

# DeLaval E-Series Rotaries

## A System Approach



**IT ALL REVOLVES  
AROUND YOU**

# Total control is at the heart of every DeLaval Rotary

## Introducing the DeLaval Rotary Cockpit™

It is about giving access to more information, more automation, more functions and more technology than we've ever given them before – and to deliver it so that one person can control every milking safely, comfortably and easily, from a central point - the place where you get total control – the Cockpit of a DeLaval Rotary.

### Comfort start

Automatic start, fast attachment with low physical stress.

### Cow back off system

For the ESeries, this reduces unnecessary second rotation cows, helping to improve throughput.

### Emergency mode

For E300 redundancy is built into to allow rotation of the platform to remove cows during a failure. For the E500 redundancy is built in to allow the rotary to keep operating at a safe speed and keep all other safeties active.

### Crowd gate control

Crowd gate controls are integrated in the rotary controller for automatic advance of the crowd gate during milking operations.

### Non-negotiable health and safety features

The Rotary Controller shows on the touch screen all the safety trip positions and shows if they are triggered during the milking session. Health and safety is a priority at DeLaval.



## Farm Monitoring Camera

The DeLaval Farm Monitoring Camera provides safe supervision of the cows. The portable and wireless receiver allows for constant supervision of the cows. The milker can keep an eye on the exit area, backing gate and holding yard.



## Visual alarms

Quick visual alarms to avoid milking disruptions and to help workers and cows operate safely.

## Audible alarms

## Interactive Data Display (IDD)

Presents the status of all cows being milked at each milking point on your rotary.



## Automatic Speed Adjustment

Based on pre-programmed settings the rotary platform can automatically adjust to the required group speed, without requiring the milkers to manually interact with the rotary controller.

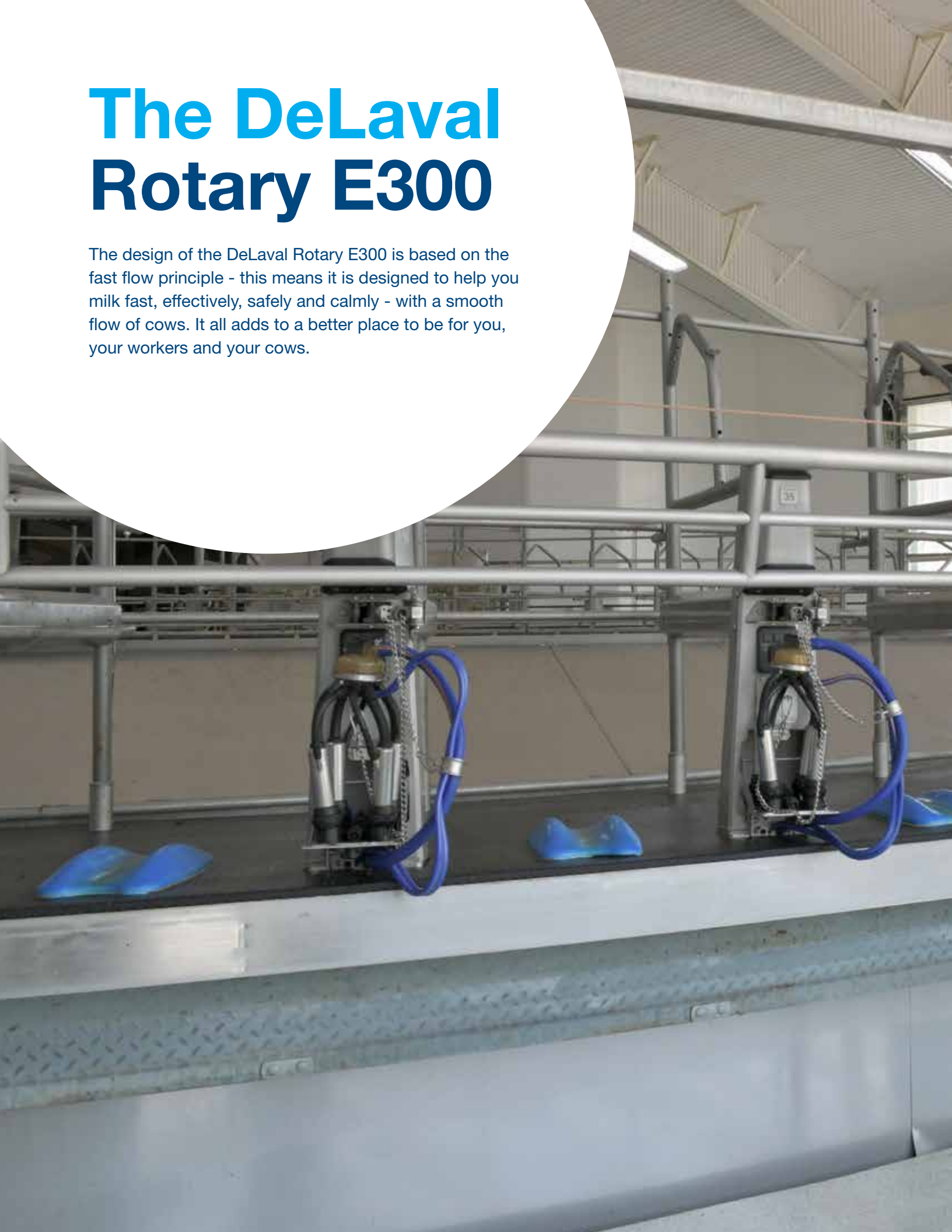
## Controller

We use full words and graphics, not codes, so decisions can be made on the go.



# The DeLaval Rotary E300

The design of the DeLaval Rotary E300 is based on the fast flow principle - this means it is designed to help you milk fast, effectively, safely and calmly - with a smooth flow of cows. It all adds to a better place to be for you, your workers and your cows.





**1**  
person  
operation  
compatible

Available from  
**30-64**  
bails

Up to  
**7%**  
shorter  
milking time\*

High efficiency  
Up to  
**3,300lbs**  
**1,500kg**  
of milk per  
FTE hour\*\*

Average dip use  
**12mLs**  
per cow  
with TSR

Results may not be typical; information does not constitute warranty/guarantee of service or performance.

\* Compared to standard configured milking system

\*\* Data recorded on Test and pilot farms.



# The DeLaval Rotary E500

When every hour counts - this is the milking system you can count on. Able to be built as large as 128 bail, these throughput machines need minimal downtime for cleaning and maintenance. The E500 features all of our leading CowFlow and WorkFlow technologies, which makes it the most efficient milking rotary we have ever built.

Up to

6

different safety devices<sup>4</sup>

Up to

7%

shorter milking time<sup>5</sup>

30%

greater throughput than existing DeLaval rotary solutions<sup>6</sup>

Results may not be typical; information does not constitute warranty/guarantee of service or performance.

<sup>1</sup> Based on 128 @ 3.38 seconds/bail

<sup>2</sup> Based on test farm data

<sup>3</sup> 120 bail\*5 sec/bail with dual pre post TSR and 2 employees

<sup>4</sup> When using dual receiver configurations

<sup>5</sup> Compared to standard configured milking system

<sup>6</sup> When compared to a 106 PR3100HD at 4.9 sec/bail

Throughput  
up to

**1066**

cows per  
hour<sup>1</sup>

Reduce wash  
times by

**15 mins**

with Auxiliary  
Swivel<sup>2</sup>

14,400lbs/milk  
per FTE Hour<sup>3</sup>

6,545kg/milk  
per FTE Hour<sup>3</sup>



DeLaval  
owned install  
team

**14**

different rotary  
sizes available



# DeLaval Flow-Responsive™ Milking



“ Flow Responsive Milking maintains a steady vacuum in the claw, especially with those larger pounds of milk flowing from the cow. It has increased our flow rates by 4.5% - 5.5%, as well as improved our peak flow rates throughout. We have been able to decrease our forced detaches by a third. ”

– Brock Peters, MVP Dairy

FARM LOCATION: **OHIO, USA**  
HERD SIZE: **3850 COWS MILKED 3X**



Full testimonial  
video (USA)



Full testimonial  
video (CANADA)

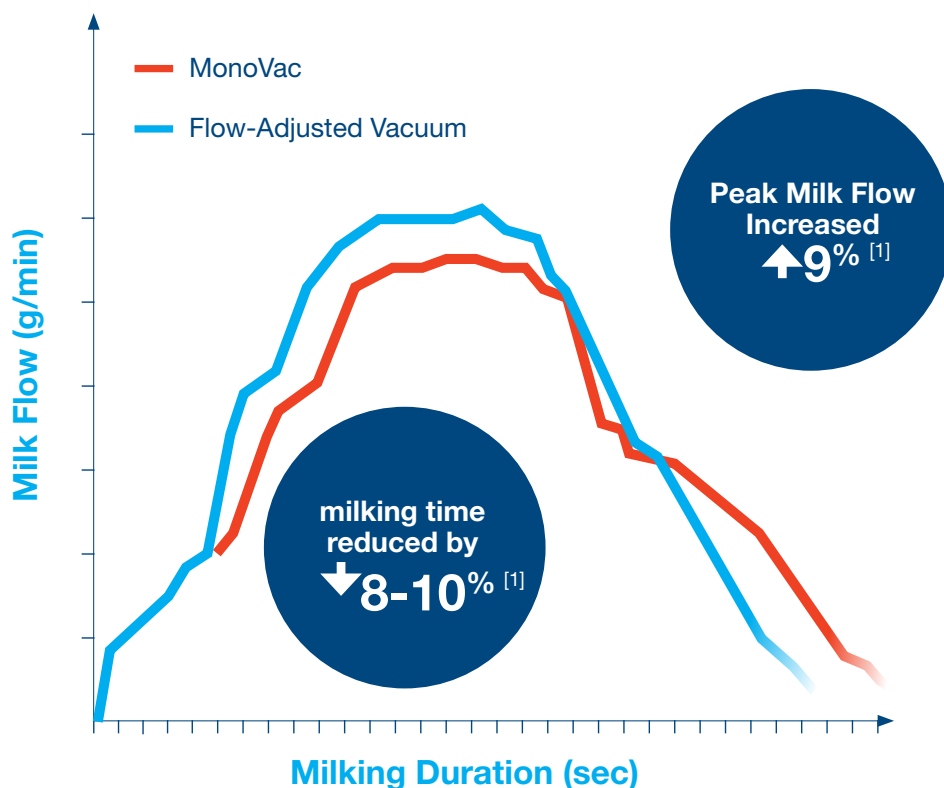
\*compared to MonoVac after 6 months of change.  
Dairy producer testimonials reflect their real-life experience using DeLaval products. Results in testimonials have not been independently verified and DeLaval does not claim that results are typical. Testimonials do not constitute warranties or guarantees of performance. MVP Dairy LLC's PR3100 Rotary shown  
Results may not be typical; information does not constitute warranty/guarantee of service or performance.



over  
**5%**

reduction in  
milking time with no  
negative impact on  
milk yield\*

DeLaval Flow-Responsive™ Milking speeds up your milk-extraction by lifting the vacuum level after stimulation is complete and high milk flow is available, and then reducing levels again once high flow has ended. This ability to adjust vacuum levels helps you to avoid the inevitable trade-off between udder health and productivity that is created by a fixed vacuum level that is either too high or not high enough at any one point in the milking process.



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In the Start-Phase, after proper stimulation, system vacuum levels are 42 kPa (12.5" Hg), pulsation ratio 65/35 with pulsation rate 60 ppm. When the flow reaches >2kg/min (>4.4 lbs/min), the Main-Phase is initiated and system vacuum levels are increased to 47-49 kPa (14-14.5" Hg), pulsation ratio 65/35 or 70/30 with pulsation rate of 60 ppm.

# DeLaval Teat Spray Robot TSR2

**Automate the benefits of consistent pre and post spray application while maintaining cow health, reducing labor and improving cash flow.**

## TSR2-Approved Hygiene Solutions

Effective pre and post teat dips are essential to any dairy operation. We offer DeLaval hygiene solutions specifically tested and validated for optimal performance with DeLaval TSR2.

## Safe Operation

Safety is key to any operation but especially unmanned devices. TSR2 has been designed to keep employees and cows safe with a custom safety fence and gate, safety sensors that automatically shut down the unit when triggered, and multiple emergency stop buttons.

## New Gantry-Mounted Design

The TSR2 features a gantry mounted design which places 90% of the robot above the cow's udder. This helps keep the robot cleaner and dryer, and a splash shield further protects the TSR2 from debris. All of this contributes to lower running costs with less wear and tear.

## Efficient Consumption

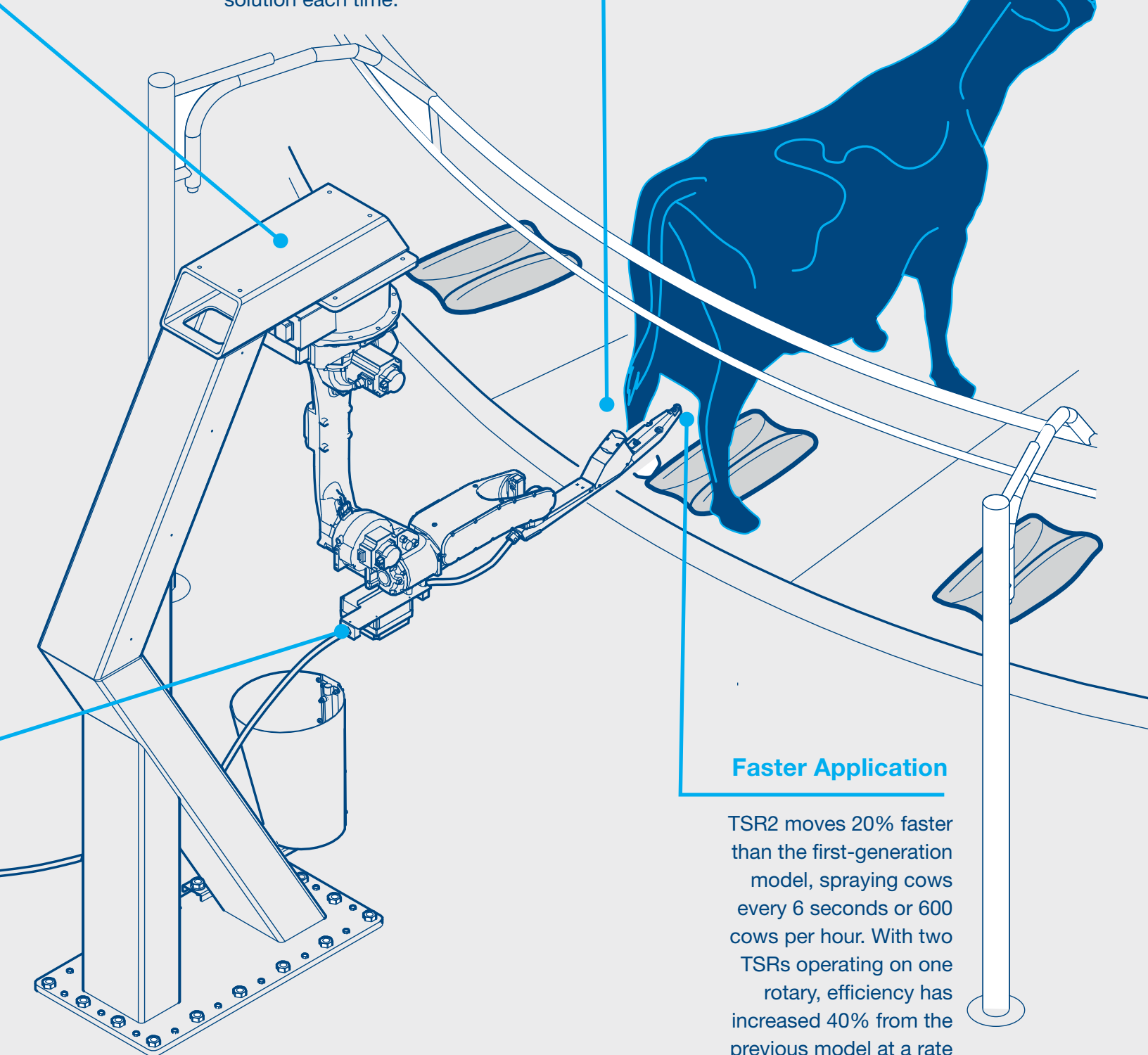
The accuracy of the DeLaval InSight camera means TSR2 sprays cows efficiently and helps to optimize efficacy by spraying teats and not the cow's udder, leg or tail. Depending on the speed of the rotary and the type of dip, TSR2 uses 3-5 gallons (11-19L) of dip per 1,000 cows for optimal teat coverage, making it one of the most efficient hygiene robots on the market.





## DeLaval InSight™ Camera

With the same camera technology on our VMS V300 milking robot, DeLaval InSight™ identifies the individual cow and its teat positioning to help ensure correct application of the teat spray solution each time.



## Faster Application

TSR2 moves 20% faster than the first-generation model, spraying cows every 6 seconds or 600 cows per hour. With two TSRs operating on one rotary, efficiency has increased 40% from the previous model at a rate of 3.6 seconds per cow or 1,000 cows per hour.

Data collected on test and pilot farms. Results may vary and are not guaranteed.

\*Based on estimated salary and employee costs for 3 full time employees.

\*\*When using a dual TSR configuration

Cost savings is not guaranteed. Results may vary and are not warranted or guaranteed.


A man wearing a blue DeLaval cap and a blue polo shirt with white accents is standing in a farm aisle, talking to a woman. The woman is wearing a green t-shirt and a grey cap. In the background, there are several cows in stalls and a large white silo on the left. The scene is brightly lit, suggesting daytime.

## DeLaval Performance Plans

**Because  
performance  
is everything**

Every DeLaval Rotary comes with a DeLaval Performance Plan, this means that we are all very clear about what you demand, and what we will deliver. From servicing and maintenance to remote monitoring of your vacuum levels - if it will help you perform, we will find a way to deliver it - because we are your performance partners.





**It's about our  
commitment to  
you, and to your  
performance.**

**It all starts with the best  
start-up training in the  
business and then  
you can include  
everything from:**

- Scheduled servicing and maintenance
- Performance coaching
- Liners and tubes
- Teat dips, detergents and sprays
- Vacuum adjustments
- Performance reporting and management tools from DeLaval Plus



DeLaval Advisory

# We take a 360° view of your farm

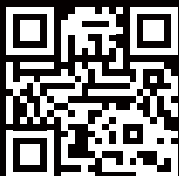
DeLaval are proud to partner with dairy farmers all over the world, from the very largest dairy farms to some of the very smallest, and everything in between. We still commercially operate the family farm that Gustaf DeLaval bought in 1894 which is where our head office is.

This means dairy is in our blood, is what we do – in fact its all we do – which is why we have built up a huge amount of experience and expertise. When you choose DeLaval, you get access to all that knowledge and practical advice. Our team of advisors can help out with advice before, during and long after installation.





Virtual  
360°



## Facility Planning & Design

Our team of facility planning and design professionals with over 30 years combined experience in the agricultural sector can help you build the dairy of your dreams.

**Architectural Services:** site planning, conceptual design, drafting, technical drawings, construction administration, cost estimation and project management

**Media Creation:** 3D renderings, animations, post occupancy evaluations, 360° interactive virtual tours, drone photography and videos

## Farm Management Solutions

This highly skilled team specializes in helping producers optimize the suite of DelPro™ products and apps. They also advise on reproduction, calf and heifer management, housing, and nutrition.

- Work with customers milking robotically (VMS™) and conventionally
- Assist producers in achieving their reproductive and production goals
- Manage the Robotic Farming Academy for users and advisors of DeLaval robotic and precision management technology

## Milk Quality and Milking Performance

Our team works diligently with dairy farmers to help them reach their milk quality goals and achieve top-notch milking performance.

- Assists farms with conventional and robotic milking systems
- Specializes in troubleshooting complex milk quality issues
- Offers milking performance analyses and milk-ability assessments
- Conducts customer trainings and audits

**Let us know how we can help!**  
**Contact us**

visit us at [www.delaval.com](http://www.delaval.com)

We live milk



[www.delaval.com](http://www.delaval.com)

DeLaval does not claim that the results mentioned in this brochure 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.

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