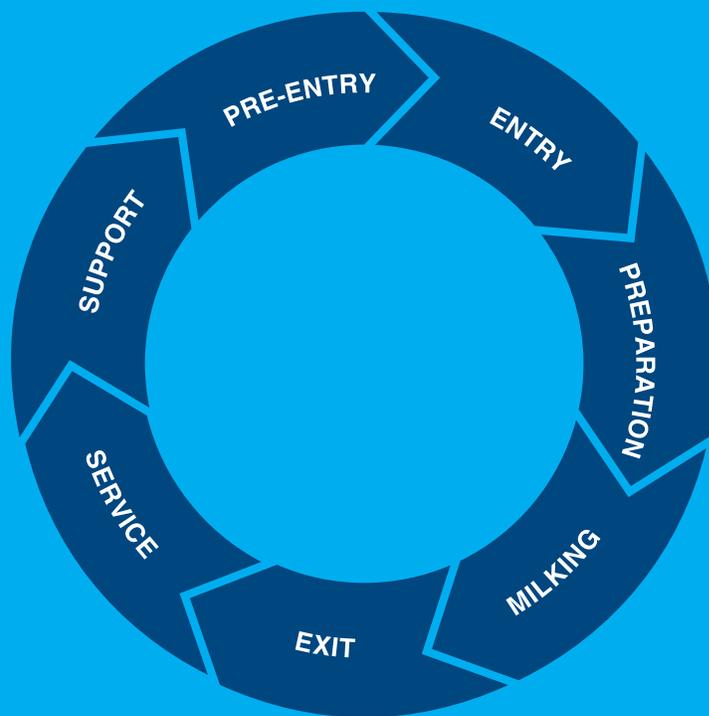


DeLaval Rotary E500

PUTTING IT ALL TOGETHER



The DeLaval Rotary E500 is designed to generate throughput efficiency by using the deep understanding that we have built up over more than 135 years. You will see the benefits of this experience, combined with our eye for detail, in everything from how the Rotary E500 works with cows' natural movements and physiology, to how it makes it easy and safe for workers – all built around a milking system that delivers advanced extraction, vacuum and pulsation settings for fast, gentle milking.



PRE-ENTRY

The throughput, speed and efficiency generated by the DeLaval Rotary E500 all starts at the pre-entry phase.

Time in the holding area is wasted time – time that would be more efficiently utilized eating, resting or being milked. That's why the E500 is designed to help you minimize this unproductive waiting.



Stress in the holding area should be minimized as much as possible. Reduce stress with proper ventilation, properly sizing the holding area, using the crowd gate to only encourage cows to move forward and keeping staff out of the holding area.

TAKING A 360° VIEW



Animal Welfare

Short waiting times and a calm, fast process is key to rumination and cow health.



Farm Profitability

Eliminating the time wasted fetching animals means more time on important tasks.



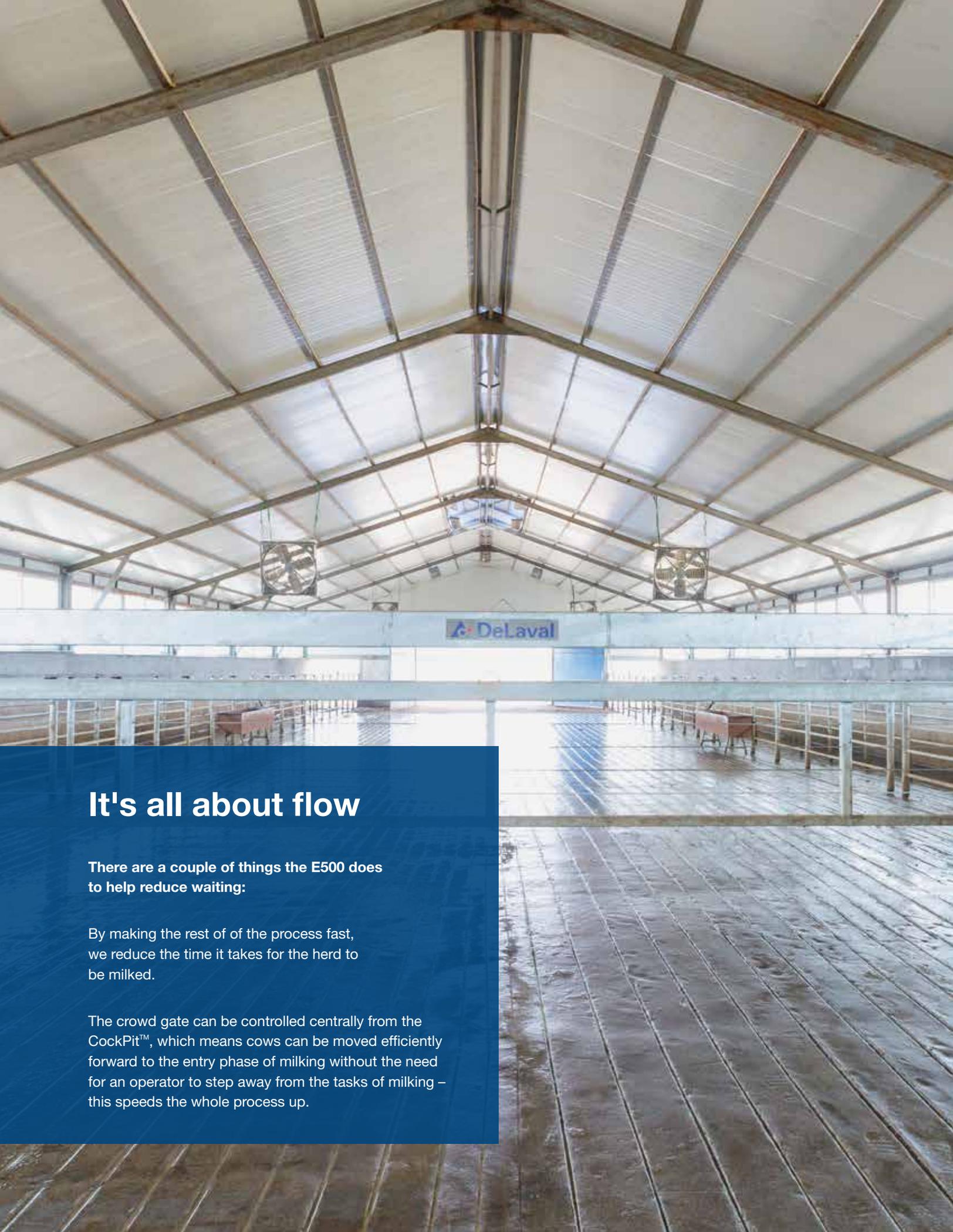
Work Efficiency

The ability to increase throughput as well as improve cow productivity.



Food Safety

A reduction in stress can lead directly to an improvement in milk quality.



It's all about flow

There are a couple of things the E500 does to help reduce waiting:

By making the rest of the process fast, we reduce the time it takes for the herd to be milked.

The crowd gate can be controlled centrally from the CockPit™, which means cows can be moved efficiently forward to the entry phase of milking without the need for an operator to step away from the tasks of milking – this speeds the whole process up.



ENTRY

We have designed and built many of the world's largest dairy systems, so we know how to make them operate as efficiently as possible. It is this continuous flow of cow traffic that makes entry so important.



In our most efficient systems, the key to unlocking faster entry is the design of the entry lane. If not designed properly, the entry lane can act as a bottleneck that decreases loading speed and lead to more empty bails on the deck.

By using the proven 1.5 cow entry pioneered on the very largest, fastest systems, the E500 is able to provide some of the best rotary efficiencies available today.

Results over the last 10 years have shown that with 1.5 cow entry, 20 times more cows get pushed through by herd mates. This push and competition among cows makes entry much faster because any slow cows in front will be bypassed until they feel ready to join, which results in fewer empty bails.

TAKING A 360° VIEW



Animal Welfare

Works with herd hierarchy to make it possible for sorting and movement to occur without stalling entry.



Farm Profitability

Fast, smooth entry designed for fewer disruptions to routines for operators.



Work Efficiency

A fast, safe entry helps you milk more cows with few labor hours.



Food Safety

Cows are positioned to increase access to the udder for milking preparation.



1.5 Cow Entry

With exactly the same entry mechanics as the legendary DeLaval Rotary PR3100 which sets the standard on many of the world's largest dairy operations - The Rotary E500 delivers an entry system that provides fast and smooth entry.



PREPARATION

The FastBail™ is designed to make preparation easy, fast and effective. With minimal obstructions to the operator, the prep routine can be a smooth operation without the need to handle items not part of the prep routine.



Preparation is the key to an efficient milking process

Correct preparation procedures help to:

- Trigger let-down
- Ensure hygiene
- Ensure udder health
- Maximize milk flow
- Shorten milking times

Correct preparation and stimulation helps to deliver shorter milking times and less damage to teats. Studies conclusively show that teat end condition is highly correlated to new mastitis infection. That is why preparation is so critical.

TAKING A 360° VIEW



Animal Welfare

Designed for easy access and visibility, allowing thorough and consistent udder care.



Farm Profitability

Better preparation could improve milk yield and quality while reducing health costs.



Work Efficiency

Excellent hygiene and superior stimulation could help you achieve a higher yield.



Food Safety

Superior cleaning and stimulation could help to improve milk quality.





MILKING

Everything we do at DeLaval is about better milking. The DeLaval Rotary E500 has been designed to include many of our latest and exclusive milking innovations.



*Not all features available in all markets

TAKING A 360° VIEW



Animal Welfare

Our pulsation technology combined with the latest cluster and liner technology helps you to maintain good udder health.



Farm Profitability

Designed to milk quickly and gently - it all adds up to productivity and profitability.



Work Efficiency

Ergonomically designed, simplified, fast routines with safe access to udders means more cows per hour per labor unit.



Food Safety

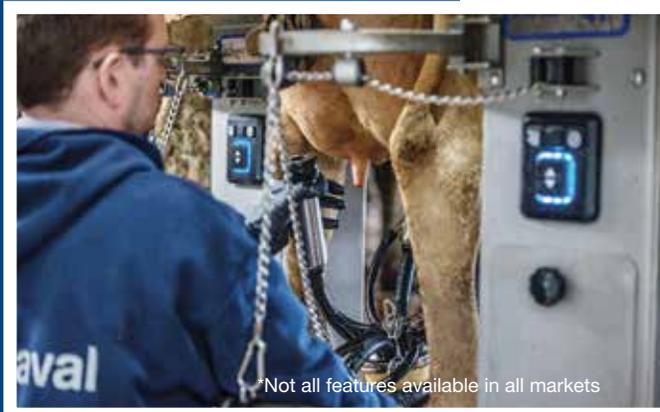
The DeLaval MC70 series clusters incorporate DeLaval TopFlow™ technology designed to reduce flooding and cross contamination.

Designed to milk better



Easy Access

Milking depends on the action of the people milking, and in the DeLaval Rotary E500 the milkers can easily find a comfortable milking position. This means it is easy, safe and comfortable for your workers to manage the milking process consistently from the DeLaval Cockpit.™



Flow Responsive™ Milking

When every second counts, if you're not able to respond to what's actually happening you will be sacrificing performance. It's the same with milking. Don't milk at one vacuum level regardless of the actual milk flow, with DeLaval Flow-Responsive™ Milking vacuum, pulsation and stimulation technology your system adjusts automatically to let you go significantly faster without compromising udder health.

Flow-Responsive™ Milking

In the past, most milking systems available operated at one pulsation and vacuum level throughout each milking session. This monovac approach means an “average” vacuum level is set to reduce the inevitable gap between the cow’s milk flow and the system’s ability to extract that milk. Now there is a new way with DeLaval Flow-Responsive™ Milking. By more closely following the milk flow of your cows Flow-Responsive Milking is able to adjust the key milking parameters of vacuum and pulsation during each milking session. The outcome is a steeper, shorter milk flow profile.

**Less
forced
take-offs¹**

Up to
+5%
average
milk flow¹

¹ Data recorded on test and pilot farms. DeLaval does not claim that these results are typical and this information does not constitute a warranty nor guarantee of service. Actual performance and improvement will depend on a number of factors, including milking practices, type of cows, farm and herd maintenance practices.



Up to
15 sec
less cups-on
time ¹

Positive
effect on
teat-end ¹

Up to
+9%
peak
milk flow ¹



Up to
40%
reduction in
bimodalities ¹

Up to
24%
less prep
time ¹

*Not all features available in all markets



EXIT

Being able to get cows to move quickly away from the rotary and bridge provides more space for the next cows to exit. Not only is it important to get cows on the deck, it is just as important to move cows away from the deck at exit.



**With FastExit™
it isn't a problem.**

Cows, like people, move much faster when going forwards. The combination of the angled bail and exit bow allow cows to begin turning sooner, and to complete the turn faster using more of a pivot action. It all adds up to cows moving faster, more comfortably and that means you can move more cows with less effort in less time.

TAKING A 360° VIEW



Animal Welfare

FastExit makes the movement more natural for cows, which puts less stress on them.



Farm Profitability

Exit speed is the key to milking more cows per hour, which means more milk in the tank.



Work Efficiency

The more efficient the rotary system the more milk produced per labor hour.



Food Safety

With an exit process that includes teat spraying, sorting and treatment, the next milking is optimized too.



The Fast Flow principle in action

To help ensure the smooth flow of cows from the platform The DeLaval Rotary E500 combines three design features to create a fast exit. The angle of the FastBail™ forms a direct line with the exit bow to create a simple straight movement that is not possible without the angle. By adding the lower height of the bail cabinet, these three features work together to keep things flowing - exactly how you like it.



SERVICE

At DeLaval, we strive to help you operate your system at peak performance and work with you to keep it up to date with maintenance and service needs.



It's all about performance

To deliver the level of performance you demand, we leave no aspect of the process to chance. That's why we don't just design and manufacture milking hardware, but we also operate state-of-the-art specialist production facilities that produce our own ranges of detergents, teat dips, liners and the consumables you need for day to day operations.

- System lubricants
- Routine maintenance
- Liners and rubber
- Filters
- Detergents
- Teat dip
- Tubes

But none of this would matter if we didn't also have a great team of expert technicians who attend regular DeLaval training courses to help ensure that every time they drive on to your farm – they have the specialist diagnostic tools, materials, skills and knowledge to keep your Rotary E500 spinning.

TAKING A 360° VIEW



Animal Welfare

Having liners, settings and detergents functioning together helps to improve udder health.



Farm Profitability

DeLaval service and consumables help keep your system running at full efficiency.



Work Efficiency

Our service staff can work with you to budget for estimated scheduled services to keep your investment operating at its peak performance.



Food Safety

Everything working together to protect the quality of your milk.



The DeLaval Rotary E500 has been designed to reduce the service load on your farm. Using time tested rotary designs the E500 is robust, reliable and ready to milk - at every milking.



SUPPORT

Local experts with global support

We know that selecting a DeLaval milking system is not a short-term commitment. In many cases it represents a long term relationship. We take this seriously, and it is the support and advice that we can provide over those years that we feel is our greatest advantage, and key to that is our independent dealer network. With so many dairy farms in so many places, it would not make sense to attempt to support all of those farms without skilled, trusted locals. That's what your DeLaval Dealer represents.



TAKING A 360° VIEW



Animal Welfare

Longevity, fertility and productivity are the key drivers for our advisory team.



Farm Profitability

Better routines, effective cleaning and ongoing system optimization helps to ensure operators can get more done.



Work Efficiency

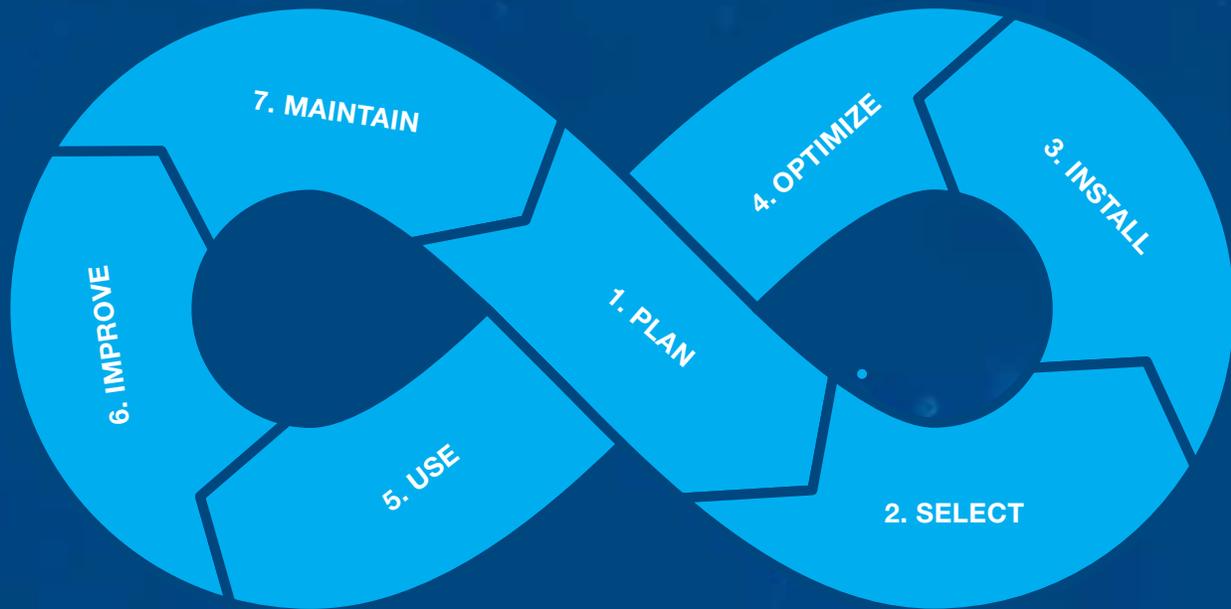
Helping to ensure your system is optimized for your herd, operators and conditions.

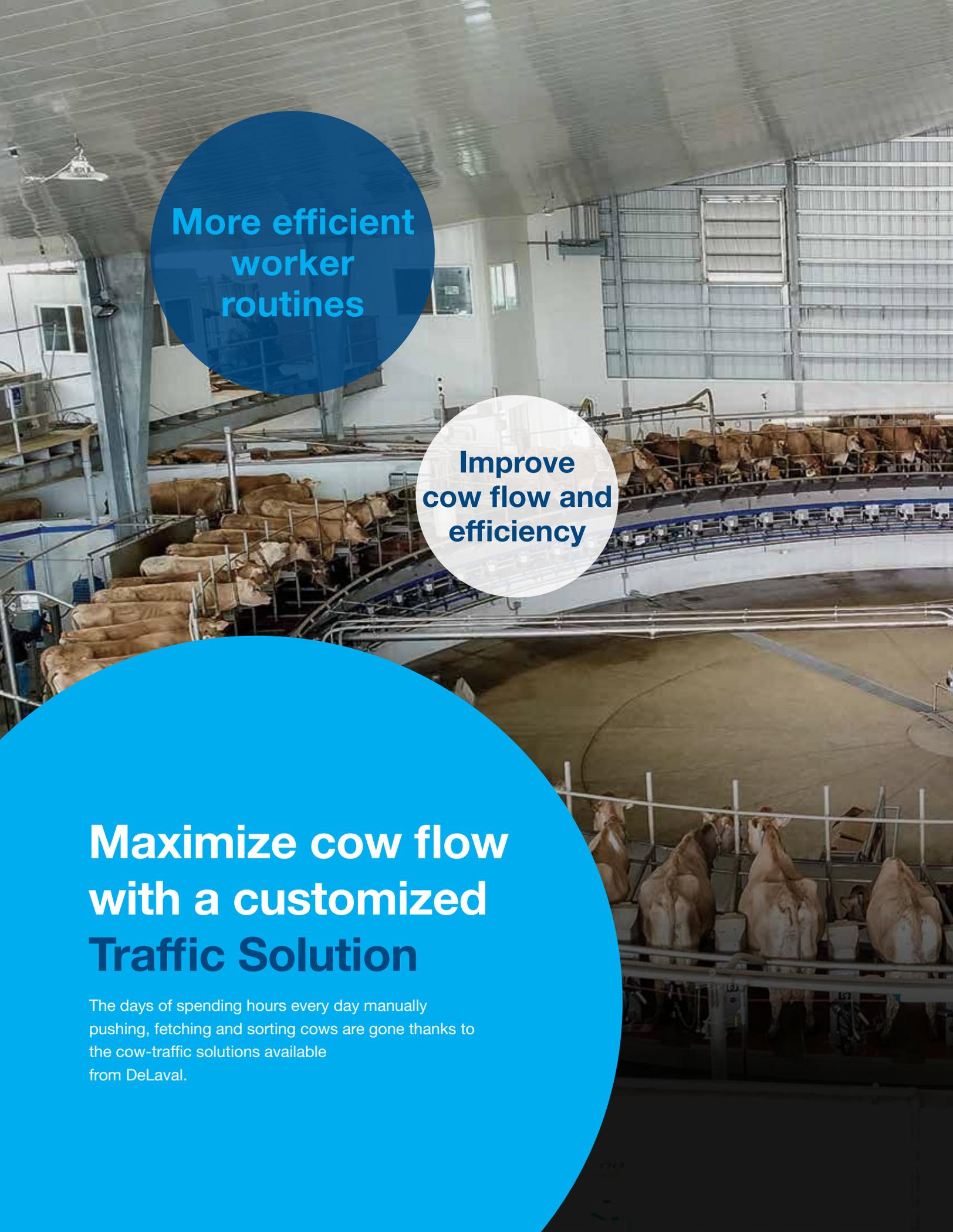


Food Safety

Transport, cooling and storage are central to the implementation of any new system.

With you on every step of your DeLaval Rotary E500 journey.





**More efficient
worker
routines**

**Improve
cow flow and
efficiency**

Maximize cow flow with a customized Traffic Solution

The days of spending hours every day manually pushing, fetching and sorting cows are gone thanks to the cow-traffic solutions available from DeLaval.

**Automate
selecting
and sorting
of cows**

**Less
stressful for
cows**

**Reduce the
risk of staff
injuries**

**Save up to
50%**

**labor time sorting
cows for milking***

It's all about Cow Flow

Modern milking systems are able to milk more cows, faster than ever. The key to unlocking their potential is making sure your cow-traffic systems are able to move cows through those systems and back to feed as quickly and safely as possible. Whatever milking system you use.

* Data from our pilot farms, not contractual. DeLaval does not claim that these results are typical and this information does not constitute a warranty nor guarantee of service. Actual performance and improvement will depend on a number of factors, including milking practices, type of cows, farm and herd maintenance practices.

We live milk



www.delaval.com

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