A good start for your future high yielding cows
DeLaval calf feeders

Your solution – every day
Profitable milk production is dependent upon healthy, high yielding cows. And as today’s calves are tomorrow’s high performance cows, the way you rear them can make all the difference. Calves that are healthy and fast-growing will reward you with high yielding cows that are productive for many years.

But rearing calves well by hand is difficult and time-consuming. DeLaval calf feeders not only maximise the health and potential of your calves, they can help make your work far less labour intensive – and save you money.

The right solution for each calf
Calves need to be fed little and often in order to assimilate their food properly. The abomasum can only hold 2 litres of milk, so it is better to split the daily ration into small portions. DeLaval automated calf feeders help you to maximise the health, growth and future potential of all your calves by providing the right feeding programme for each animal.

The benefits include:
• Fast weight gain
• Good health
• Speedy development of the animal as a ruminant

A DeLaval automated calf feeder also allows you to wean your animals off milk gently, making the experience far less traumatic for them.

The closest alternative to nature
DeLaval calf feeders imitate natural rearing and provide relaxed and stress-free feeding. Because the calves are group housed, they benefit from increased activity, social stimulation and enhanced growth. But most importantly they suckle from a teat, which provides many advantages compared with bucket feeding:

• Promotes natural sucking behaviour
• Reduces cross-sucking
• Increases saliva production
• Makes calves drink more slowly
• Prevents milk from entering the rumen

Flexibility and reliability
DeLaval calf feeders offer a whole range of possibilities to help you raise your calves as you desire. With a DeLaval calf feeder, you can:

• Save time - the system does the work for you, providing milk 24 hours a day, 365 days a year.
• Create your own feeding schedule, determining the optimum milk ration for each calf.
• Feed small portions regularly throughout the day.
• Provide perfectly dissolved and blended milk replacer.
• Provide milk that is always the right temperature.
• Feed your calves regularly around the clock, helping prevent cross-sucking.
• Wean your calves gently by gradually reducing their milk rations.
DeLaval calf feeder CF150X gives your calves a great start in life. Although it is the simplest calf feeder in the DeLaval assortment, the CF150X is still very comprehensive. It combines a milk station with a totally integrated concentrate station, enabling you to monitor your calves’ intake of both milk and concentrates and adjust their feeding plans accordingly. For fast developing calves, which have a high concentrate consumption, the milk ration can be reduced automatically, so you can make substantial savings on milk or milk replacer.

DeLaval CF150X is controlled by DeLaval feeding processor FP204X – the heart of the system. For convenience, this can also be integrated on the station. The processor enables you to select the appropriate feed plan for each calf and monitor the daily intake of its milk and concentrate rations. DeLaval CF150X recognises each calf entering the milk or concentrate station by an electronic transponder around its neck, and dispenses the appropriate portion of milk or concentrate according to that calf’s feeding plan. And if for some reason a calf doesn’t eat or drink, the processor will let you know.

It’s easy to use – simply select from a number of predesigned feed plans, or simply adjust the individual feed plan for a special calf.

Delaval calf feeder CF150X allows you to feed your calves cow’s milk or milk-replacer or a combination of both.

Suitable for farms of any size
Each milk and concentrate station can handle up to 25 calves. You can feed more calves by connecting as many as four stations to one processor, which can then manage up to 100 calves. But that’s only part of the story. By adding the software program DeLaval PC Link, you can connect up to 10 processors and feed up to 1000 calves – in a single totally integrated system.
Rearing healthy calves
DeLaval calf feeders CF500 and CF1000 offer a whole host of possibilities for professional calf rearing. Both models are durable, low maintenance and provide a range of functions for advanced calf management. But while they look the same from the outside, there are several differences inside – depending on your needs.

Milk for each calf individually
DeLaval CF500 and CF1000 calf feeders are both designed to deliver precise portions of milk for each calf, in small amounts around the clock, meeting its needs naturally. Each calf can be fed with cow’s milk, milk-replacer or a combination of both, and if you choose to change the type of milk, you can do so gradually. For example, you may choose to provide your youngest calves with milk-replacer, gradually switching to cow’s milk as they mature. Another option might be to feed male calves cow’s milk, and female calves milk replacer.

How it works
As soon as a calf enters a milk station, it is recognised by its electronic transponder and, according to the calf’s feeding plan, the DeLaval calf feeder decides if it is allowed to drink, and how much. A minimum and maximum portion of milk per visit can be set for each calf. Providing the calf is allowed to drink, the calf feeder immediately prepares a fresh portion of milk at your predetermined temperature for example at –39°C the calf feeder constantly measures the ambient air temperature and adjusts the boiler temperature if a change is detected.

Feeding plan flexibility
While your calves are most likely to be physically grouped by age, they are fed according to their individual needs.
DeLaval CF500 offers two feeding plans with milk portions of 0.25 litres. If a calf doesn’t drink, or only drinks a small part of their ration, you will be alerted. DeLaval CF500 also alerts you if a calf’s drinking speed changes, as this could indicate the onset of a health problem.
DeLaval CF1000 offers four feeding plans with a step size for increasing and decreasing daily rations by just 100 ml. The portion size is also defined precisely, varying between 0.25 litres and 0.5 litres. For example if a calf is allowed to drink 1.7 litres, the first portion will be 0.35 litres,
followed by two portions of 0.5 litres and a final portion of 0.35 litres. If a calf doesn’t drink, or only drinks a partial portion, DeLaval CF1000 lets you know exactly how much milk has been consumed. DeLaval CF1000 also offers plans for concentrates, milk ratio, supplements, and more.

Teaching calves to drink
DeLaval CF500 and CF1000 both offer a learning function, which helps you teach your calves how to suckle from the feeder. When a new calf enters the milk station, you simply push a button to release a little milk from the teat. Once the calf gets this first taste of the milk it should continue to suckle without any further help.

Milk stations
DeLaval CF500 allows you to connect one or two milk stations. With one station you are able to feed 25-30 calves, and with two stations 50-60 calves (over a short period). With DeLaval CF1000 you can connect up to four milk stations and feed at least 80 calves very comfortably. And if some of your milk stations need to be located far from the central unit, a milk pump can be added to ensure constant pressure and flow, enabling your calves to drink easily.

Durability, quality, capacity
While all the calf feeders in the DeLaval assortment offer excellent durability and low maintenance, DeLaval CF1000 has been designed for heavy duty applications and is the recommended option if you want to rear more than 100 calves per year. DeLaval CF1000 offers a number of other benefits. For instance, with 5 kW, it has double the heating capacity of DeLaval CF500, for faster heating of the water used to make the milk. It also features a more rugged powder motor and circulation pump, designed for a longer life.
Finally, DeLaval CF1000 provides a storage option for 50 kg of milk-replacer powder, compared with the standard 35 kg, so it doesn’t need to be refilled so often. It is easy to see when the powder needs to be replenished.

Integrate with herd management
DeLaval CF500 and CF1000 are stand-alone calf feeders, but can also be controlled by DeLaval herd management system. A cable-connected handheld computer gives you access to all your important calf data directly in the calf barn when questions arise, and allows you to control ration adjustments.

A profitable investment
Investing in a calf feeder can be a highly profitable investment for all types of farm – large or small. With calf health benefits, labour savings and potential future milk yield, you can see how many ways a DeLaval calf feeder could positively impact on your bottom line.
Options for DeLaval CF500 and CF1000

**DeLaval concentrate station**
By adding DeLaval concentrate stations to your calf feeding system, you can enjoy simple and efficient calf rearing with the automatic weaning function, helping save expensive milk-replacer costs. By measuring how much concentrate each calf eats, you have the option of automatically reducing the milk ration for calves that display a high feed intake at a young age. Calves that develop more slowly can simply continue on the normal feed plan. Automatic early weaning could save you in the region of 10 kg of milk-replacer for each calf*.

**Additive dosers**
Additive dosers allow you to add nutritional supplements to the feed of specific calves. For example you can add Feedtech™ electrolytes or other Feedtech™ products. Precision dosers are available for powder additives and dosing pumps for liquid additives.

**Anti-freezing kit**
If your calf feeder is exposed to sub-zero temperatures in winter, you will benefit from the installation of this heating cable, to keep the water in your calf feeder from freezing.

**Fully automatic cleaning with detergent pump**
A detergent pump can be added to the automatic cleaning system of both the DeLaval CF500 and CF1000 to implement a thorough cleaning cycle. You don’t need to be there – cleaning starts at a preset time and the detergents are added automatically.

* Source: Top Agrar, 12/98, Germany.

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**Optional extras**
- DeLaval concentrate station
- Additive doser
- Automatic cleaning system

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DeLaval CF500 and CF1000 in the stainless steel version
**DeLaval CalfManager**

DeLaval CalfManager is a PC program that is ideal if you have large groups of calves. It can be linked to one or more calf feeders and gives you a clear overview and easy control of all your calves from the comfort of your PC. For example, you can manage feeding programmes, move calves from one calf feeder to another and see whether any animals have drunk insufficient milk or drunk their milk slowly. You can also generate reports and graphs that show milk rations and consumption over specific periods.

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**Fly door**

An optional fly door is available for both DeLaval CF500 and CF1000, which prevents insects from entering the unit and contaminating the milk or milk-replacer powder.

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**Optional extras for all DeLaval calf feeders**

**Swing gate**

A swing gate works well to enable calves grouped by age to use one milk station. In this way, calves from both groups can use the same station without the older calves dominating the younger ones.

**Automatic closing gate**

To prevent calves from being harassed by others while drinking, a special gate closes automatically behind them. This application is recommended for certain more aggressive breeds.
<table>
<thead>
<tr>
<th></th>
<th>CF150</th>
<th>CF500</th>
<th>CF1000</th>
</tr>
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<tbody>
<tr>
<td>Capacity one calf feeder</td>
<td>100 calves</td>
<td>50 calves</td>
<td>80 calves</td>
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<tr>
<td>Numbers of milk stations</td>
<td>1 to 4</td>
<td>1 to 2</td>
<td>1 to 4</td>
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<tr>
<td>Number of feeding plans possible</td>
<td>99</td>
<td>2*</td>
<td>4*</td>
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<tr>
<td>Can be connected to DeLaval herd management software</td>
<td>No</td>
<td>Yes</td>
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<tr>
<td>PC software</td>
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<td>(Calf manager)</td>
<td>(Calf manager)</td>
<td>(Calf manager)</td>
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<tr>
<td>Concentrate station with automatic early weaning for fast developing calves</td>
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<td>Feeding with milk replacer</td>
<td>Yes, manual mixed</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Feeding with cow milk</td>
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<tr>
<td>Automatic cleaning with detergent pump</td>
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<tr>
<td>(Standard if feeding with cow milk)</td>
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<tr>
<td>Medicine dispensing</td>
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<tr>
<td></td>
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<td>DeLaval Super</td>
<td>DeLaval Super</td>
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* 8 feeding plans if the calf feeder is connected to DeLaval herd management software