



The original Feedbelt

*Feeding can be so efficient!*

## New building guide



Structural fundamentals



Stable plans



Reference farms



# NEW STABLE CONSTRUCTION,

## BUT AFFORDABLE PLEASE!

Dear Reader,

is it still worth building a new barn in today's world? Are there ways to keep construction costs lower? We are asked these questions all the time and there is a clear answer, „Yes!“

The cost of building a barn 10 or 20 years ago, compared to building a barn in this day and age, has increased considerably. Therefore, it is even more important to build as efficiently as possible. Besides a solid and well thought-out planning, the enclosed space in particular is a decisive cost factor.

With our **feedstar** feeding system, we have been reducing the enclosed space enormously for over 50 years. A wide feed table is no longer needed and only the space that the animals actually need to eat is required for the feed table. This means that a barn can be made up to 4 meters narrower without changing the rest of the barn concept. In a 50m barn, for example, this means up to 200m<sup>2</sup> of saved enclosed space.

A positive side effect, in addition to the great cost savings due to the space saved, is the noticeable reduction in workload.

Both, the repeated daily feed pushing and the sweeping of the feed table, are completely eliminated. With this guide, we would like to present our feeding system to you. We explain how our system works, go into the constructional basics, show barn construction plans and cross-sections and present a small selection of our reference farms.

Enjoy reading this guide and best regards from Tuntenhausen, Germany.

Marco Dworschak  
Division manager Feedstar

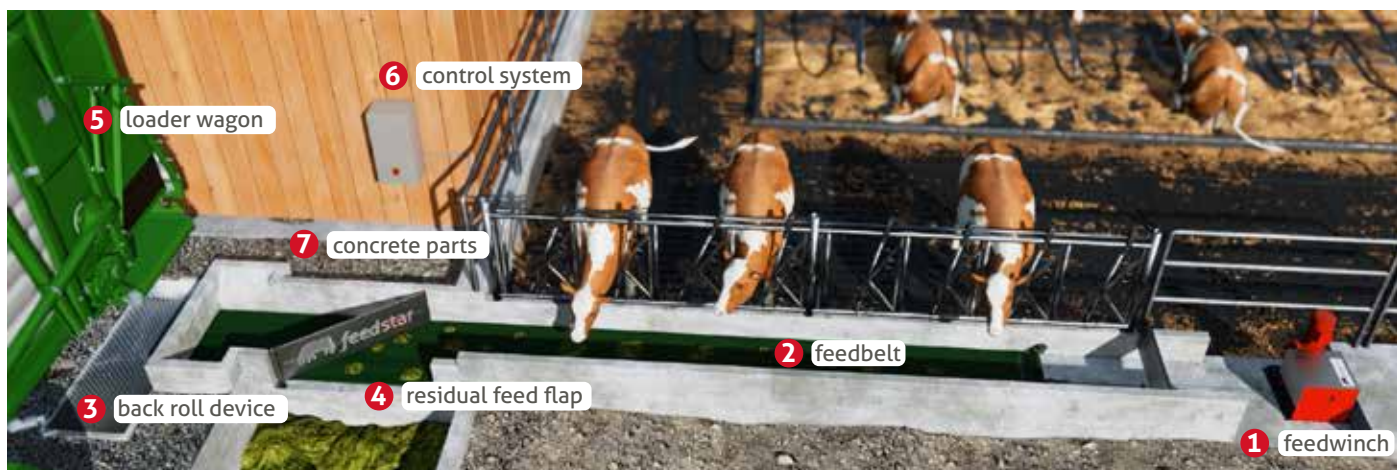
## Functional principle of *feedstar*

### The easiest and most efficient way to feed

Our robust and smooth running winch retracts the belt while loading feed. After the animals have eaten the feed from the belt, a back roll device pulls the belt with the remaining feed out of the barn.

The belt is rolled up after the residual feed has been pushed through the residual feed flap into a collecting pit.

Depending on the system, the components can be controlled both automatically and manually.



# COMPONENTS

## FEEDBELT

### Shortfacts:

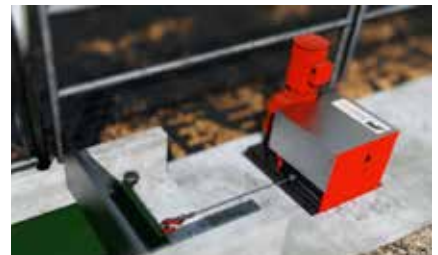
- High tensile strength due to diagonal weaving
- Incl. pull bar, pull eye and hard PVC rollers
- up to 85 m length
- up to 3 m width
- Polyester reinforced
- food safe
- tear resistant up to 20 tons



## FEED WINCH

### Shortfacts:

- very powerful (from 2kW to 11kW)
- constant & stepless speed
- mechanical clutch & brake
- drum from 203mm diameter
- automatic limit switch
- robust steel bracket as end switch



## BACK ROLL DEVICE

### shortfacts:

- never sweep outagain
- individually adapted to the feed quantity
- low maintenance - no unnecessary technology (Neither ball bearings nor electronics)
- robust winding shaft with 79mm
- special design possible
- fast belt retraction



## RESIDUAL FEED FLAP

### shortfacts:

- aluminum flap
- automatic & manual possible
- cleans the belt while pulling out
- length up to 3000 mm
- height 400 mm
- patented system



## BASIC AND VARIO CONTROL

### shortfacts:

- simple operation
- constant & stepless speed
- IP65 (dust and water jet protected)
- radio remote control
- low maintenance
- CE compliant



## PRO CONTROL

### shortfacts:

- automatic feeding and residual feed discharge several times a day
- feed quantity and feeding time exactly adjustable
- can be combined with feed metering unit, hybrid or stationary mixer
- manual operation possible at any time



# 12 things that are important for our customers.

## Work facilitation

With *feedstar* you save yourself the daily feed pushing and sweeping out the barrow.

## Space-saving

With *feedstar*, a lot of space can be saved in a new building, because a wide feed table is replaced by a space-saving feedbelt.

## 50 years of experience

The *feedstar* feeding belt has been produced by us for more than 50 years and is now in more than 4,000 farms.

## More space for animals

Through a cost-effective conversion with *feedstar* from tethering stable to loose housing you gain additional space for your animals.

## For new construction and reconstruction

Our *feedstar* system is suitable thanks to its flexibility and customizability for both, new buildings as well as reconstructions in all sizes.

## Single & double sided feeding

Our feeding system is suitable both for the construction of a central feeding table as well as for a wall-mounted or external feeding table.

## Durability

The *feedstar* feedbelt is very robustly built and proven to be low-maintenance and durable.

## Time saving

In addition to the time saved for pushing of the feed is saved, our Pro variant can perform the feeding process completely automated several times a day.

## Flexible feeding

Our *feedstar* feedbelt can be used with any feed mixer, loader wagon feeder, hay crane or similar.

## More animal welfare

Since the tractor no longer has to drive through the barn, there is neither noise, dirt or exhaust fumes in the barn, resulting in a quiet and clean barn atmosphere.

## Adaptable

Each *feedstar* feeding system is individually planned and produced and is therefore adaptable to all structural conditions.

## Modular

*feedstar* feedstar is available in three variants Basic, Vario and Pro, which have a modular system and can be expanded at a later date.



# STRUCTURAL FUNDAMENTALS

## Durable and sustainable

*feedstar* is not an off-the-shelf product, it is an individually adapted solution - created in the development and production at Eder in Tuntenthausen, Germany. The components are prefabricated here to fit the respective requirements and then prefabricated and assembled at the customer's site.

*feedstar* is optimally designed for both new construction and the conversion of barns. If due to fire regulations or structural conditions, for example, our space-saving system allows the area to be used as efficiently as possible.

But also in terms of construction costs, these are reduced in a new building with *feedstar*, because no unnecessary space is wasted by a wide feed table.

The system is available in versions with feeding on one or both sides. Because of the possibility of freely selectable length and width of the feed belt, the *feedstar* system can be adapted to the respective structural situation.

## ONE-SIDED AND TWO-SIDED FEEDING POSSIBLE



## RESIDUAL FEED AREA CAN BE INDIVIDUALLY DESIGNED



# OTHER CONSTRUCTION FUNDAMENTALS

**CAN BE USED INDOORS AND OUTDOORS**



**EASY ASSEMBLY BECAUSE OF THE POSSIBILITY OF MODULAR WALLS.**



**GRADIENTS POSSIBLE AT ANY TIME**



## SPECIAL CONSTRUCTIONS CAN BE IMPLEMENTED ON REQUEST



## USE OF PRECAST CONCRETE PARTS POSSIBLE, WHICH ARE DIRECTLY CUSTOMIZED



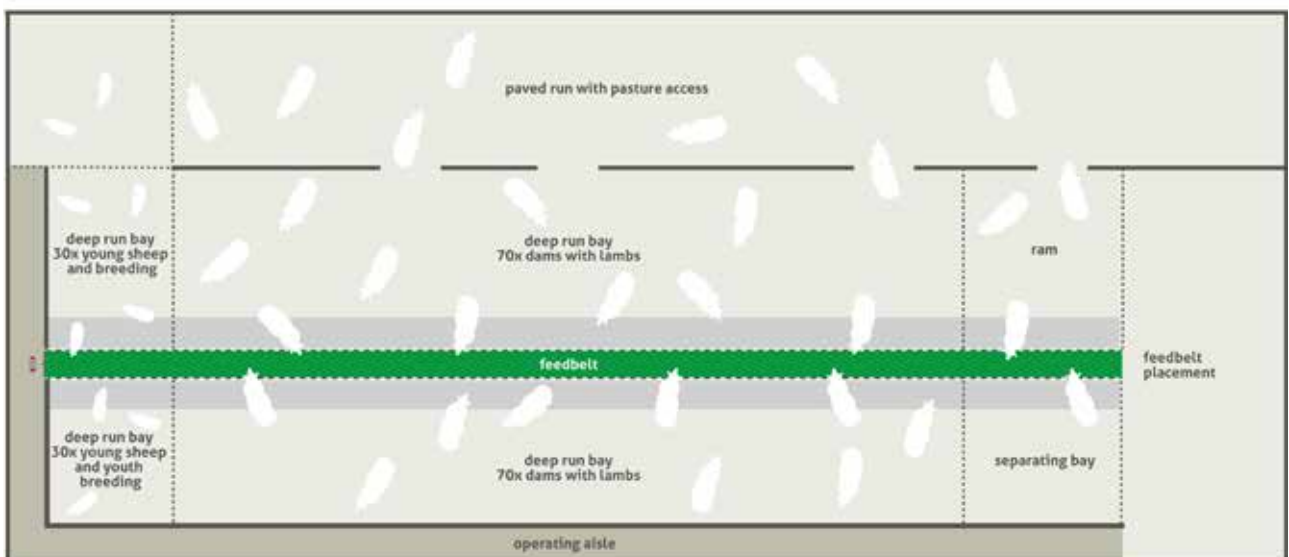
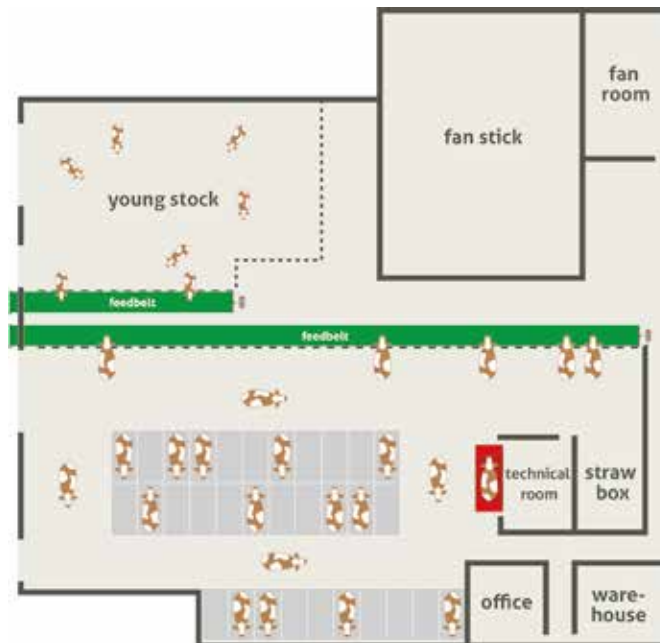
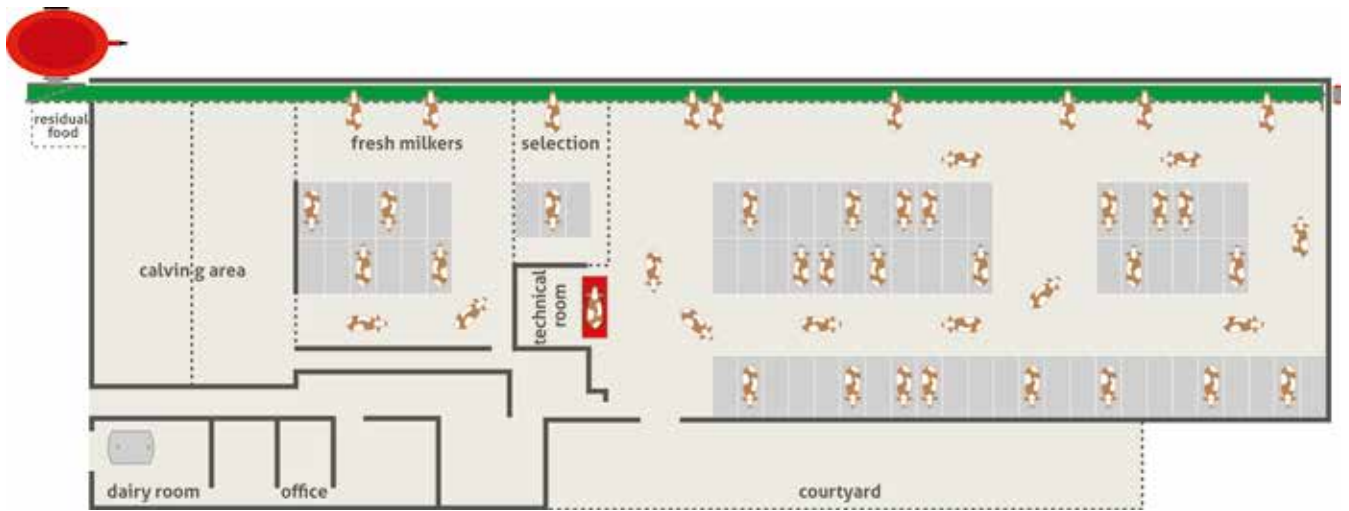
## INDIVIDUAL FEEDING POSSIBLE



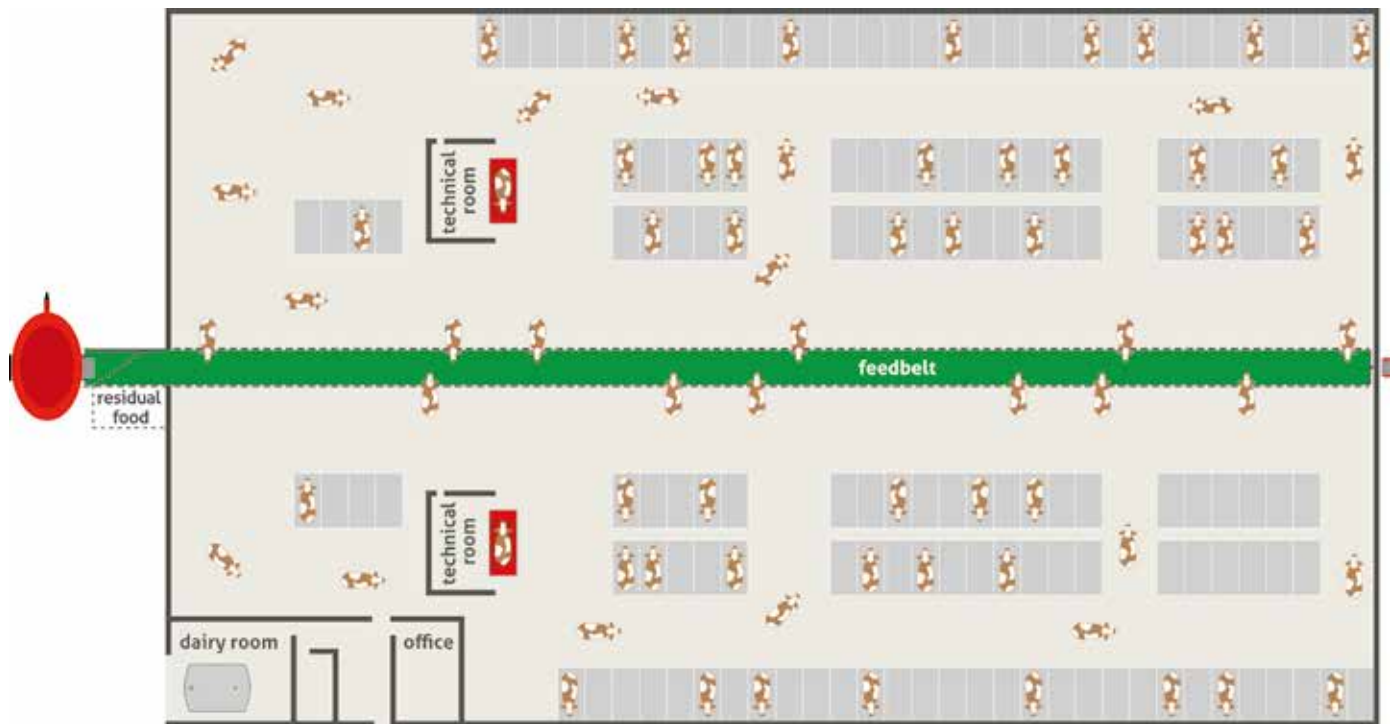
## DIVERSE INSTALLATION OPTIONS OF THE WINCH



# New building plan

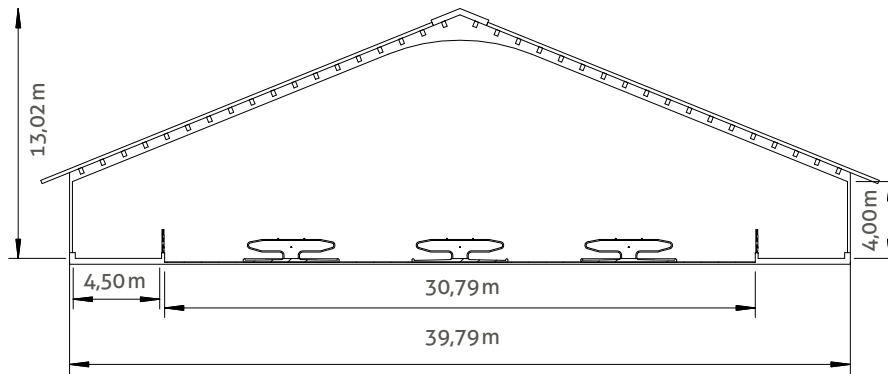




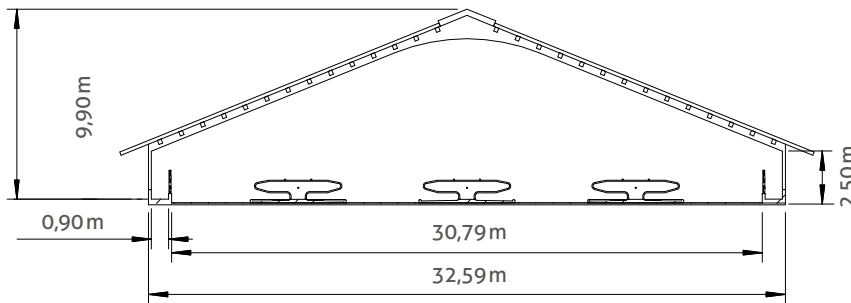


# CROSS SECTION COMPARISON FEEDING TABLE VS. FEEDBELT

## Loose housing with 2x feeding table

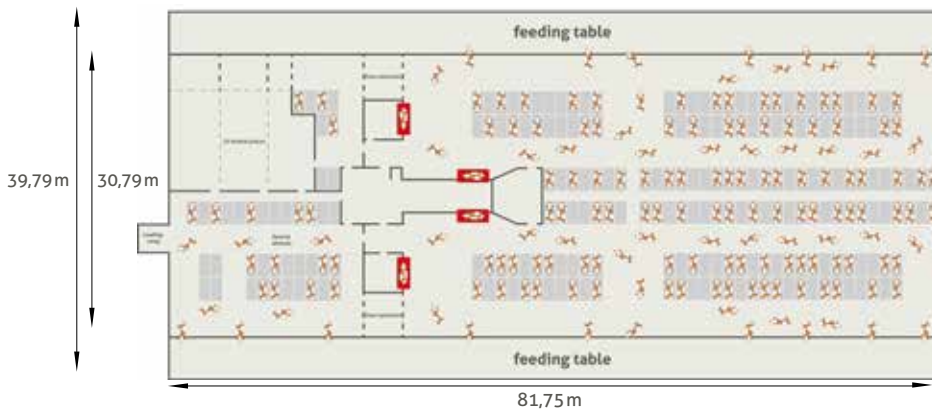


## Loose housing barn with 2x feedbelt

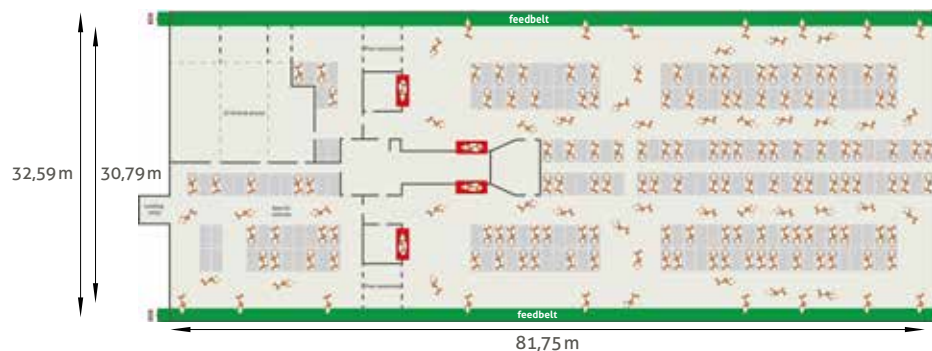


# NEW CONSTRUCTION WITH FEEDING TABLE VS. FEEDBELT

Base area with feeding table: 3.253 m<sup>2</sup>



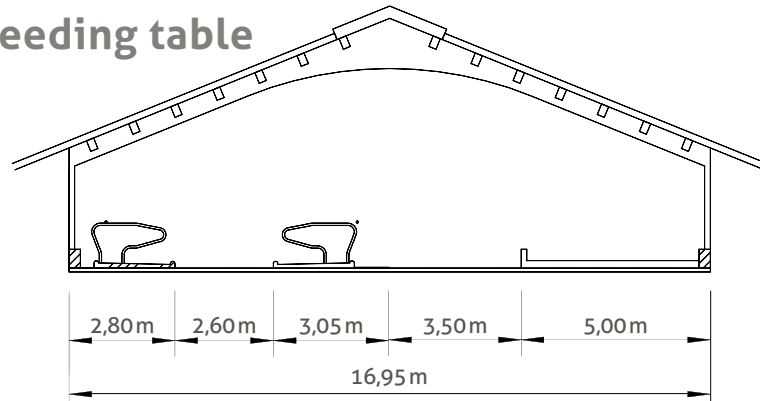
Base area with feedbelt: 2.664 m<sup>2</sup>



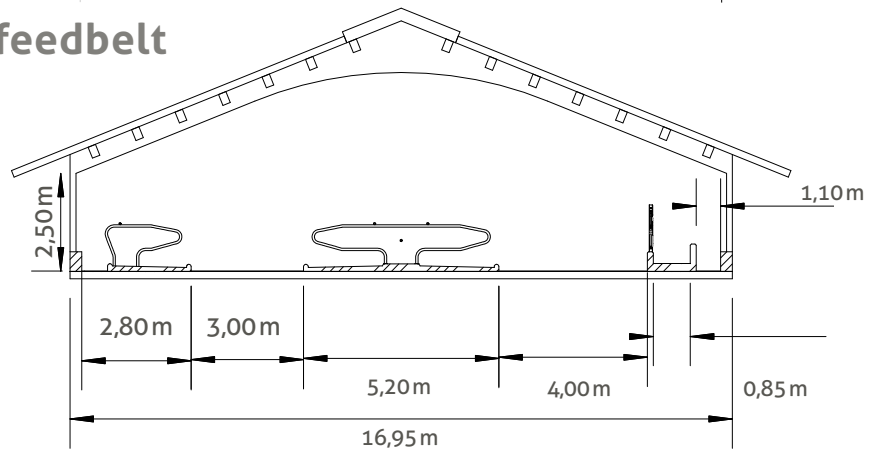
Savings 589 m<sup>2</sup>  
enclosed space  
=> Resulting in a saving of  
von 412.300 € (700 €/m<sup>2</sup>)

# CROSS SECTION COMPARISON FEEDING TABLE VS. FEEDING BELT

## Loose housing with feeding table

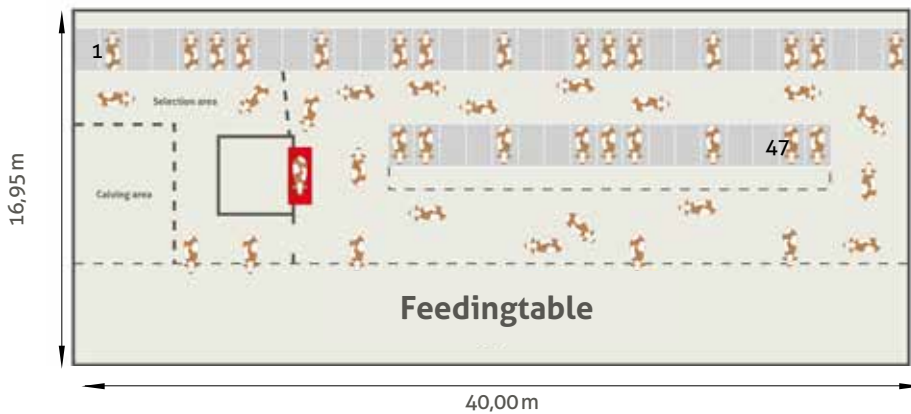


## Loose housing with feedbelt

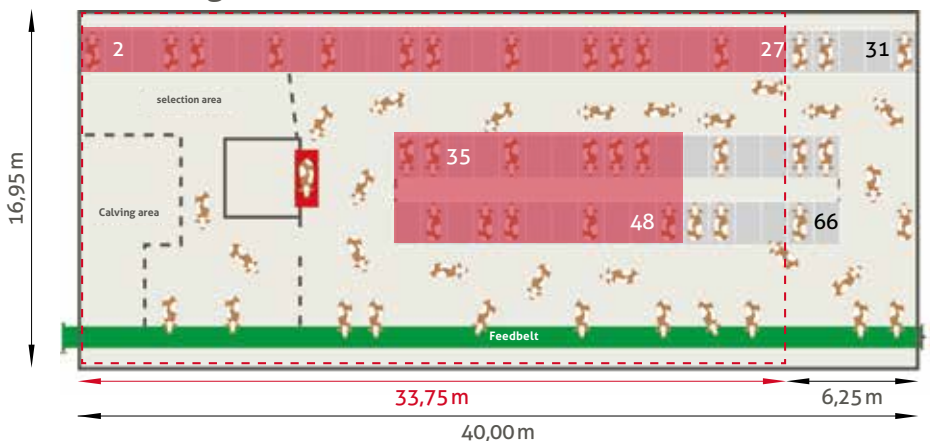


# COMPARISON FEEDING TABLE VS. FEEDBelt

## Loose housing with feeding table: 49 cubicles



## Loose housing with feedbelt: 66 cubicles



**Space for 17 animals more with the same area**

**Alternative: Savings 106 m<sup>2</sup> enclosed space with the same number of animals (49 cubicles)**

**» Corresponds to a saving of 74.156 € (700 €/m<sup>2</sup> enclosed space)**

# REFERENCE FARM

**150**  
Goats

**1x**  
*feedstar* Basic

**40 m**  
Length

## Goat stable of the Wöss family *feedstar* basic also ideally suited for goats

### Flexible feeding for 150 goats

Mr. Wöss decided in 2017 to build a new building for his total of 150 goats. He was looking for a compact solution for which feeding with hay, silage and green fodder was easily possible. Likewise, his new system had to be compatible with his bale shredder. After a short research, Mr. Wöss came across our *feedstar*, which met all requirements.

After extensive consultation and planning, a *feedstar* Basic was finally ordered. The *feedstar* feedbelt of the Wöss family was perfectly adapted to the conditions of the new building and projected to ensure maximum efficiency.

### Tangible added value

The 40 m long and 0.9 m wide feedbelt now supplies 150 goats daily. The added value of the *feedstar* became noticeable after a short time, both for the Wöss family and for the animals.

After the first four years with their *feedstar*, the Wöss family is very satisfied and would install the *feedstar* basic again at any time.



# REFERENCE FARM

**45**  
Dairy cows

**1x**  
*feedstar* Basic

**42 m**  
Length

## Dairy barn of the Hermann family *feedstar* basic in the new freestall barn

### Work facilitation in the new construction

From 1981 to 2021, the Hermann family milked 30 cows in a tie-stall barn with a drive-over feed table. Due to the arduous work and the outdated technology, the family decided to build a modern new building. This was to be brighter, larger, more comfortable, and thus built with the future in mind.

The decision in favor of the *feedstar* feedbelt was quickly made. One of the reasons for this was, among the lower construction costs compared to the drive-over feed table. In addition, the feed does not have to be pushed and the animals can still reach it at any time.

### Simple and uncomplicated installation

The installation of the feed belt was done by the farmer himself. Due to the good description, this is done in no time at all. With all the components, such as the winch, the belt, the back roll device and the control, the system is simply constructed.

Marinus Hermann would install the feedbelt again at any time.



*feedstar* customer report  
Scan the QR code and watch the video  
about the farm



# REFERENCE FARM

**120**  
Dairy cows

**2x**  
*feedstar* Vario

**61 m**  
Length

## New construction freestall barn of the Scheiner family

Animal welfare barn with *feedstar* Vario

### Perfect solution also for larger stables

A great strength of our feeding system consists in its flexibility and it is therefore suitable for the conversion of narrow barns. However, *feedstar* can also be the perfect solution for larger barns, as demonstrated by the Scheiner family's new building in Stadelhofen.

Animal welfare was the top priority in the freestall barn planned by Mr. Scheiner himself. For optimal ventilation, the barn was deliberately built in an east-west direction.

### Super air quality thanks to electrically operated feedbelt

Therefore, it was only logical to install a feeding system that would not carry any noise or exhaust fumes into the barn. Thanks to the *feedstar*, the Scheiner family's showcase barn has greatly improved air quality and a more pleasant barn atmosphere than comparable freestalls.

Consequently, the decision was made to install two *feedstar* Vario units, each 61 m long, on the two outer sides of the loose housing. In addition, two modern milking robots as well as large foam cubicles were installed in the barn. In this way, an optimal feeding atmosphere was created for the 120 dairy cows.



# REFERENCE FARM

**40**  
Dairy cows

**1x**  
*feedstar* Basic

**27 m**  
Length

## New building for dairy cows of the Lindner family

Save enclosed space with *feedstar* Basic

### Option for extension

The Lindner family wanted no more noise and no more exhaust fumes in their barn, so our *feedstar* system was the perfect solution. They were also looking for a system that could be expanded over time into a fully automatic feeding system. Due to the local conditions, it was important that the system was very space-saving, as in smaller barns every square meter is even more valuable.

### Better herd climate thanks to permanent feed availability

The decision in favor of *feedstar* was made very quickly after our system was able to meet all of the requirements of the Lindner family's requirements. A *feedstar* Basic with a 27-meter-long and 1.7-meter-wide feeding from which the dairy cows can access their feed on both sides.

Feeding from both sides means that even lower-ranking animals have access to sufficient feed, which leads to a better climate within the herd.

Mr. Lindner is very satisfied with his *feedstar* Basic so far and we would be pleased if we can upgrade to a *feedstar* Pro at some time in the future.



We are happy to assist you with your barn construction planning free of charge.

**We are looking forward to your call or e-mail.**

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Interesting information about our feedbelt  
and great company reports  
you can find on our *feedstar* YouTube channel.



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