

Harmony®

An ergonomic cluster for easier milking

Take the weight off

Harmony® is a cluster that is specially designed to make milking easier. The light teat-cups and high quality materials give you an ideal weight, without sacrificing the cluster's durability. Weighing 1 kg less than conventional clusters, Harmony® reduces the load on the teats and lowers the risk of liner slip and cluster fall-off.

Fast and comfortable milking

Due to less load on the milker between and during cluster attachment, the milker can work faster. Together with a DeLaval service arm, Harmony® can reduce the static workload and gives the

milker more time to recover. Where conventional clusters often leave you with tired and tense muscles, Harmony® reduces the strain and leaves the milker with energy left after milking.



DeLaval claw TF360

DeLaval claw TF360 with unique design

This design provides high flow capacity and a stable vacuum level. This means optimal conditions for good udder health and improved milk quality.

Design patent

The unique design of the centre pipe bulb is a patented feature and ensures a smooth flow of milk.

Gentle milking

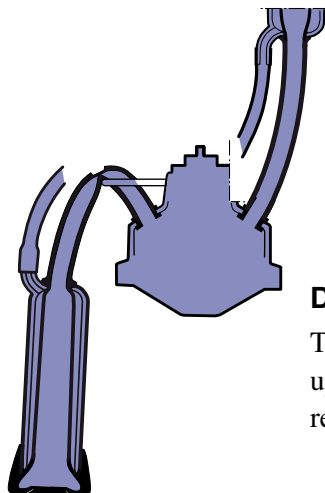
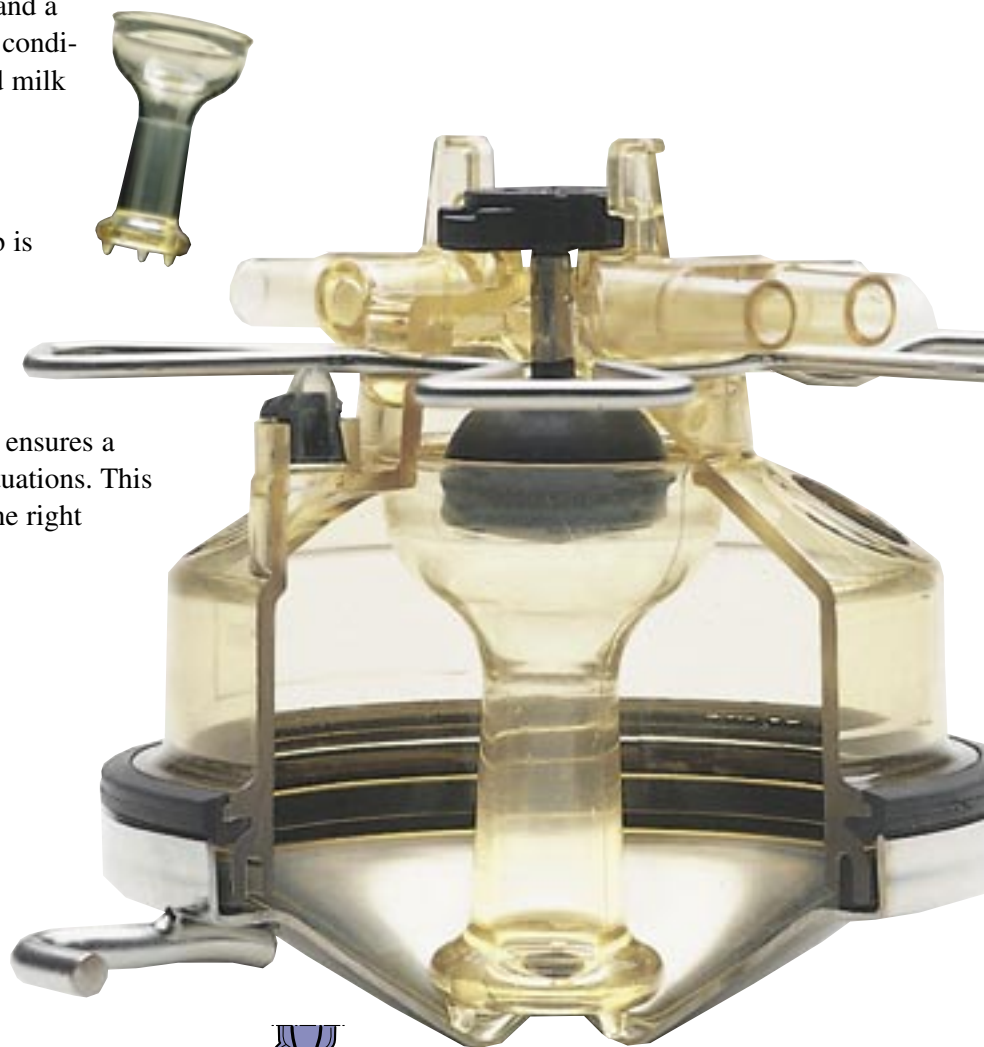
With large volume, DeLaval claw TF360 ensures a stable vacuum supply by preventing fluctuations. This means gentle treatment of the teats and the right conditions for good animal health.

Top flow principle

The incoming milk is evenly distributed over the claw base and is extracted through the specially formed centre pipe into the milk tube. This means less air in the milk and improved milk quality.

Liner shut-off

DeLaval claw TF360 allows for efficient liner shut-off as only the minimum of air is let in during handling.



Direct-to-law liners

The liners are attached directly to the upper part of the claw, with no restrictions from milk inlet nipples.

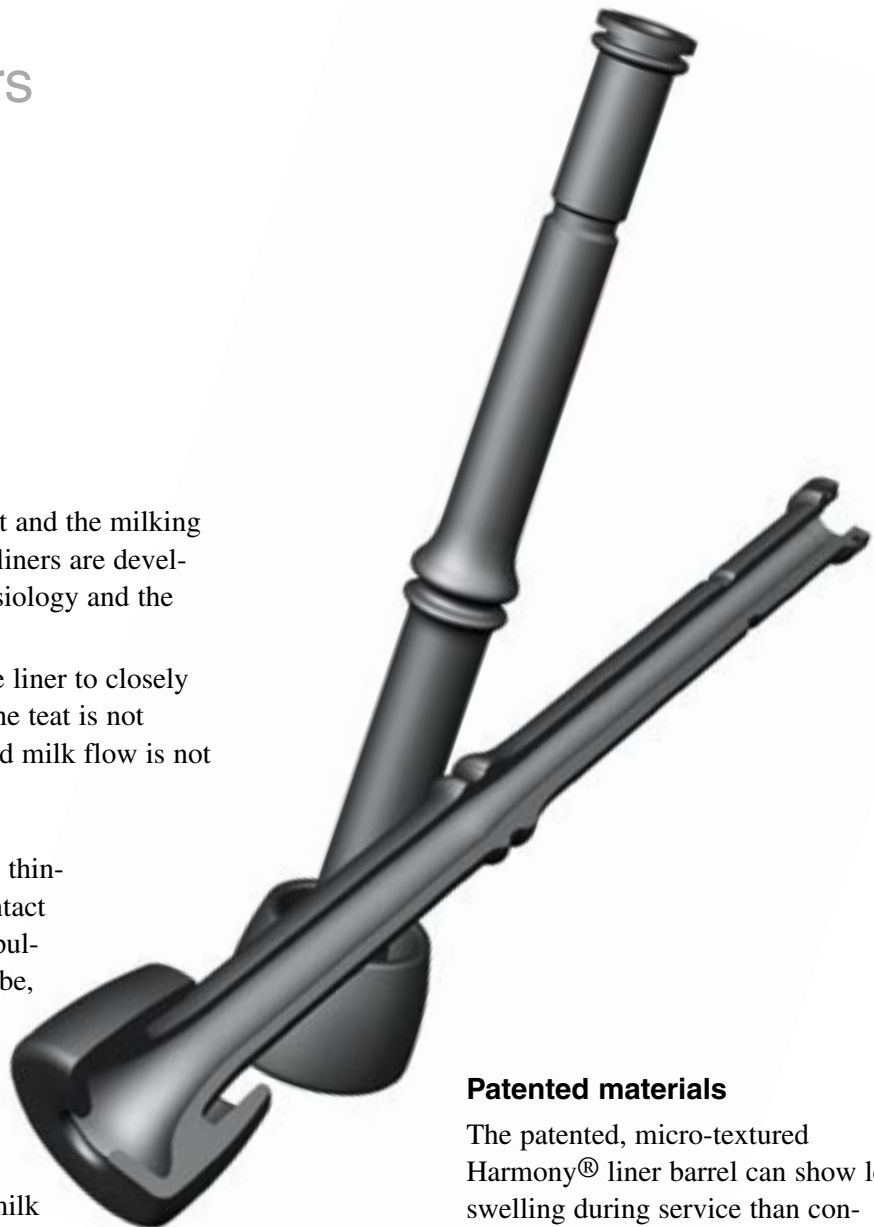
Harmony[®] liners

Latest liner technology for optimal milking

The only contact between the teat and the milking machine is the liner. Harmony[®] liners are developed according to the cow's physiology and the suckling motion of the calf.

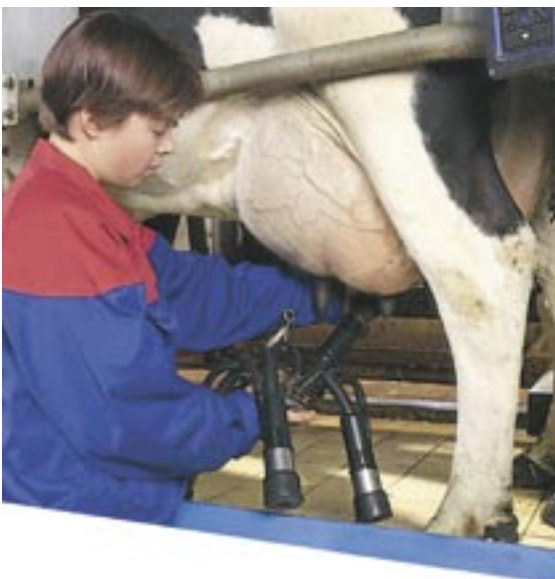
The thin, elongated lips allow the liner to closely follow the contour of the teat – the teat is not throttled at the end of milking and milk flow is not impaired.

Harmony[®] liners have a tapered, thin-walled barrel for optimal teat contact and instant liner response to the pulsating vacuum. The short milk tube, with a free diameter of 12.5 mm, exceeds the recommendations of ISO 5707 and gives a milk flow capacity more than 50% bigger than that required by ISO 5707. The result is smooth milk flow and reduced speed of impact.



Patented materials

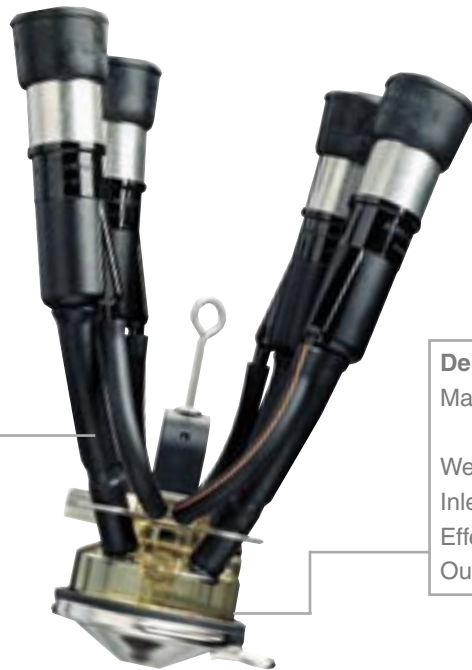
The patented, micro-textured Harmony[®] liner barrel can show less swelling during service than conventional liner barrels. Less material swelling means less material deterioration, more consistent milking performance and gentle teat treatment throughout the liner's service life.



It pays to replace in time

Rubber is a living material that ages. The replacement of old and worn-out liners is therefore the best way to protect your cows from mastitis and other teat-related problems.

In order to fulfil hygiene, udder health and productive milking requirements, it is of important that liners are replaced after sixth months or 2,500 milkings.



Harmony® cluster
Weight: 1600 grams

DeLaval claw TF360
Material: High-grade plastic/stainless steel
Weight: 490 grams
Inlet diameter, liner: 12 mm
Effective volume: 360 cc
Outlet inner diameter: 15 mm



DeLaval service arm

For parlours, the service arm is strongly recommended. It is easy to install and keeps milk and vacuum tubes correctly aligned, even if the cow moves during milking.



DeLaval cluster cleaner

The specially designed cluster cleaner with candles holds the unit firmly in place during powerful mechanical cleaning. It is efficient, practical and easy to attach.

Data – Harmony® liners

Art. No.	Set	Mouthpiece bore	Barrel bore	Liner head	Tube length	Tube diameter	<p>Liner head: S = small, R = regular</p> <p>Barrel bore: Measured 75 mm from the mouthpiece lip of the liner</p> <p>Tube length: Length of the short milk tube</p> <p>Tube diameter: Minimum free diameter of the short milk tube</p>
999006 01	80	18 mm	22 mm	S	157 mm	12.5 mm	
999009 01	82	20 mm	23 mm	R	157 mm	12.5 mm	
999007 03	83	20 mm	25 mm	R	157 mm	12.5 mm	
964008 01	80	22 mm	23 mm	R	157 mm	12.5 mm	
999008 01	80	22 mm	23 mm	R	182 mm	12.5 mm	