



## Harmony®

A perfect combination of low-weight and high performance



### **Designed for comfort and milking performance**

This low weight cluster is ergonomically designed to offer comfort to both the cow and milker.

Harmony® distinguishes itself by incorporating lightweight shells with a patented TF (Top-Flow) technology claw.

Harmony® features will optimally meet the needs of the highest producing cows or producers milking less than twelve hours a day.



# Designed to put the milker and cows in harmony



## Fast-flow capacity

The Harmony® effectively uses a 360 ml claw to cope with high milk flows up to 15 litres per minute. This efficient cluster eliminates the risk of flooding during peak milk flow, providing stable vacuum throughout the milking. Harmony® is engineered to handle the highest producing cows. The liners attach directly to the claw using nipple-less design, so there is nothing to restrict milk flow.

## Design innovations

The patented TF (Top-Flow) technology offers quick and gentle milk flow away from the claw. A specially designed center pipe increases milk flow capacity. The technology designed in to the Harmony® has been proven on dairies around the world, making it one of the dairy producer's most popular choices.

## Safe to use

The unique liner design and short milk tube connection combine to provide gentle and safe milk flow in to the claw. Harmony® liners smoothly handle high milk-flows with a large diameter free-flow design that helps eliminate plugs and cross-flows. The claw's top-unloading technology and large volume capacity promote high vacuum stability, particularly at the teat end. This protects against unwanted teat washing and cross-flows. The Harmony® cluster is fitted with a fast action shut-off-valve that closes immediately if kicked-off, to shut out dirt and air.

## Milker and cow comfort

This low weight, ergonomically designed cluster places minimal stress on the milker's body and the cow's udder. Ergonomic studies using the Harmony® have demonstrated that your workload can be reduced by up to 50 per cent during milking. This easy-to-handle cluster offers efficient attachment and take-off. It can be combined with different liners to provide maximum milking performance – offering a comfortable routine that best suits high producing herds.



# Harmony® – designed for high performance



The easy to use optional shut-off valve closes immediately in the event of kick-off, to prevent contamination.

Nipple-less design allows an unrestricted milk flow to the claw and stable vacuum levels during the entire milking cycle. This design results in no liner cuts.



Optimal design achieves ideal weight and durability.

Liner microtexture reduces material swelling giving more consistent milking.



The support ring provides efficient liner shut-off.

360 ml claw handles milk flows up to 15 litres per minute. The TF (Top-Flow) technology quickly handles high milk flows without flooding.



A transparent top provides excellent visibility to monitor milk flow from different angles.

Cluster specifications	
Weight	1,6kg
Short milk tube Ø	12,5mm
Outlet ID	16mm
Claw volume	360ml

Heavy-duty stainless steel material gives durable and reliable performance.



## Surround your milking clusters with reliable and innovative equipment from DeLaval

### Correct cluster alignment

Thorough DeLaval research and development has taught us that correct cluster positioning is essential for efficient milking, reduced slips and fall-offs. Easy-to-handle DeLaval clusters combine with a range of tubing materials, to assist correct and comfortable alignment. To further improve cluster positioning and working routines we strongly recommend using DeLaval alignment accessories.

### Natural flow control

DeLaval has developed a diverse range of equipment to meet each cow's unique milk let-down speed. For example you can use two vacuum levels to stimulate the cow prior to let-down. You can also remove the cluster at the correct time in combination with the automatic cluster remover, to reduce the chance of over-milking. These innovative products adjust to the cow's individual needs, to help ensure efficient milking.

### Milk metering facts

DeLaval milk meters allow you to efficiently monitor and record milk yield, herd health status and feed intake on a daily basis. You can use our unique milk meter programme either together with your DeLaval herd management system or stand-alone. Our milk meters are approved by ICAR (International Committee for Animal Recording). ICAR is a non-governmental, non-profit organization aimed at promoting development and improvement of performance recording activities and farm livestock evaluation.

### Automatic cluster removal

Removing the cluster automatically is a comfortable and convenient end to milking. DeLaval automatic cluster removers work in conjunction with our flow-control devices to eliminate over-milking. This reduces the risk of mastitis and offers smoother work-flow with less related injuries.

### Effective cleaning control

High quality milk production requires thorough cleaning of the entire milking system after every milking. A DeLaval cleaning system provides effective cleaning by maintaining tight control of all five key cleaning parameters including detergent type, temperature, contact time, turbulence and water volume. The cluster cleaner's design perfectly matches our wide liner range, to help ensure the mouthpiece of the liners is not damaged during cleaning.

### Unbeatable service

A milking system is the hardest working piece of dairy farm equipment. Effectively maintaining your system is vital to ensuring maximum profit from your herd. DeLaval partners you with original parts, highly qualified service technicians and a determination to optimize your milk production. For optimal milking performance, DeLaval original liners should be replaced after 2,500 cow milkings or six months, whichever comes first. We offer a complete program, covering everything from emergency service to preventive maintenance.

