

# DeLaval International AB

## DeLaval feed fence

Model HL 10

### DLG-Prüfbericht 5757



#### Registering company

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DLG e.V.  
Testzentrum  
Technik und Betriebsmittel

### Short Description

Feed fence with a modular design for dairy cows or cattle in loose houses. Purpose: fixation of the animals during basic and concentrate feed intake as well as for measures of animal control and treatment

The feed fence can be operated as follows:

1. Opened headlock:  
The animals can move their heads freely through the feeding rack.
2. Locked headlock:  
The animals catch themselves.
3. Single place solution:  
Every animal place can also be unlocked separately.

*(Technical data see page 6.)*

## Evaluation – short version

Tested Feature	Test Result	Evaluation
<b>Suitability</b>	For the fixation of dehorned cows and cattle weighing more than 380 kg during basic and concentrate feed intake as well as for measures of animal control and treatment	

### Technical criteria

<b>Installation</b>	Assembly and installation plan clear and understandable	+
	Installation by owners with craft skills possible	○
<b>Feed losses</b>	Small	+
<b>Operation</b>	Locks on top, easy and simple to operate	+
	Be careful when unlocking individual places	-
<b>Operational reliability</b>	Good during operation	+
	No malfunctions	+
<b>Durability</b>	Good during operation	+
	No noticeable wear	+
<b>Warranty</b>	Warranty period one year	

### Animal-related criteria

<b>Behaviour of the animals</b>	Dehorned animals have no difficulties adjusting to the system	+
<b>Injuries</b>	So far, no injuries have been observed	+

### Work Safety

<b>Work Safety</b>	Confirmed by DPLF	
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Evaluation range: ++ / + / ○ / - / -- (○ = standard)

# Test results

## I. SUITABILITY

The DeLaval feed fence HL 10 is suitable for the group-wise feeding of dehorned cows and cattle weighing more than 380 kg during basic and concentrate feed intake and for measures of animal control and treatment as well as for the fixation of the cows after milking. The modular design of the feed fence and individually adjustable feeding place widths of 50 and 60 cm (young cattle) as well as 65, 70, 75, or 80 cm (cows) largely allow the feed fence to be adapted to any given feed table lengths and pillars even if buildings are converted.

## II. TECHNICAL CRITERIA

### Installation

The assembly and installation of the feed fence requires craft skills. With the aid of the installation plan, this work can also be carried out by the owner. Two persons are needed for the installation of the feed fence. The boreholes at the feed fence for attachment to standing pipes and pillars fit exactly. The installation plan is clear and understandable.

During installation, one must make sure that the mechanical locking system and the fixation elements

are adjusted correctly so that the animals are caught reliably. About 4 weeks after installation, the fastening bolts of the one-hole pipe clamps should be tightened.

### Feed losses

Even if the animals have free access to the feed fence, feed losses are small because the animals must lift their heads when leaving the feeding place. Locked in animals lose virtually no feed. A 15° degree inclination of the feed fence in relation to the feeding table does not impair the function of the feed fence.

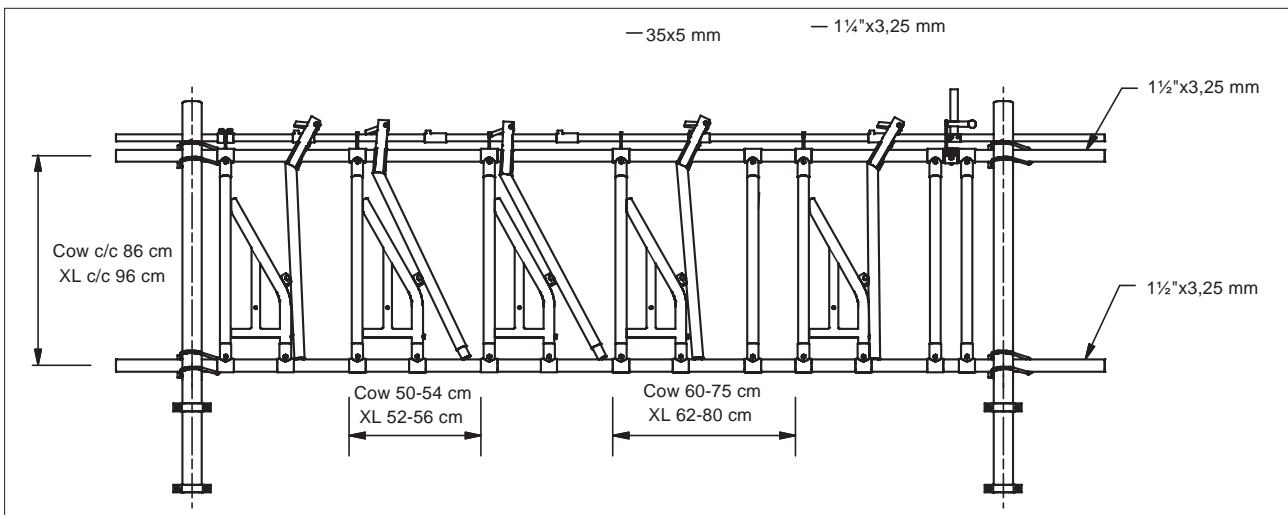


Fig. 2:  
System sketch DeLaval feed fence HL 10 (Type: Cow und XL)

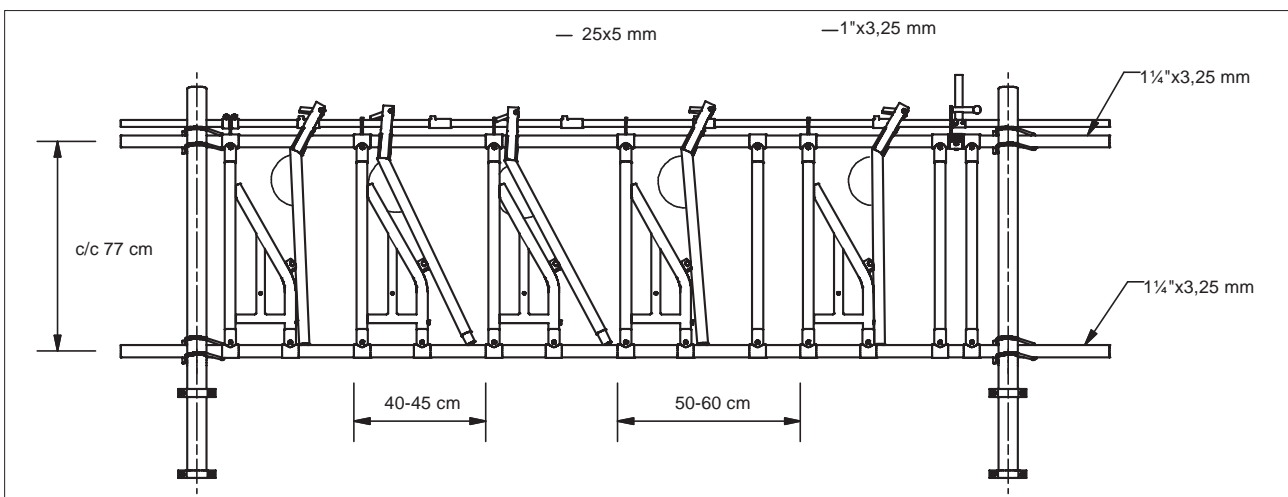


Fig. 3:  
System sketch DeLaval feed fence HL 10 (Type young cattle)

## Operation

The feed fence can be operated easily and using just one hand. The lock on top of the feed fence is smooth and easy to operate. While the animals are fixed, the single place unlocking system should be operated with care.

The rubber knobs on the catching pipes prevent a higher noise level.

## Operational reliability

During 12 months of practical use, operational reliability was good. No malfunctions occurred.

## Durability

During 12 months of practical use, durability was good. The locks, bolts, or metal and plastic parts did not show any noticeable signs of wear.

## Warranty

According to the terms of warranty, the manufacturer grants a warranty period of one year.

## III. ANIMAL-RELATED CRITERIA

### Behaviour of the animals

Dehorned animals have no difficulties adjusting to the feed fence.

### Injuries

During the test period, which has lasted 12 months so far, no injuries have been registered on the test farms.

## IV. SURVEY RESULT

A survey carried out on 20 farms which have used the feed fence at a total of 1,484 feeding places for up to 2 years largely confirms the test results.

80% of the farmers installed the feed fence themselves, and 85% stated that installation was easy.

All farms stated that the feed fence did not cause any injuries and that the animals accepted the feed fence well and were not impaired while eating.

90% of the farms describe operation as easy and 10% consider it conditionally easy.

25% of those questioned describe the unlocking of a single animal stand as conditionally easy or slightly difficult.

95% of the farms considered operational reliability as problem-free. No damage and no wear occurred. Some farms are not yet able to evaluate durability due to the short period of use.

95% of those questioned gave the feed fence a good to very good overall evaluation, and 100% would buy it again if necessary.

## WORK SAFETY

The feed fence HL 10 was assessed by the DLG laboratory of the German Test Institute for Agricultural and Forestry Machinery (DPLF). Under the aspect of work safety technology, there are no objections to the use of the feed fence.

## Description and technical data (measured values)

### Warranty period

one year

### Installation

According to the installation instructions of the manufacturer

### Pipe and galvanization qualities

(information provided by the manufacturer)

All metal parts including the bolts are galvanized according to ISO 14561 1999.

### Available models

<b>Cows</b>	feeding place width 650 mm, 700 mm, 750 mm, and 800 mm
<b>Young cattle</b>	feeding place width 500 and 600 mm

### Main measurements and weight (at a feeding place width of 70 cm)

<b>Length</b> (5 feeding places)	3500 mm
<b>Height:</b>	860 mm
<b>Weight</b> (5 feeding places without mounting posts)	112 kg

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The DLG SignumTest includes the installation and operation of the DeLaval feed fence HL 10, the behaviour of the cows, and the registration of possible injuries caused by the feed fence.

In addition, operational reliability and work safety as well as durability were assessed.

### Realization of the test

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### Published

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