business operation. This optimum herd management solution keeps track of each animal, monitors trends and evaluates options.

The power of control
Knowledge is a powerful tool. Reliable ID and milking point controllers help you to manage your milking process in an accurate way and provide you with valuable information.

Easier herd management
Lactation curves can be displayed graphically as can the development and trends of fat, protein and somatic cell count. Activity meters and a breeding calendar are powerful tools in your reproduction management.

Crowd gate
An intelligent cow traffic system ensures optimal cow flow and labor usage. Partor integrated crowd gates ensure a smooth flow of cows from the waiting area into the parlor. Swing-up and vertical-lift crowd gates often provide the optimal solution.

Energy Recovery
ERS Energy Recovery Units can save up to 70% of the energy used to heat water and dairy. With cooling and heating consuming a large amount of energy, energy used on dairy, ERS can help reduce this cost.

Herd Navigator™
Herd Navigator is the ultimate early warning system. With a 95% heat detection rate – including detection of silent heat – you are able to step the day-to-day monitoring of our herd for signs of heat. Herd Navigator pinpoints the cows which are in heat and should be inseminated. It can easily detect 80% of cows that have sub-clinical mastitis and less, before any clinical signs are visible. (May not be available in all markets)

Cooling
DeLaval offers a range of effective cooling and pre-cooling systems that can be tailored to meet the needs of a productive farm. They ensure that milk is cooled down rapidly and kept in motion, thereby avoiding the risk of heat development. In short, they keep milk fresh, so that you can help maximize milk quality and secure milk premiums.

Calf Feeding
Milk productivity is dependent upon healthy, high yielding cows. And as today's calves are tomorrow's high performance cows, the way you raise them can make all the difference. Calves that are healthy and fast-growing may reward you by becoming high yielding cows that are productive for many years.

Hoof care
If a cow becomes infected, the last thing you want is for the infection to spread among your herd. You can help minimize the risk by treating and cleaning hooves as cows leave the parlor with our footbath and hoof care products. Prevention with regular hoof care will increase cow productivity and longevity.

Feedtech®
Feedtech® includes a range of products that are made specifically for different silage crops. Feedtech is developed to help improve feed quality and help provide for better animal health. As we demand more production from our animals than ever before, it is important we adopt good nutrition practices for a positive impact on production, efficiency, immunity and disease resistance in order to enable our dairy herds to produce optimum levels of the highest quality milk.

Calf comfort
DeLaval supplies a wide range of proven solutions, equipment, consumables and accessories to help you control the production of the highest quality milk from healthy cows. Help your animals relax in a more hygienic, ergonomic and comfortable environment.
Lima Ranch – California, USA  
2x30 DeLaval EnDurance™ parallel parlor

Jack Hamm looked at many parlors before deciding on the EnDurance™ parlor. He says that he made his choice based on the parlor’s unique features: "What caught my eye were the strength of the exit gates and the dependability of the milking system because all of the components are efficiently combined." Other features he was interested in included activity meters and cow identification.

Jack says he is more than satisfied with the results to date: "Everything has worked to maximum satisfaction here. We can use cow identification and daily milk weights to increase milk yield, so milk production has gone up. Our milk quality has been excellent since we bought the new barn and I strongly credit DeLaval with that."

The DeLaval solution gives Jack flexibility because the cows can be milked so quickly: "We are very confident that we can quickly gain a return on our investment with this system because it’s totally dependable and we can use it efficiently 24 hours a day, seven days a week."

Monica Dejno, Dejno Acres – Wisconsin, USA  
2x16 DeLaval Champion™ parallel parlor

“The parallel parlor was the best fit for our farm and management style. We evaluated a number of parlors, but we were impressed by the way Champion operated. It also seemed to offer heavy-duty stalling – we wanted something that was going to take us through the long-haul.

“Cow-flow in the Champion works great. There’s little obstruction and with its open bottom neck-rail, the cows come into the parlor in a natural way. They turn with ease and have easily adapted themselves to the new parlor.

“Vertical lift makes it possible for all the cows to leave at once, quick and easy. This also means we can bring the gate back down and start loading the next group in an efficient way. We chose a solution that worked for both us, and the cows. And then there were a number of additional features we really liked such as deck flush, remote start and CIP doors.

“We are very satisfied with DeLaval: we appreciate the service, products and technologies like milk meters, milk controls, sort gates, and especially herd management which really helps us dairymen to be more efficient and effective. Champion is a system that is very user-friendly and comfortable for us – and our cows – so we are really happy with our decision."