



Lely Consumables and Wear Parts
Product Catalog



Find out more on lely.com

“I truly believe the Lely robots will provide us with a cow environment that’s going to foster longer-living, more productive cows that are **happier and healthier.**”

David Trimmer
Athens, WI



We share **the care**

It is all about adequate attention and care. Through optimal care for your Lely equipment, cows and milk, you not only increase profitability, but also enjoy your work. Lely supports you with a comprehensive customized consumables and original wear parts portfolio.

We offer complete solutions that consist of more than just innovative machines. Lely’s unmatched technical and farm management support gives you the know-how, and peace of mind, to get the most from your robots for years to come.

Lely delivers practically everything you need on a daily basis. Together, we keep the cows and the machines running smoothly, while working to fill the tank with quality milk. We partner with you on the dairy farm to help make operations sustainable, enjoyable and profitable.

See Lely’s complete portfolio of Milk Care, Cow Care and Machine Care products.

Optimal care for **optimum results**

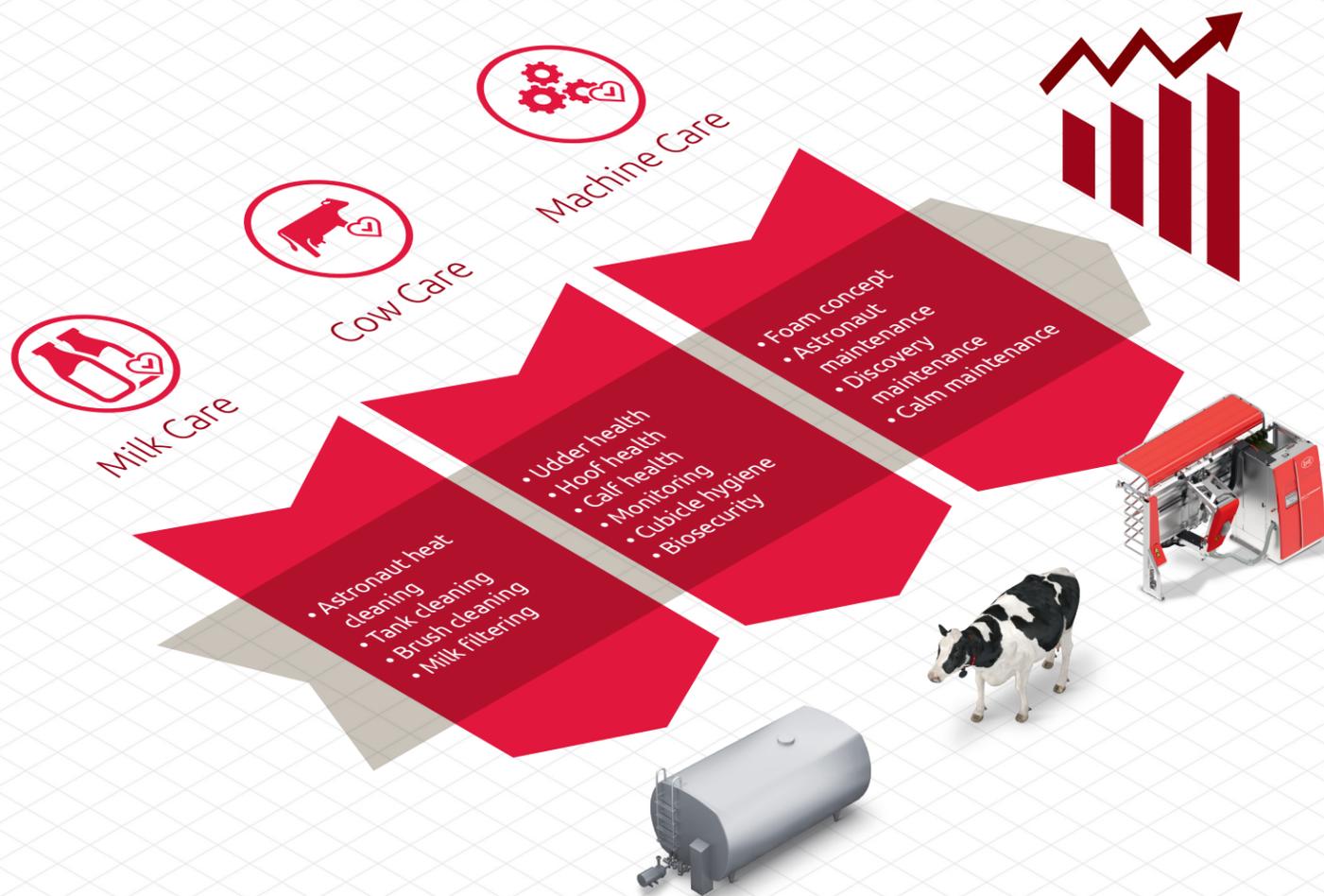


Table of contents



1. Milk Care

A full tank of quality milk

1.1 Astronaut heat cleaning	7
1.2 Tank cleaning	8
1.3 Pretreatment brush cleaning	10



2. Cow Care

Healthy cows for a healthy business

2.1 Udder health	12
2.2 Monitoring	16
2.3 Calf health	18
2.4 Calm maintenance	18



3. Machine Care

Maximum uptime with your Lely robot

3.1 Foam concept	20
3.2 Liners and shells	22
3.3 Astronaut maintenance	24

A full tank of quality milk

Milk that leaves the udder cleanly also needs to enter the tank cleanly. In order for this to happen, there needs to be hygienic cleaning throughout every step of the process. Lely supports you with its fully automated cleaning programs and with consumables specially developed for the Lely milking robot. They help to provide optimal cleaning results and have been designed for safe use with the robot.

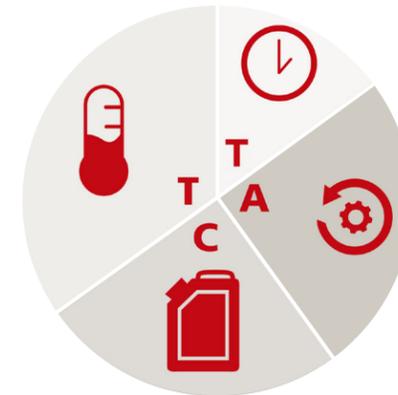


1. Milk Care



1.1 Lely Astronaut heat cleaning

Internal hygiene is essential for producing high-quality milk and to lengthen the life of your Lely Astronaut milking robot. The milking robot has a unique heat-cleaning system for fast and effective cleaning. Together with the Lely Astri cleaning range, the hygiene of your robot and your milking process is ensured. The Lely Astri range complies with food-safety regulations and the required specifications for the Lely Astronaut.



The TACT principle includes four aspects that must be in balance for effective cleaning:

- T - Time:** Efficient cleaning processes, allowing more time to milk
- A - Action:** Whirling action by using the correct amount of air / cleaning fluid
- C - Chemical Concentration:** Specifically formulated for heat cleaning, the chemicals are concentrated for high cleaning capacity
- T - Temperature (85° C / 185° F at MQC):** By reaching these temperatures, it ensures optimal usage of water and Lely Astri products, while also shortening cleaning times and providing additional disinfection

Lely Astri LIN

Alkaline cleaner for the Lely Astronaut milking robot

- To be used in combination with Lely Astri CID
- Optimal cleaning properties for fat and protein residues
- Non-foaming chlorine free alkaline cleaner for the Lely Astronaut milking robot
- Powerful cleaning agent without harming the materials of the Lely Astronaut milking robot



Lely Astri CID

Acid cleaner for the Lely Astronaut milking robot

- To be used in combination with Lely Astri LIN
- Optimal cleaning properties for mineral and other inorganic deposits
- Non-foaming acid cleaner for the Lely Astronaut milking robot
- Powerful cleaning agent without harming the materials of the Lely Astronaut milking robot

Oxonia Active™

Oxonia Active is a concentrated, EPA registered peroxyacetic acid, antimicrobial agent with broad spectrum activity for use in the Lely Astronaut post washing. It quickly penetrates biofilms and kills bacteria like Pseudomonas aeruginosa and Staphylococcus aureus living within the biofilm.

- To be used after the wash cycle and prior to milking
- Optimal cleaning properties for mineral residues between milkings
- Non-foaming acid sanitizer designed for the Lely Astronaut milking robot
- Helps protect the Lely Astronaut milking robot as it is non-corrosive to stainless steel and aluminum when used at recommended concentrations



1.2 Tank cleaning

Lely offers several solutions for cleaning the milk tank. Depending on the technical specifications of the milking installation, dairy farmers have several options. Considerations include: the environment, organic livestock farming, the technical possibilities and the requirements imposed by local authorities/your milk processor.

Lely Frigus LIN Alkaline chlorinated detergent for the milk tank

- To be used in combination with Lely Frigus CID
- Chlorinated alkaline cleaner and disinfecting agent for the milk tank
- Effective removal and dispersion of milk residues (fat and protein) in circulation cleaning of the milk tank



Lely Frigus CID Acid detergent the milk tank

- To be used in combination with Lely Frigus LIN
- Acid cleaner for effective removal of mineral deposits
- Effective removal of multiple mineral deposits, such as lime scale, iron deposits and milkstone in circulation cleaning of the milk tank

Alkaline detergent

	Lely Astri LIN	Lely Frigus LIN
Disinfection component (chlorine) present	No	Yes
Cleaning power with organic contaminants (milk residue, fat, protein)	++	++
Cleaning temperature	70 - 85° C (170 - 185° F)	50 - 70° C (120 - 160° F)
Disinfectant effect	+ in combination with temperature	+++
Organic livestock farming	Not always allowed*	Yes
Changeover cleaning (alkaline alternated with acidic)	Alternate (alkaline acidic-alkaline acidic)	Periodical (alkaline-alkaline-acidic-alkaline)
Stabilization of water hardness	+++	+

*Criteria for organic livestock farming can differ per country.

Acid detergent

	Lely Astri CID	Lely Frigus CID
Cleaning component	Phosphoric/citric acid	Mixture of acids
Cleaning power with inorganic contamination (milkstone, lime, iron deposits)	+	+++
Cleaning power with organic contamination (milk residue, fat, protein)	++	+
Disinfectant effect	++ in combination with temperature	+

Optimizing each wash cycle, for temperature and chemical concentrations, **will help to promote better milk quality.**



1.3 Pretreatment brush cleaning

Optimal hygiene and cross-contamination should not be underestimated with regards to its effect on milk quality. The cleanliness of the pretreatment brushes on your Lely Astronaut milking robot plays a crucial role in this. Lely Astri L is a product that has been developed for fast and effective cleaning with no harmful effects on udder health.



Lely Astri L

Formulated liquid detergent for Lely Astronaut robot cleaning of pretreatment brushes

- Non-foaming cleaner for brush cleaning. Only to be used for the Lely milking robot
- Patented formulation
- Biological - degradable
- Chlorinated manual detergent

Test strips for Lely Astronaut Brush Cleaning

Test strips for Lely Astronaut brush cleaning solution can be used to provide an easy and quick indication whether the concentration of the brush cleaning product applied on the pretreatment brushes is sufficient. These test strips indicate the concentration of peracetic acid, which is the main active ingredient in Astri L.

- Quick and easy indication of concentration brush cleaning detergent
- No special storage requirements
- Direct measurement, no dilution required



Lely Astri BC

A germicidal non-iodine udder wash, with excellent detergency, for udder cleaning.

- Provides rapid broad-spectrum kill of bacteria
- Provides same kill effect as iodine according to A.O.A.C. germicidal tests
- Suitable for use as a brush cleaner in robotic milking units

Oxonia Active™

Oxonia Active is a concentrated, EPA registered peroxyacetic acid, antimicrobial agent with broad spectrum activity for use in the Lely Astronaut. It quickly penetrates biofilms and kills bacteria like *Pseudomonas aeruginosa* and *Staphylococcus aureus* living within the biofilm.

- Optimal cleaning properties for mineral residues between milkings
- Non-foaming acid sanitizer designed for the Lely Astronaut milking robot
- Helps protect the Lely Astronaut milking robot as it is non-corrosive to stainless steel and aluminum when used at recommended concentrations



Healthy cows for a healthy business

Udder health plays a huge role on every farm worldwide. The impact of mastitis can affect milk production, veterinary costs and the possibility of a reduced milk price if you exceed your SCC limits. By using the correct udder care products, ones that are perfectly attuned to your set-up and robot, we can help to prevent mastitic bacteria. Udder health, however, depends on many different factors. Your Farm Management Support Advisor will examine all aspects of your farm with you, including your herd's immunity, hygiene, climate, feed and milking patterns. Together, we will develop a plan of action.

2.1 Udder health

Udder health and milk quality are closely related. The use of adequate udder care products reduces the risk of various health related issues, such as an increase in somatic cell count or udder inflammation. By taking care of udder health, you ensure cows can use their energy efficiently for producing high-quality milk.



2. Cow Care

Lely Quaress Premo 55 0.5% iodine with 5% emollients

- Proven effective in substantially reducing the rate of IMI (intramammary infections) when used as a post-milking spray
- Dual emollient skin conditioning system helps avoid teat skin chapping, thereby reducing the risk of environmental pathogens colonizing the teat orifice area



Lely Quaress Premo 110 1% iodine with 10% emollients

- A 1% titratable iodine complex combined with multiple emollients.
- Aids in reducing the spread of organisms which may cause mastitis in dairy cattle
- Contains an emollient system which helps avoid teat skin chapping

Lely Quaress Ventus 0.5% peroxide with 5% emollients

- A unique, peroxide-based, post-milking teat spray for reducing new udder quarter infections caused by staphylococcus aureus
- Non-irritating formula, blended with lactic acid and emollients, to promote healthy teat condition



Cow Care Products	Spray	Active Ingredient	Log kill	Emollient Package
Lely Quaress Premo 55	X	0.5% Iodine	>5 Log*	5%
Lely Quaress Premo 110	X	1% Iodine	>5 Log*	10%
Lely Quaress Ventus	X	0.5% hydrogen peroxide	>5	5% glycerin

*Per Ecolab laboratory testing. Test results available upon request.



Lely Quaress Premo 55
0.5% iodine with 5% emollients

Lely Quaress Premo 55 is a 0.5% titratable iodine complex combined with a dual skin conditioning system.

- Proven effective in substantially reducing the rate of IMI (Intramammary infections) when used as a post-milking dip
- Dual emollient skin conditioning system helps avoid teat skin chapping, thereby reducing the risk of environmental pathogens colonizing the teat orifice area
- Low iodine formula reduces risk of contributing detectable iodine residues in the milk supply



Lely Quaress Premo Pure
Iodophor teat dip concentrate

Lely Quaress Premo Pure is a concentrate product that can generate a 0.25%, 0.5%, 0.75% or 1.0% ready-to-use iodophor teat dip. This is combined with a customized emollient package.

- Equally effective against both infectious mastitis organisms and environmental types, such as escherichia coli (E. coli)
- Non-irritating formula aids teat conditioning
- Concentrated formula for blending on farm
- Wetting agent allows product to cling to the teat
- One concentrate can generate four ready-to-use sprayable products, a 0.25% iodophor with 2.5% emollients, 0.5% with 5% emollients, 0.75% with 7.5% emollients or 1.0% iodophor with 10% emollients
- Versatile and cost-effective



Lely Quaress Premo 110
1% iodine with 10% emollients

Lely Quaress Premo 110 is a 1% titratable iodine complex combined with multiple emollients.

- Aids in reducing the spread of organisms which may cause mastitis in dairy cattle
- Contains an emollient system which helps avoid teat skin chapping



Lely Quaress Omnia Pure and Xtra
Fast, effective, affordable and iodine-free post-spray blended from concentrates and water.

Lely Quaress Omnia is a non-iodine teat spray that provides fast, broad-spectrum germicidal activity post milking.

- Formula kills more than 99.999% of mastitis-causing pathogens, including S. aureus, E. coli, pseudomonas, S. dysgalactiae, S. agalactiae, S. uberis, K. pneumoniae and E. aerogenes. "One-two punch" not only kills mastitis-causing pathogens but also conditions and exfoliates the skin. Formula includes organic acids
- High microbiocidal efficacy based on components with the highest natural background*
- Sustainable by reduced waste and reduced number of deliveries compared to ready-to-use teat spray products



Lely Quaress Ventus
0.5% peroxide with 8% emollients

Lely Quaress Ventus is a unique, peroxide-based teat spray that provides fast, broad spectrum germicidal activity after milking.

- Post-milking teat spray for reducing new udder quarter infections caused by staphylococcus aureus
- Ready-to-use solution
- Formula contains no iodine, to eliminate messy staining problems
- Low viscosity formula helps reduce wasteful, excessive consumption



Lely Quaress Barrier
Protective barrier udder care product

Lely Quaress Barrier is a ready-to-use udder care product sprayable in the Lely Astronaut milking robot. The product is based on povidone-iodine, and seals off the teat end from the environment with a protective layer. Ideal for use in dairy farms where challenging environmental conditions require well protected udders.

- 30-second kill effective across 99.999% of environmental and contagious dairy mastitis organisms*
- Long lasting protective film, easily removed by the Lely pretreatment brush
- Unique sprayable barrier product for the Lely Astronaut robotic milking system



Quaress Line	Spray	Ready to Use	Concentrate	Barrier	Active Ingredient	Log kill	Emollient
Premo 55	X	X			0.5% Iodine	>5 Log*	5%
Premo 110	X	X			1% Iodine	>5 Log*	10%
Ventus	X	X			0.5% Iodine	>5 Log*	8%
Barrier	X	X		X	1500 ppm Iodine PVP	>5 Log*	6%
Premo Pure	X		X		Customized Iodine	>5 Log*	Customized Package
Omnia Pure	X		X		Pelargonic acid	>5 Log*	Customized Package
Omnia Xtra	X		X		NA	>5 Log*	100%

*Per Ecolab laboratory testing. Test results available upon request.

*Per Ecolab laboratory testing. Test results available upon request.

2.2 Monitoring

Animal wellbeing and excellent milk quality are the keys to successful robotic milking. The more information we can retrieve from changes in the milk quality, the easier it is for dairy farmers to identify cows with potential problems. Early detection of udder health infections makes treatment of a cow at an early stage possible, thus preventing serious illnesses.

Lely Astri Cell Cell count measuring liquid

- Direct insight in the cell count
- Essential for Milk Quality Control-Cellcount (MQC-C)
- Gives an insight into udder health



The Milk Quality Control-Cellcount (MQC-C)

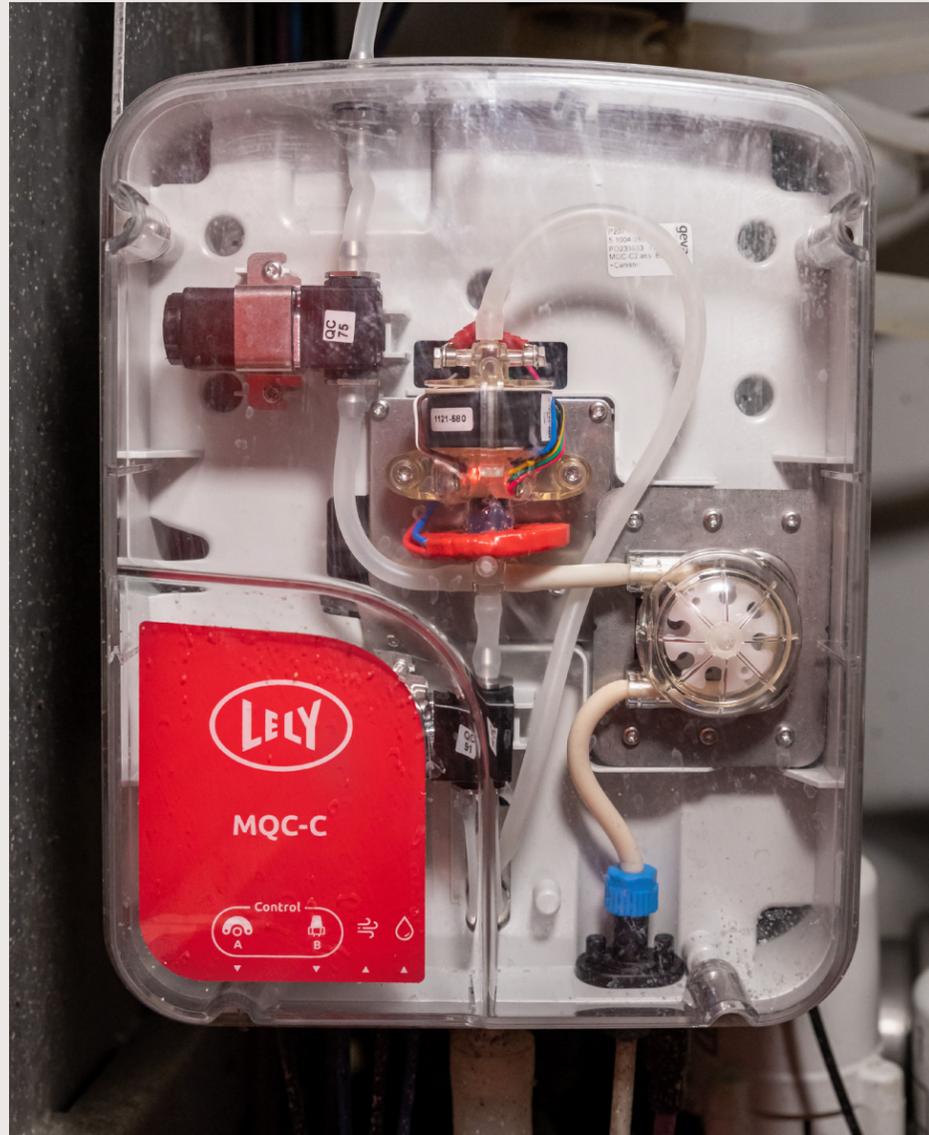
To reduce the cost of mastitis on your farm and improve cow health, it is important that you have the tools to detect an early bacterial infection. With the MQC-C (Milk Quality Control – Cellcount) you are able to take control. The MQC-C offers a unique, automated and smart way to keep track of the cell count of all your individual dairy cows.

The MQC-C determines a cell count indication by an accurate viscosity measurement of a milk sample mixed with reagent. These results are displayed in Horizon. When a cow has a high cell count indication, an automatic attention is generated in the Health Report. With this early attention, an efficient treatment can be performed, resulting in a successful recovery for your cows.

Farm results

Based on experience of Lely farmers worldwide

- Up to 6 days earlier attention
- Average of 1 day earlier treatment
- Faster recovery period
- More successful treatments per year



2.3 Calf health

Calf health deserves attention and time. The better the start a calf has, the greater the chance of having a healthy mature dairy cow. Thanks to thorough cleaning and rinsing by efficient means several times a day, the growth of bacteria is limited. A cleaner system ensures better milk quality and healthier calves.

Lely Frigus LIN

Alkaline chlorinated detergent for the calf feeder

- To be used in interval cleaning and supportive to Lely Calm CID
- Chlorinated alkaline detergent that can be used in cooler water temperatures
- Effective penetration and removal of fat, protein and sugar residues from feed
- High water hardness stabilization and sophisticated scale prevention provides powerful cleaning despite limited volumes



Lely Frigus CID

Acid detergent for the calf feeder

- To be used in interval cleaning and supportive to Lely Calm LIN
- Acid detergent for the Lely Calm
- Effective penetration and removal of scale, lime, iron deposits and milk stone
- Powerful dirt dispersing properties allow the product to clean with limited volumes

2.4 Lely Calm maintenance

For the daily maintenance of the Calm, Lely delivers all components. You can easily replace these yourself. Replacement of teats and tubes is recommended on a regular basis, before excessive wear and tear appears.



Lely Calm teat

Quality teat for the Lely Calm feeder

- Pack of 10
 - Specially designed for the Lely Calm
 - Replace once a month, depending on use and visible wear
- Also available as Lely Calm teat flex. This teat features a customizable tip that can be trimmed to your desired size for optimal comfort and fit.



Maximum uptime with your Lely robot

Whether you own a Lely Astronaut, Lely Juno, Lely Vector or a Lely Discovery, these robots deserve proper maintenance. Not only because they are most likely the hardest working 'employees' on your dairy farm, but more importantly, because they are a long-term investment and require the best care. We offer products to clean both the outside and inside of robots, preventing excessive wear and tear.

3.1 Foam concept

Hygiene plays an important role on a dairy farm. It influences animal health, the quality of the milk, and the operation and lifespan of the machines. Dirt of animal or vegetable origin – fats, sugar and protein – doesn't just go away by cleaning with water. It also depends on the surface the dirt adheres to. Therefore, Lely developed the Foam concept with safe detergents for a clean working environment.



3. Machine Care



Lely Robotics Foam Foam cleaner for Lely equipment

- Long cling with the dynamics of foam
- Suitable for wide range of areas on the dairy farm
- Well balanced between cleaning performance and material compatibility

Lely Foam unit

Compact low-pressure system for foam cleaners

- Easily installed
- Compact and light to use
- Use alkaline detergents and slightly acidic detergents based on phosphoric acid
- The Lely Foam unit is a low-pressure cleaner that only uses water pressure



3.2 Lely Liners and Shells

Essential link

Teat liners are the main interface between the Lely Astronaut and the cow. That is why Lely offers a broad range of different types of silicone teat liners and rubber variants.

Designed for the Astronaut

Lely teat liners are especially designed to work for both the cow and the milking robot. They are engineered from high quality materials and guarantee a consistent, controlled and harmonious interaction between your cows and the Astronaut.

Lely offers three types of silicone teat liners for three different focus areas: Classic, Scala and Comfort.

Classic

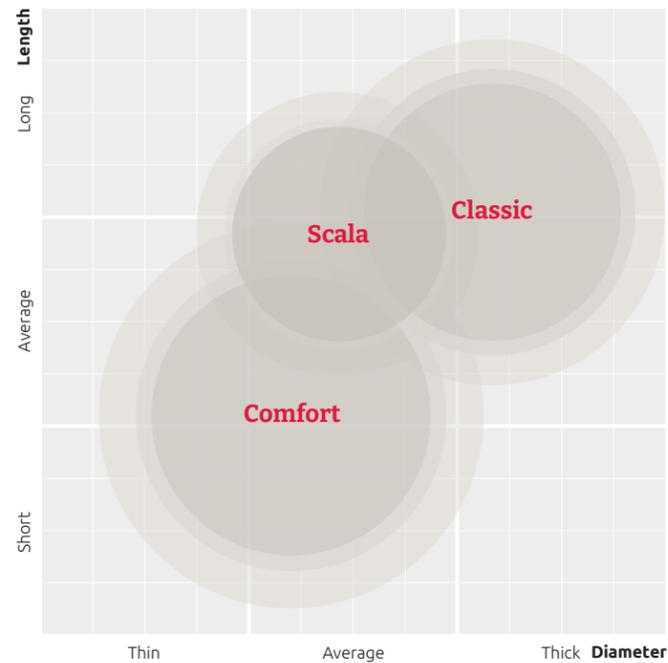
The Classic liner, proven over decades, is our oldest option and original teat liner. This liner fits with average to bigger sized teats.

Scala

The Scala liner, an all-round option, is our newest innovation. The flexible head design enables optimal milking performance for cows with average sized teats, while being able to provide good milking performance for varying range of teat dimensions within the herd.

Comfort

The Comfort liner, especially designed for shorter teats, creates a comfortable milking experience for cows with smaller sized teats. The benefits of the Comfort liner are specifically shown on cows with shorter teats.



Lely Astronaut teat liner portfolio

Teat liner types ¹	Material	Mouth piece opening	Rings	Head size	Shell type ³
Comfort 18	Silicone	18 mm	Yes	Low	B
Comfort 19	Silicone	19 mm	Yes	Low	B
Comfort 21	Silicone	21 mm	Yes	Low	B
Comfort 21 soft	Silicone	21 mm	No	Low	B
Scala 21	Silicone	21 mm	Yes	Flexible	D
Classic 21 soft	Silicone	21 mm	No	High	A
Classic 21	Silicone	21 mm	Yes	High	A
U.S. Rubber teat liner ²	Rubber U.S.	21 mm	No	Low	A
EU Rubber teat liner	Nitrile Rubber	21 mm	No	Low	C

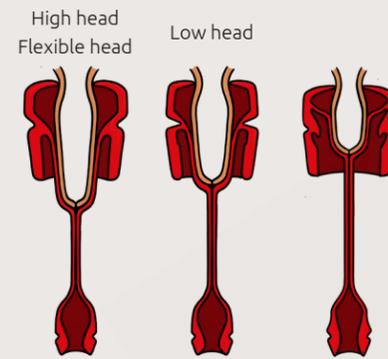
¹ Not for A2, ² US only, ³ Every teat liner type has its specific shell for optimal performance

Different sizes

Always the right fit for your herd and your goals

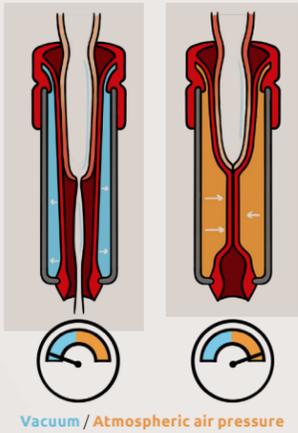
Head

Lely offers three distinct head designs tailored to different teat sizes. For longer teats (7.5 cm), a bigger head design is utilized, while shorter teats (> 4 cm) benefit from a smaller head design. Not only does the smaller head design effectively massage shorter teats, but its width also accommodates narrower positioned teats.



Barrel

The main function of the barrel is to massage the teat end. When the barrel closes, it relieves the teat from congestion, which results in more comfortable milking while helping to maintain milk speed. A larger diameter barrel is offered for bigger teat sizes, while a smaller barrel effectively massages smaller sized teats.



Complete milking

Accurate connection and controlled take-off for a predictable outcome

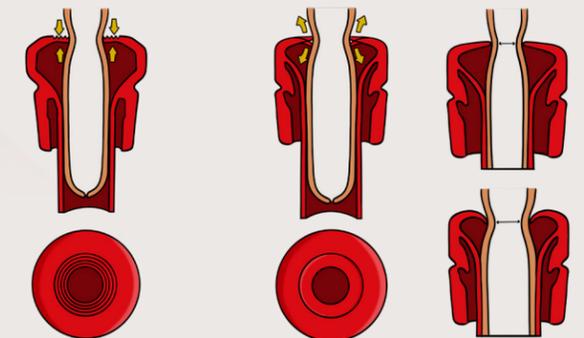
The lip without rings allows for better teat positioning into the teat liner and accommodates for variation in teat sizes. Rings on the lip reduce the risk of tearing.

Rings

- Limits risk of tearing of the lip
- Stiffer lip

No rings

- Fits better with more variation in teat diameter due to flexibility
- Lower risk of crawling of the liner
- Easier to attach



Longevity

Recommended liner change at every 10,000 milkings

Silicone, inherently food-safe, delivers consistent performance over its lifetime. Where rubber teat liners offer durability for up to 2,500 milkings, silicone teat liners can last up to 10,000 milkings.

Besides durability, there are some other advantages between silicone and rubber material:

	Silicone	Rubber
Controlled	++	+
Accurate	++	o
Complete	++	+
Caring	++	+
Speed	o	+

Lely teat shells

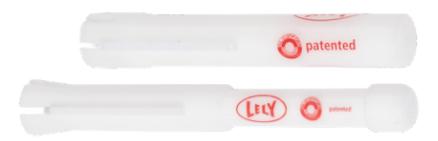
Special teat cups for all the Lely teat liners

- Ensure you use the correct teat shell with the selected Lely teat liner



A&B Shell Mounting Tool

- Use the mounting tool for the proper alignment of the Lely liners into the designated shell.



3.3 Lely Astronaut maintenance

For the daily maintenance of the milking robot, Lely delivers all components you can easily replace yourself. By this, we mean liners, brushes, tube filters, strings, milk tubes, twin tubes and tube protectors. All other parts for your Lely machines are available to be ordered separately, and as individual pieces for repairs or a big maintenance.



Lely TDS Clean Lens cleaner

- Cleans the Lely TDS lens quickly and without streaks
- A clean lens for improved connection attempts of the teat cups for efficient milking
- Scratch resistant

Lely Vacuum Pump Clean Cleaning detergent for the vacuum pump

- Cleans the Astronaut vacuum pump automatically
- Safe for the robot
- Ensures a long service life for the vacuum pump



Lely Astronaut pretreatment brush For hygiene and stimulation

- Soft for the udder and teats
- Optimal cleaning
- Optimal stimulation for milk let down
- Disinfected after every milking

Lely Astronaut cord Retracting the milk cup to the mothership

- Connects the milk cups to the robot arm
- Easy to use
- Replacing them in time prevents unexpected malfunctions



Lely Astronaut Chain Retracting the milk cup to the mothership

- Offer durability for alternative bedding materials
- Provided at an ideal length for your robot



Lely Astronaut twin tubes

- Twin tubes for the Astronaut A3, A4 and A5 milking robots
- Twin tubes are made of premium silicone
- Designed specifically for Lely Astronaut milking performance with durability top of mind



Lely Astronaut twin tube cover Protective covers

- Twin tube covers for the Astronaut A3, A4 and A5 milking robots
- Protects the twin tubes against getting entangled and damaged
- Comprehensive protection for a longer lifespan

Lely Silicone 6-line milk tube

- Milk tubes transport the milk of your cows
- Tubes are made of premium silicone materials with a smooth surface
- Less susceptible to wear



Lely Astronaut milk filters

- Filtration for all sorts of dirt
- Available in different sizes and filtration density

Lely filter dispenser

- Hygienically store milk filters



Lely Consumable box Composite box for the most relevant wearing parts

Contains: 24 silicone teat liners (6 sets), 500 tube filters (120 g), 4 cup cords (3 m), 4 brushes (2 sets), 1 set of 4 silicone twin hoses.



Contact your local **Lely Center**
for more information

The way to dairy.™

The information given in this publication is provided for information purposes only and does not constitute an offer for sale. Certain products may not be available in some specific countries and supplied products may differ from those illustrated. No part of this publication may be copied or published by means of printing, photocopying, microfilm or any other process whatsoever without prior permission in writing by Lely Holding B.V. Although the contents of this publication have been compiled with the greatest possible care, Lely cannot accept liability for any damage that might arise from errors or omissions in this publication.

For more information on the right to exclusive use please refer to our trademark notice on www.lely.com

Copyright © 2025 Lely Holding B.V.. All rights reserved. LELY_7006_0825



www.lely.com