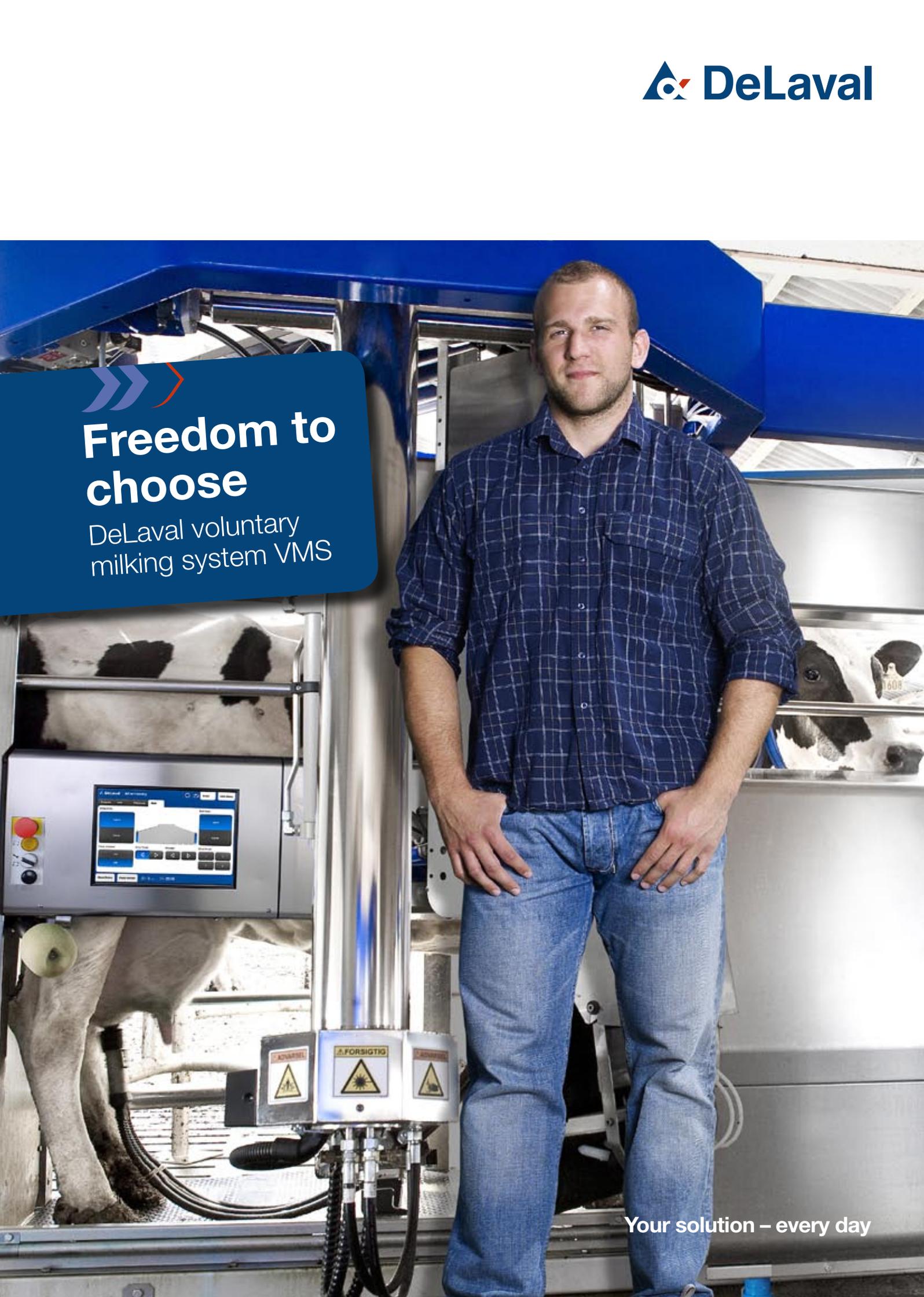




Freedom to choose

DeLaval voluntary milking system VMS

A man in a blue plaid shirt and jeans stands in a modern milking parlor. The parlor is equipped with DeLaval VMS milking machines. A cow is visible in the background, and another cow's legs are visible in the foreground. The machine has a control panel with a screen and several warning labels.

Your solution – every day

**The most
advanced
robotic arm**





A hydraulic robot arm helps set DeLaval VMS apart from other automatic milking systems. Its unique design allows more cows to be milked.

Fast, flexible, reliable

This fast yet gentle arm is flexible enough to attach teats at 45° angles. You can milk even more cows by taking advantage of the various attachment strategies. The arm, which is hydraulically activated, provides extended reliability and reduces service requirements when compared to pneumatic systems.

The high performance teat visualisation system has an optical camera coupled with dual lasers to help ensure fast and accurate teat localisation for quicker and more dependable attachment rates.

DeLaval VMS truly sees the teats. To further enhance your comfort and save time, Auto-Teach gives DeLaval VMS the ability to automatically find the teats instead of you having to use the joy stick to do that.

The most advanced robotic arm

- More cows compatible with robotic milking
- Hydraulic power means low service requirements
- Optical camera and two lasers 'see' the teats
- Fast and gentle with nothing under the cow during milking
- Auto-Teach finds the teat automatically
- Manual attachment is possible



Proven hydraulic reliability

No compromise in milking hygiene



Cleanliness is vital to the success of any automated milking system. Once again, DeLaval VMS leads the field in hygienic design.

Automated approach to hygiene

The teat preparation process is recognized as one of DeLaval VMS most attractive features. Each teat is individually cleaned with warm water and air, stimulated, pre-milked and dried before milking. Only a few seconds are needed for optimum teat sanitation which results in high milk quality and better milking capacity. The teat preparation cup has its own separate line so no dirty pre-milk ever makes contact with the main milk line.

Several features are fully automated to keep the system running around the clock in the most hygienic condition. Programmable automatic floor cleaning allows your cows to stand on a clean surface at all times. All the cups are rinsed inside and out between each cow. The cups then face down so they can drain and stay free of debris.

DeLaval VMS detects any fall-offs and initiates retraction and rinsing of the teat cup before reattachment. Each teat is automatically disinfected after milking.

Gain better control over your milking hygiene with DeLaval VMS

- Dedicated teat preparation cup
- Teats are clean and dry before milking
- Integrated splashguard
- Automatic floor cleaning
- All cups rinsed up-side down between cows
- Teat cup rinsed before re-attachment
- Selectable spray patterns

Teat spray after milking



You have full control



For simplicity, speed and convenience, you have control over the entire milking process from a touch screen.

Access to everything

A touch screen puts you in complete control during milking. You have access to all the monitoring information you need such as cow ID, quarter flow rate, volume and cleaning status of the milking process. You can pilot the DeLaval online cell counter OCC during milking to view the SCC from the touch screen. DeLaval VMS features true quarter milking with four optical milk meters monitoring milk yields, flow rates, time, conductivity and blood levels.

possibility to attach manually. The stall has a large stainless steel floor to accommodate the growing size of cows. For safety and comfort, there is no bulky equipment under the cow during milking and she rests on a slip resistant rubber mat.

Pre-mounted support modules

The hydraulic power unit is mounted above the arm to maximize efficiency and reduce the length of the lines. The station power box is also integrated to facilitate installation.

Fast, automatic attachment

The fast and gentle hydraulic multi-purpose robotic arm prepares the teats before milking (including optional pre-spray), attaches the teat cups, re-attaches if needed, aligns the milk tube and sprays the teats after milking.

Everything considered

The stainless steel manger is self draining and easy to keep clean. Feed is sprinkle fed during milking to keep the cow calm. You can even stop the feed dispensing before the end of milking so the cow can quickly leave the station. Everything has been considered to maximize ease of use and productivity.

Built to last

The robot arm, gates and robot frame are electro-polished for easy cleaning. The rest of the station is made of either brushed or painted stainless steel. We minimize the use of plastics to maximize the value of your investment over time.

Cow safety and comfort

The station's open design allows easy access to the cow and the

Cow ID	Start	Stop	Status	Current location	Time to location	Time
5903	09:06	09:06	Area Feed Tn	18:00		
0440	10:00	10:00	Waiting area	00:00		
0711	10:02	10:02	Area Feed Tn	00:00		
0801	04	10:03	Area Feed Tn	12:25		
0710	05:04	05:05	Area Feed Tn	00:25		
1084	07	09:02	02:02	Area Feed Tn	00:00	
0010	07:00	07:00	Area Feed Tn	00:00		
0062	08:00	08:00	Area Feed Tn	00:00		
0777	12	08:00	01:00	Area Feed Tn	00:00	
0022	08	07:00	02:00	Waiting area	00:00	
0011	09	07:11	00:01	Area Feed Tn	07:10	
0012	04:00	00:04	00:04	00:04		
0000	09:00	00:10	00:10	Area Feed Tn	00:10	
0017	10:00	00:00	00:00	Area Feed Tn	00:00	
0104	09:00	11:00	00:00	Waiting area	00:00	
0112	02:17	00:10	00:00	Area Feed Tn	10:10	
0113	09:00	00:00	Area Feed Tn	07:00		
0104	03:00	00:10	00:10	Area Feed Tn	00:00	
0127	03:11	00:01	00:01	Area Feed Tn	00:01	
0012	01:00	00:01	00:01	Area Feed Tn	01:00	

Cow queue status available from the touch screen

Steam backflush

Milk separation

DeLaval online cell counter OCC

Value adding options for your DeLaval VMS



Every dairy operation will differ slightly from the next – so DeLaval offers a range of options to customize your VMS system to your precise requirements.

Steam backflush

The DeLaval steam backflush option for VMS provides added protection against mastitis. This steam unit, specifically designed to work with VMS, will sanitise the teat preparation cup and the four teat cups between each milking in order to reduce the potential of cross-contamination from one cow to another.

Milk separation

Now you can automatically divert colostrum milk, bad milk with blood or milk with a high SCC to one of four different locations. The milk separation unit can be positioned in the most appropriate area for improving your working conditions.

DeLaval online cell counter OCC

This is the first true automatic somatic cell counter available for voluntary milking systems. Gain access to an unequalled level of knowledge and control over your herd by proactively monitoring the SCC level of every cow at every milking.

Flow controlled cooling

The tank is in direct bus-communication with DeLaval VMS to adjust refrigeration based on the quantity of milk delivered, regardless of time and flow rate variations. This is a patented, cost efficient solution specially adapted to automatic milking conditions.

DeLaval smart selection gate SSG

Gain full control over your cow traffic while reducing time spent fetching cows. DeLaval SSG helps you get more milkings per cow per day and more regular milking intervals, with higher feed intake and reduced labour input.

Remote control

The remote control software allows you to monitor and control your DeLaval VMS without physically being at the station. Now you can connect from anywhere within your own network or even wirelessly for more independence, less disturbance and better control.

Flow controlled cooling



DeLaval smart selection gate SSG



Herd Navigator™



Automatic milk sampler

The automatic milk sampler offers advanced functions like individual cow sampling or accumulated sampling. The sampler is conveniently cleaned when DeLaval VMS performs a full system cleaning.

Herd management

DeLaval VMS and DelPro™ dairy management automate daily tasks to save even more time. And with the help of Herd Navigator™, you gain a rapid snapshot of the health of every individual animal in the herd.

DeLaval forage shuttle FS1600

This highly advanced automated forage wagon enables efficient and frequent delivery of well-mixed quality roughage/TMR. Forage distribution can be controlled on the FS1600 itself, or by the DelPro™ herd management system. Program in feed times, feed quantities, and the groups of cows to be fed, and DeLaval FS1600 takes care of the rest. You just have to ensure that the stationary mixer is loaded regularly, to keep the FS1600 supplied with the forage mix. FS1600 operates on both straight and curved rails.

Twin milk filter

Continuing VMS innovation, the smart new DeLaval twin filter system protects milk quality while giving you flexibility in timing your filter changes. With twin filter socks on twin pipes, the VMS system automatically switches to the clean filter at the correct time between pre rinse and wash. The indicator alerts you to fit a new filter – which you do when it suits you.



Automatic milk sampler



DeLaval forage shuttle FS1600



Twin milk filter

Manure plate

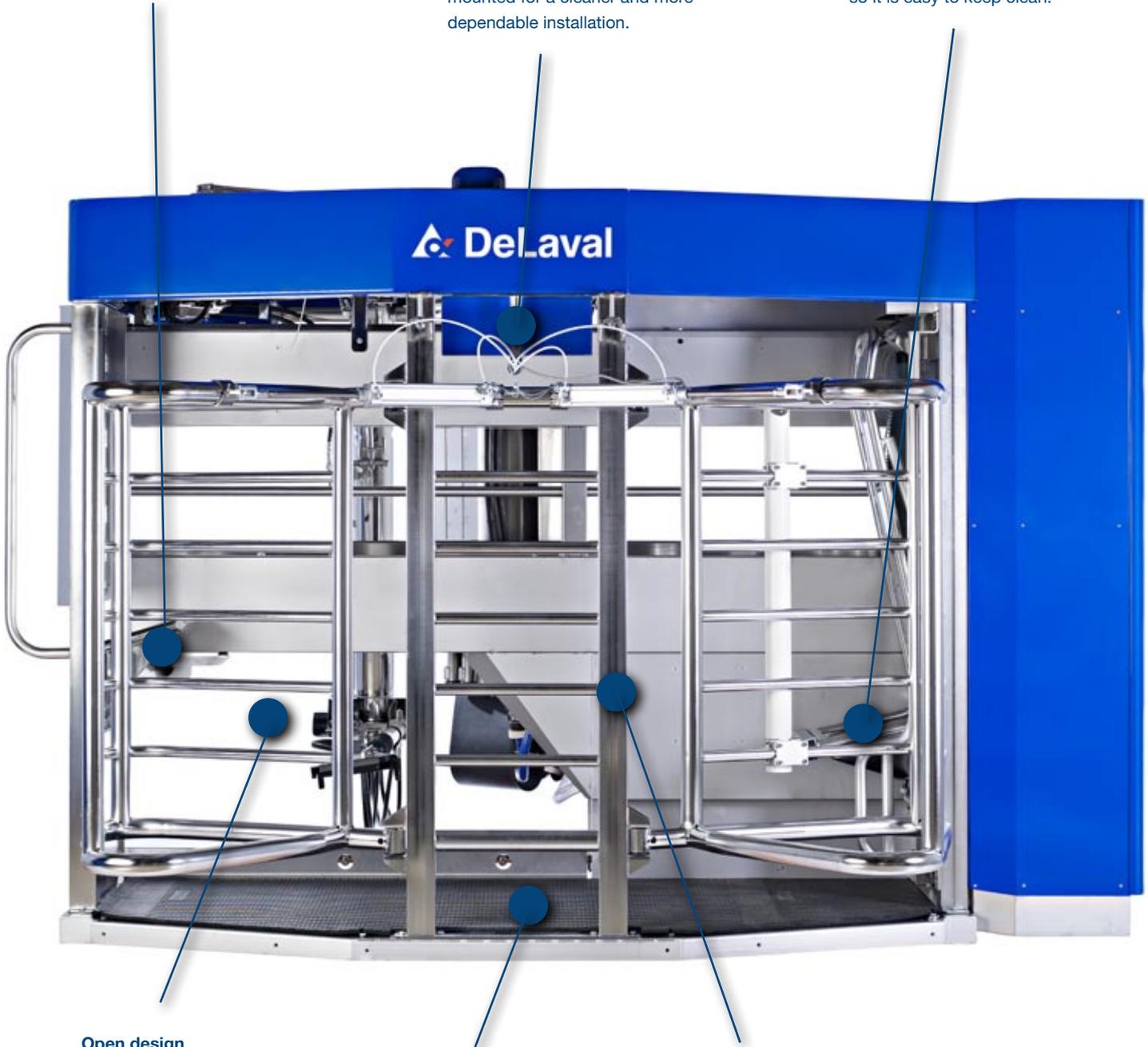
Integrated splashguard automatically backs up to divert animal waste away from the stall and milking area.

Pre-mounted support modules

Key support modules are pre-mounted for a cleaner and more dependable installation.

Easy to clean

The stainless steel manger is ergonomic and self draining, so it is easy to keep clean.



Open design

The station's open design allows easy access to the cow and the possibility to attach manually.

Automatic floor cleaning

Programmable automatic floor cleaning allows your cows to stand on a clean surface at all times.

Built to last

The entire VMS system is made from materials that are easy to clean and protect the value of your investment.



True quarter milking
Four optical milk meters monitor milk yields, flow rates, time, conductivity and blood levels.

Touch screen
Gives complete control during milking. Provides access to all cow monitoring information.

Online cell counter OCC (option)
Provides you with a true somatic cell count for every cow at every milking.

Steam backflush (option)
The DeLaval steam backflush option for VMS provides added protection against mastitis.

Advanced robotic arm
Fast, flexible and reliable robotic milking arm handles the entire milking process.

Country 1

Address line 1
 Address line 2
 Address line 3
 Tel XX XXX XX XX
 Fax XX XXX XX XX
 e-mail address
 web address

Country 2

Address line 1
 Address line 2
 Address line 3
 Tel XX XXX XX XX
 Fax XX XXX XX XX
 e-mail address
 web address

Your DeLaval dealer



DeLaval VMS technical specifications
VMS size: L 335 x W 255 x H 228 cm
Weight: 950 kg
VMS room size incl. inlet and outlet: L 450 x W 400 x H 275 cm
Food quality 25 mm stainless steel milk lines
VMS feed station: 1 feed standard. 2nd feed optional
Built-in control touch screen
Standard with air compressor
Standard, pre-installed, heavy duty and low service hydraulic pump
Low pressure hydraulic system for safety and longer service life
Standard pre-installed power box with overload protection
Standard with pre-installed cleaning unit
Standard with PC, flat screen, UPS
Software environment: Linux and Windows
Cow traffic programs: free, semi-free, pre-selection, milk first, feed first
DeLaval VMS server can be connected to a local area or wireless network
Alarm signals sent via SMS or voice alert messages (optional siren or flashing alarm)
Authorized DeLaval technicians can remotely monitor and control the system via internet



DeLaval voluntary milking system VMS supports DeLaval's commitment to Sustainable Dairy Farming: solutions that meet environmental challenges, respect animal welfare and benefit customers and society.

Your DeLaval dealer: