



Optimise herd health and milk yield

DeLaval feed station
FSC40 and FSC400



Your solution – every day

DeLaval feed station together with Feed First™ concept



You expect your dairy cows to produce increasingly high volumes of milk. Feeding each cow to her individual needs throughout the lactation cycle will keep her in optimum health and producing to her full potential. DeLaval feeding stations enable you to get the very best from your whole herd – simply and efficiently.

Individual feeding plans for ultimate health and efficiency

DeLaval feed stations enable you to programme an individual feeding plan for every cow, based on her lactation phase and milk yield. Your cows have access to their individual concentrate ration in small portions regularly throughout the day.

Regular feeding maintains a stable rumen pH, compared to in-parlour feeding, as it maximises the uptake of nutrients and reduces the risk of metabolic diseases. And the feed stations promote excellent cow traffic in barns with the DeLaval voluntary milking system VMS, resulting in more regular VMS milking intervals.

Individual feed planning ensures that each cow receives the right level of feed throughout her cycle; stepping up feed intake at the start of lactation and reducing it towards drying-off. In the graph the blue line shows the concentrate ration in relation to the milk yield, which is shown with the red line.

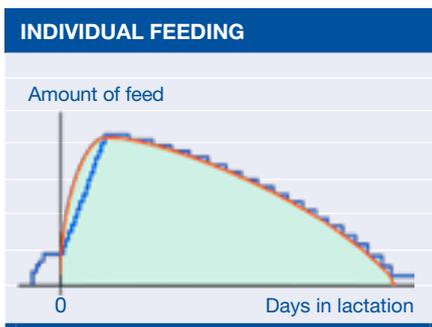
You even have the option to supplement the concentrates with minerals and propylene glycol when appropriate.

Managing body condition score

Feeding cows individually is an excellent way of managing the body condition score (BCS) of your animals and preventing the problems associated with cows that are overweight at the end of lactation, including retained placenta, displaced abomasum, ketosis and milk fever. By controlling the feed in this way, you will maximise the general health, milk yield and fertility of your cows, while saving costs on expensive concentrates by avoiding overfeeding.

DeLaval feed stations for more regular VMS milking intervals

By combining DeLaval feeding stations with DeLaval Feed First™ system, milking intervals can be made more regular. In this feed first concept, your cows have continuous free access to forages. When cows leave the feed table area, a DeLaval smart selection gate will select and direct cows to be milked or direct them back to the main barn where they can rest or visit the feeding stations. The availability of feed stations will stimulate cow traffic in your barn. Your cows will pass



DeLaval feed station FSC40



DeLaval feed station FSC400



through the smart selection gate more often, resulting in a more frequent control of milking permissions. This leads to more regular milking intervals which is beneficial to cow health. It also means you will rarely have to fetch lazy cows to be milked!

Open design for cow comfort

DeLaval feed stations have been designed for ease of use and cow comfort, and cows readily accepted the design in tests. The stations feature a very open design, with no dark or hidden corners. This gives the cow good visibility so she doesn't feel separated from the rest of the herd, and gives you easy access to train new cows to use the station. The open design also allows good ventilation and helps prevent condensation and build-up of food and dirt. Installing DeLaval RM21S premium rubber coverage in the feed station is an option for improved traction and comfort.

How DeLaval feed stations work

When a cow enters the station, the processor identifies her by an electronic transponder around her neck. Because the processor

calculates every animal's daily ration continuously around the clock, it can immediately assess if the cow should eat, and how much.

The station then blends and dispenses the feed right to the cow's mouth at a speed predetermined to match her eating speed. No feed is wasted, because feed is dispensed according to her eating speed.

A choice of feeding stations to meet your needs

DeLaval offers two feeding stations – DeLaval FSC40 and DeLaval FSC400. Both models are extremely compact, making them suitable for installation in almost any type of barn. The feeding stations are extremely robust, easy to clean and built for a long life with low maintenance.

DeLaval feed station FSC40 is the standard model and offers excellent value for money, while DeLaval FSC400 is a more premium feeding station. With DeLaval FSC400 all the parts that come into contact with the feed are constructed from stainless steel, offering protection from corrosion – a major benefit if you dispense minerals with the feed.

Both feeding stations feature

an inbuilt auger, which enables a consistent blend of up to four different feeds, in both pellet and powder form, to be dispensed.

Both stations can be optimised with a wide range of optional features to maximise the health and comfort of your herd.

A choice of processors to put you in control

When it comes to controlling your feeding stations, you also have a number of choices. DeLaval FP204X feeding processor is the basic solution, designed specifically to control the feeding stations, while DeLaval ALPRO™ is a more advanced option. With DeLaval ALPRO™ you can integrate the feeding stations with your other DeLaval products for a professional herd management solution.

Both processors use the proven Continuous Qualification Algorithm, which spreads feeding over the whole day and avoids 'rush hour' feeding. Example: A cow is allocated 8 kg of concentrates a day (24 hours). The processor allocates the 8 kg of feed over the day, recalculating the amount of feed available every few minutes.

DeLaval feed stations together with VMS

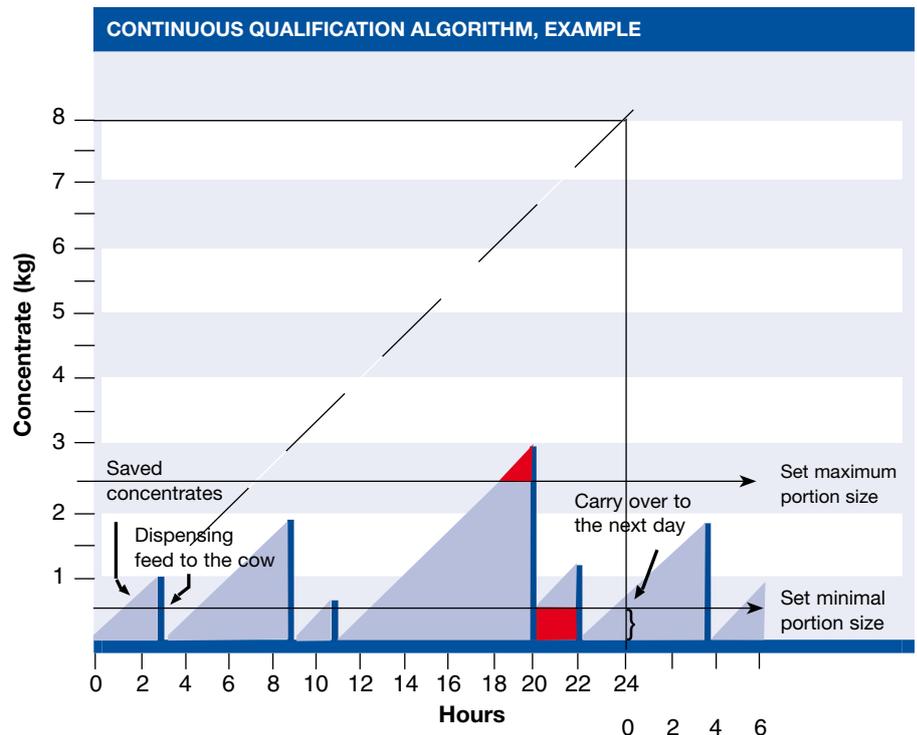
All parts of the feed station are easy to access



The portion size is determined by the amount of available feed that has been saved up. You also program the processor with a minimum and maximum portion allowed per visit. When the cow visits the feeding station, as long as the minimum portion of feed is available, she will be given a portion (see hours 3, 9 and 11). If the amount of feed available exceeds the maximum portion allowed, she will be given her maximum portion only (see hour 20) and the remainder will be dispensed in the next visit (see hour 22). If a cow doesn't consume her full daily ration, a percentage can be carried forward to the following day (see hour 24).

DeLaval FP204X – easy, cost-effective feed monitoring

DeLaval feeding processor FP204X is a straightforward desktop computer that is extremely easy to use. It can handle up to four feeding stations and provides ten basic functions, with easy-to-understand user instructions provided in a clear and simple display. This processor is designed to provide easy feed programming and monitoring. And if a cow does not eat an adequate amount of concentrates



DeLaval feeding processor FP204X



DeLaval feeding processor ALPRO™



PC with herd management software



in a day, you will receive an alarm message. This information enables you to promptly assess your animals for potential health problems.

DeLaval ALPRO™ – for integrated herd management control

DeLaval ALPRO™ is an excellent processing solution if you already have other DeLaval products, such as milking equipment, or are about to invest. With ALPRO you can integrate your feeding station data with data from many other sources to build a detailed overview of every animal in your herd throughout its life, including information on health, reproduction, feeding and milk production.

The ALPRO system includes a desktop processor and can also be connected to your computer. ALPRO gives you optimum control over your feed programming and monitoring, and enables detailed data to be collected in graphic views and reports.

TECHNICAL DATA	FP204X	ALPRO™	ALPRO™ Windows and VMS*
Capacity:			
DeLaval feed stations	4**	124	124
Feed stuffs per station	4	4	4
Feed stuffs in the processor	4	8	8
Processor:			
Back up	Battery	Memory Card***	Hard Disk
Direct link to printer	No	Yes	Yes
Feed system:			
“Continuous qualification” to control the cow eating pattern	Yes	Yes	Yes
Feed plans	Yes	Yes	Yes
Build up/step down ration according to lactation curve	Yes	Yes	Yes
Carry over function	Yes	Yes	Yes
Minimum ration to start dispensing	Yes	Yes	Yes
Minimum visit interval	Yes	Yes	Yes
Maximum intake per visit	Yes	Yes	Yes
Individual feed ingestion speed	No	Yes	Yes
Equivalent calculated milk according to fat and protein	No	Yes	Yes
Automatic ration calculation	No	Yes	Yes
Feed warning for low consumption – actual day and previous day	Yes	Yes	Yes
Feed warning for low consumption – last 3 days	No	Yes	Yes
Concentrate per day: up to 30 kg for full dry feed rations	Yes	Yes	Yes
Trickle feed dispensing	Yes	Yes	Yes
Feed storage content monitored and adjustable	Yes	Yes	Yes
Concentrate storage alarm	No	Yes	Yes
Alarm kit	No	Yes	Yes

*ALPRO™ Windows and VMS management software

** Maximum 200 animals

*** 200 cows per memory card

Country 1

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 Fax XX XXX XX XX
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 web address

Country 2

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Your DeLaval dealer

www.delaval.com



Mineral dispenser



Liquid dispenser LD1000



DeLaval rubber mat RM21S

DeLaval feeding stations – options

DeLaval auger FA

DeLaval auger FA is a flexible overhead means of transporting different feedstuffs to the feeding stations from your silo, protecting the feed and providing for maximum feed quality. The auger is simple to install and operates quietly. The high quality PVC carrier tubes are available in sizes from 55 to 90 mm diameter to handle feedstuffs in both powder and pellet form, and have spring-steel coils for a long and maintenance-free life.

DeLaval mineral dispenser

Providing your cows with the appropriate minerals in small portions over the course of the day optimises their intake. DeLaval mineral dispenser is extremely accurate, dispensing powdered minerals in doses starting from 50 g, to be blended with the other feeds.

DeLaval liquid dispenser LD1000

This piston-pump liquid dispenser is mounted on top of the feeding station and provides accurate dosing of propylene glycol to help maintain the energy balance in pre- and postpartum cows. The piston-

pump system ensures the dispenser works efficiently even in sub-zero temperatures.

DeLaval liquid dispenser LD500

Our basic propylene glycol dispenser is simply mounted on the side of the feeding station.

DeLaval rubber mat RM21S

A premium rubber floor covering that cushions the hooves for maximum traction and cow comfort.

DeLaval back gate

This gate helps to protect a cow from being attacked while she feeds, which is particularly useful in herds with more aggressive breeds. The gate closes automatically when the cow enters the station.