

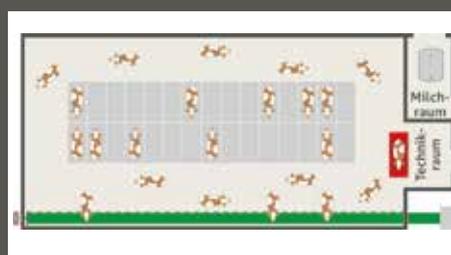


The original feedbelt
Feeding can be so efficient!

Conversion guide



Structural fundamentals



Stable plans



Reference farms



BARN CONVERSION, but easy, please!

Dear Reader,

Is there a cheap and easy way to get away from tethering my animals? Are there possibilities, to convert my current barn for the future with little effort? We are asked these questions again and again and there is a clear answer: „Yes“!

The costs of building a new barn are rising and rising. At the same time, the trend is moving from tethered to loose housing. Many farms are therefore faced with the existential question of how to continue with their business.

With our **feedstar** feeding system, we have been able to convert existing barns very cost-effectively for over 50 years, so that it is ready for the future. There is no need for a wide feeding table and only the space for the feeding table is needed that the animals actually need to eat. This results in a large additional area being gained in the barn without having to increase the floor area of the barn. For example, in a 40m barn this is up to 160m² gained area.

A positive side effect, apart from the space gained by eliminating the feed table, are 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 structural basics, show barn plans and cross-sections, and present a small selection of our reference farms.

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


Marco Dworschak
Division manager Feedstar

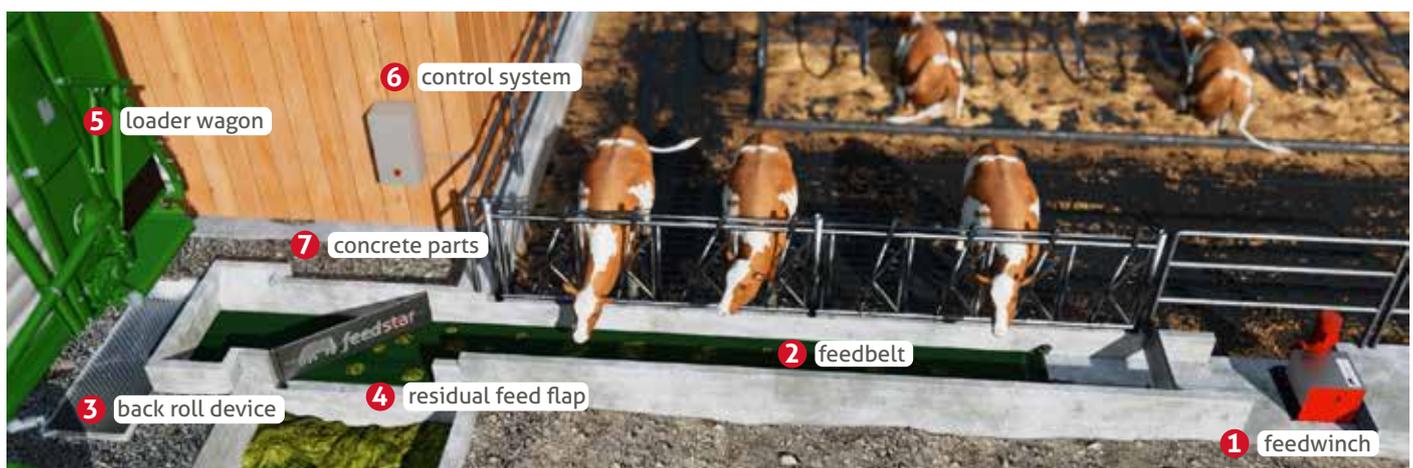
Functional principle of *feedstar*

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:

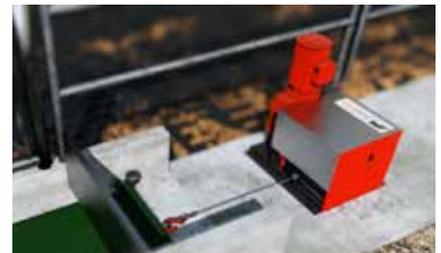
- High tensile strength due to diagonal weaving
- Incl. pull bar, pull eye and hard PVC rollers
- up to 85 m length
- up to 3 m width
- Polyester reinforced
- food safe
- tear resistant up to 20 tons



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 out again
- 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 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 Tuntenhausen, 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.

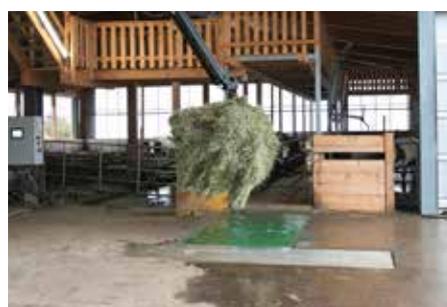
Even the conversion of an old tethered barn into a modern loose house is possible with our feeding belt without major construction measures. This is an excellent way to make a barn fit for the future.

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

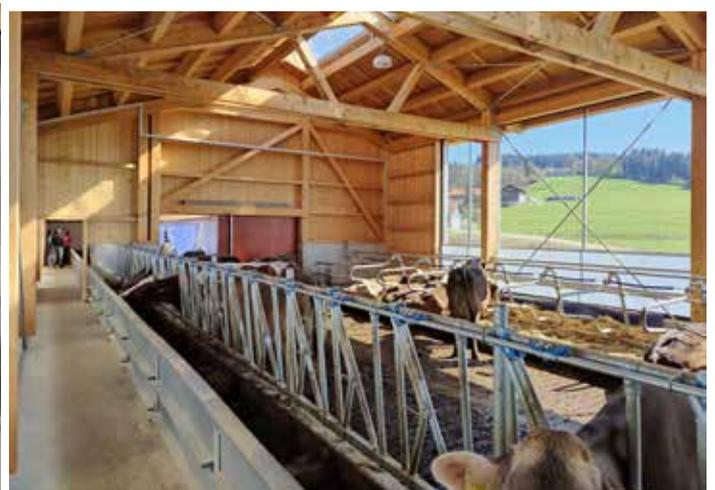


OTHER CONSTRUCTION FUNDAMENTALS

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



CONVERSION BARN PLANS

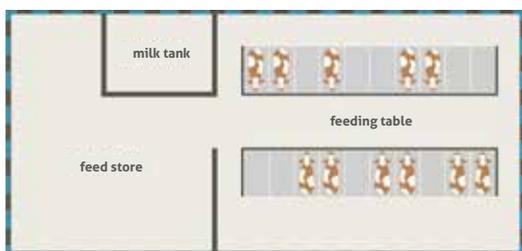
20 cows before

42
Dairy cows

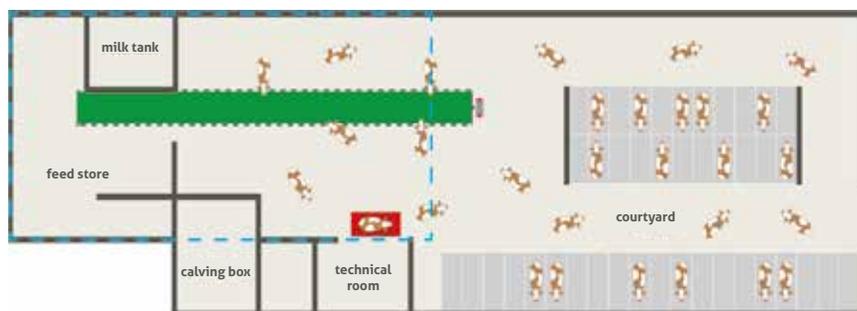
1x
feedstar Basic

24 m
Length

BEFORE



AFTER



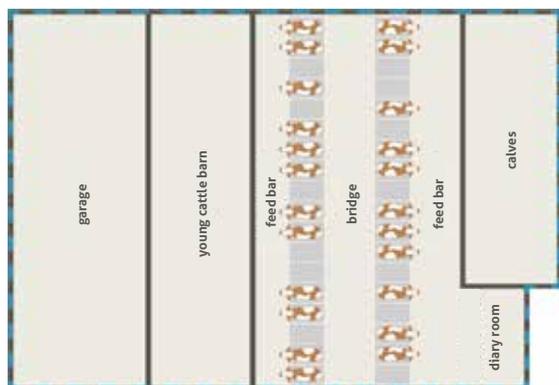
26 cows before

32
Dairy cows

1x
feedstar Vario

32 m
Length

BEFORE



AFTER



CONVERSION PLANS

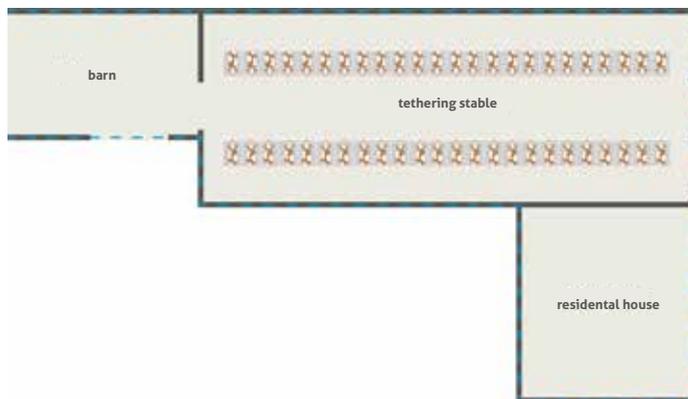
48 cows before

85
Dairy cows

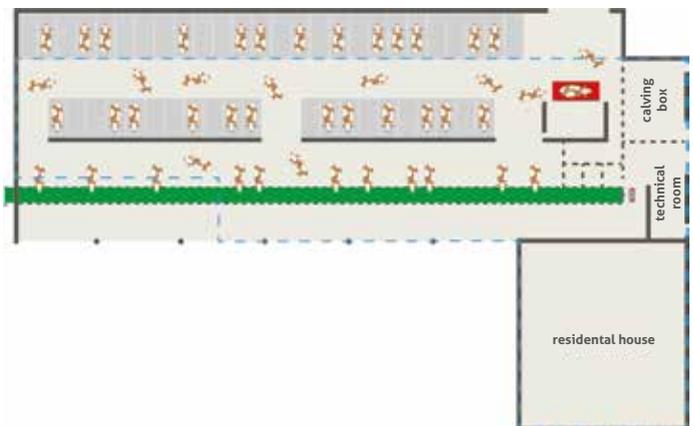
1x
feedstar Pro

43 m
Length

BEFORE



AFTER



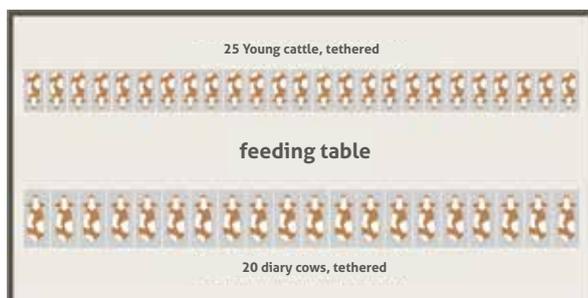
45 cows before

50
Dairy cows

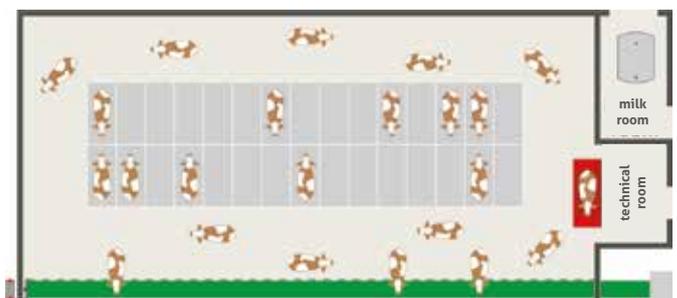
1x
feedstar Vario

30 m
Length

BEFORE

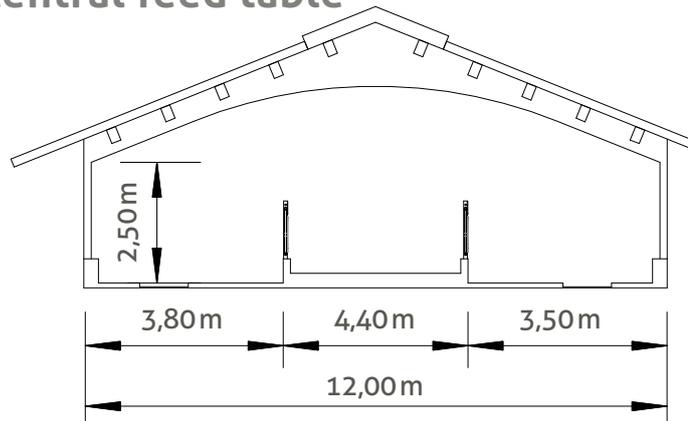


AFTER

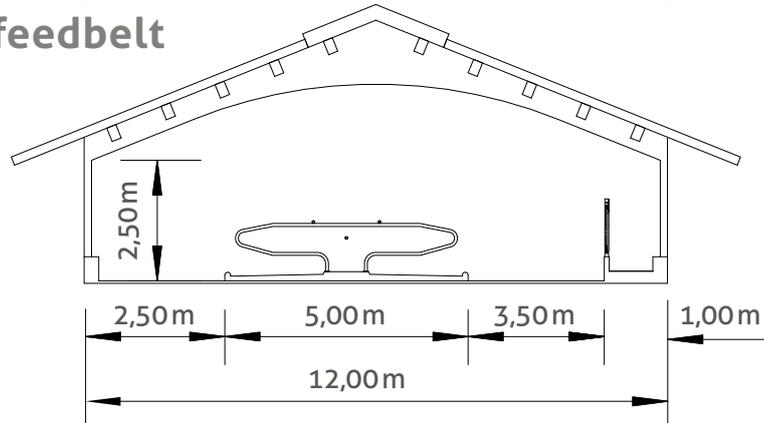


CROSS SECTION COMPARISON FEEDING TABLE VS. FEEDING BELT

Tethered barn with central feed table

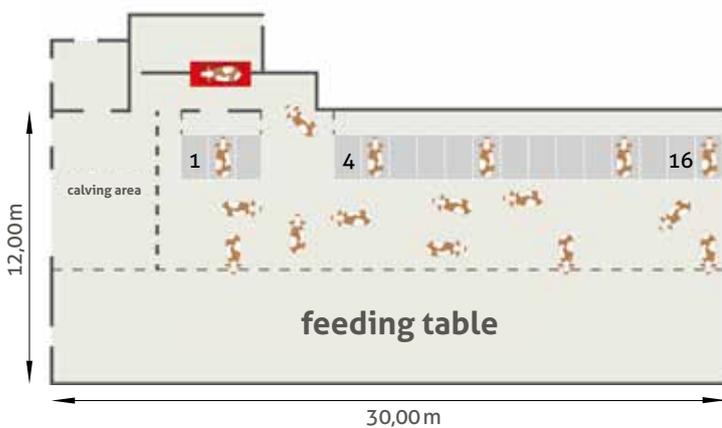


Loose housing with feedbelt

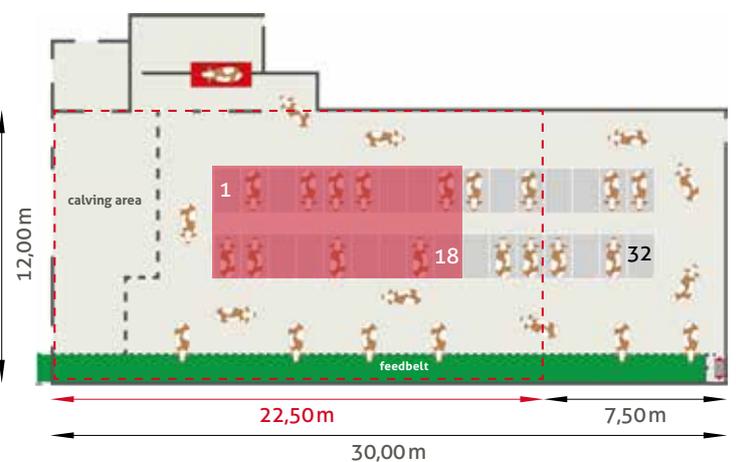


CROSS SECTION COMPARISON FEEDING TABLE VS. FEEDING BELT

Loose housing with feeding table: 17 cubicles



Loose housing with feeding table: 32 cubicles

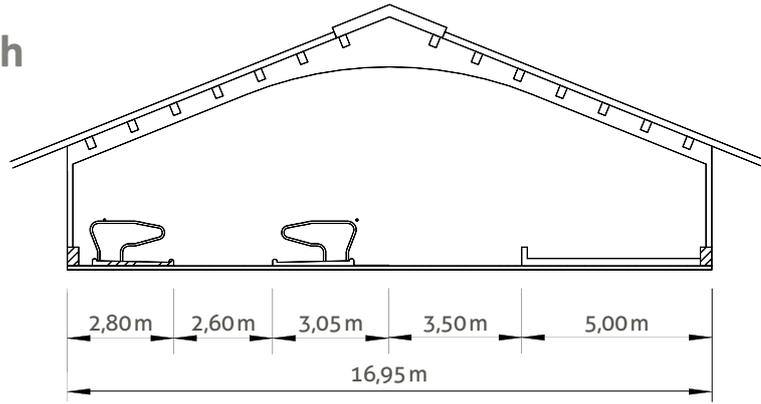


Alternative: Saving 90 m² of enclosed space with the same number of animals (17 cubicles)

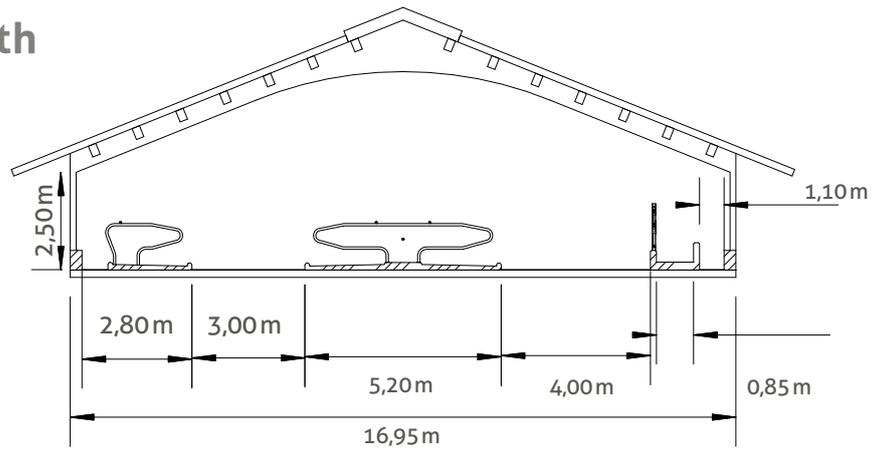
» Corresponds to a saving of 63,000 € (700 €/m² enclosed space)

CROSS SECTION COMPARISON FEEDING TABLE VS. FEEDING BELT

Loose housing with feeding table

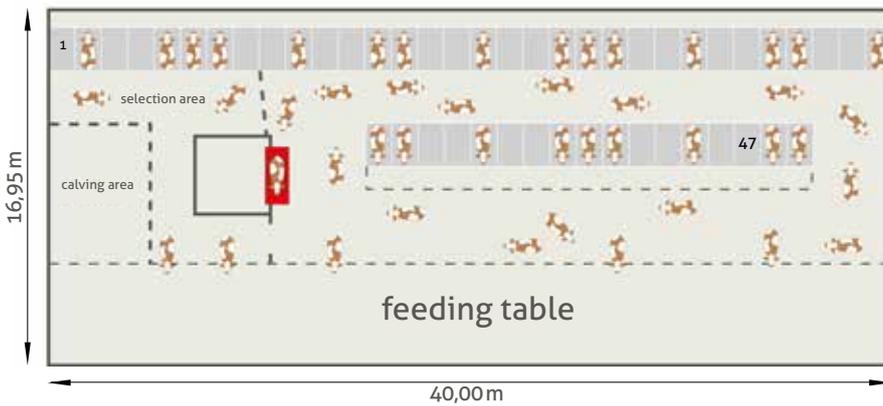


Loose housing with feedbelt

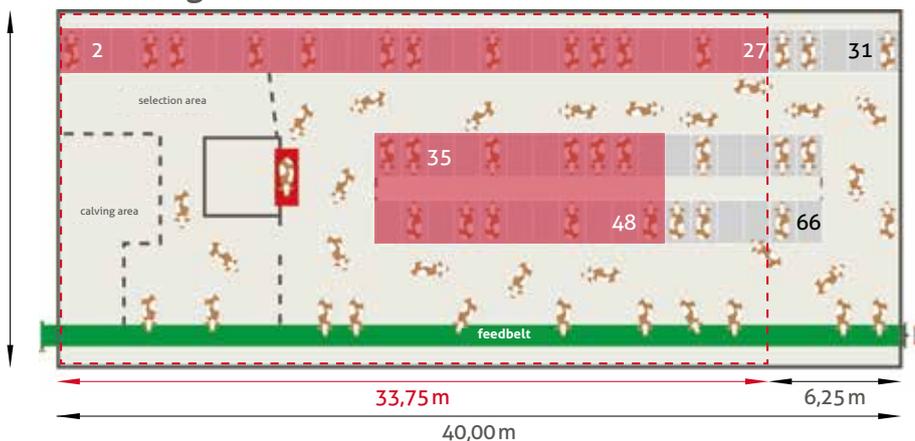


COMPARISON FEEDING TABLE VS. FEEDING BELT

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 m² enclosed space with the same number of animals (49 cubicles)

» Corresponds to a saving of 74.156 € (700 €/m² enclosed space)

REFERENCE FARM

85
Dairy cows

1x
feedstar Pro

43 m
Length

Reference farm of the Seidl family

Cultivation in combination with *feedstar* Pro

Tethered barn with central feed table

This farm was originally equipped with a central feed table, which was accessible by tractor and feed mixer via a barn. The old tethered barn had room for 48 animals of the Simmental breed. It is all year round to 50% grass silage and 50% corn silage. In addition, the animals are fed straw and a cereal mixture with protein components and brewer's grains, as well as mineral feed and cattle salt.

Conversion with *feedstar* the perfect solution

A new building out of place would not have been a satisfactory solution, since one wanted to continue to use the old stable by all means. Therefore, the decision was made to build an extension to the old tethered barn and to completely convert it into an loose housing. The elimination of the feed table and the extension resulted in an additional 32 cubicles.

Save space, work and money with *feedstar*

The 85 cows are now fed fully automatically up to six times a day with an external *feedstar* Pro. Both regular feed pushing and sweeping out of the feed area is completely eliminated with this feeding system.

The repeated feeding also noticeably increases milk yield, which means that the system pays for itself. With this space-saving conversion, it was possible to simultaneously automate feeding with a *feedstar* Pro system and milking with a milking robot, while at the same time massively increasing animal welfare.



REFERENCE FARM

70
Dairy cows

1x
feedstar Pro

30 m
Length

Conversion of the Steiner family

Complete automation with *feedstar* Pro

The complete package to simplify work

The Steiner family was looking for a complete package. In addition to feed pushing and sweeping, they also wanted to automate feeding several times a day. Only our patented *feedstar* feeding system offers this combination.

After intensive planning and advice from our sales consultant and project planner, the Steiner family decided on a *feedstar* Pro. The installation of the 30 m long and 1.5 m wide feedbelt in the existing barn was no problem. Our system always adapts exactly to the conditions.

Perfect solution

Our system was combined with a stationary feed mixer at the Steiner family. With the *feedstar* Pro, the 70 dairy cows are supplied with fresh feed up to six times a day. In addition, the Steiner family runs a milking robot next to our fully automatic feeding system, thus achieving optimal automation in this barn.

With our feeding system, the Steiner family gained many square meters in their barn, because *feedstar* only needs the area that the feedbelt actually needs. Due to the space-saving design and the possibility of feeding from both sides, *feedstar* was the optimal feeding system for the Steiner family.

On request, Mr. Steiner is very satisfied with our system and would use it again at any time.



REFERENCE FARM

120
Goats

1x
feedstar Basic

30 m
Length

Goat farm of the Hauder family

Feeding from both sides with *feedstar* Basic and stationary mixer

Making work easier through conversion

Another great project we would like to present to you is the barn conversion of the Hauder family from Herzogsdorf. They were looking for a feeding system for 120 goats, which would both reduce labor and as well as increase animal welfare.

Even here, after a short research, the customer decided on a *feedstar* Basic, which was combined with a stationary feed mixer. The *feedstar* Basic from the Hauder family has a length of 30 m and a width of 0.8 m. The feed on the feedbelt can be reached by the goats from both sides.

Durability and low maintenance requirements

An important aspect was the durability and low maintenance requirements of the system. Our extremely stable feedbelt is made of food-safe and polyester-reinforced PVC and is resistant to feed acids.

In addition to the many work steps that are eliminated by our system, the Hauder family particularly appreciates the clean and hygienic feed area, as our *feedstar* always transports the residual feed completely out of the barn. *feedstar* is the perfect solution for the 120 goats and the Hauder family can now use the time saved for other tasks.



REFERENCE FARM

65
Dairy cows

1x
feedstar Basic

40 m
Length

Conversion of pigsty into dairy barn

feedstar basic for 65 dairy cows

Individual solution for every situation

Almost three years ago, farmer Christoph K. from Gnarrenburg planned to convert his pigsty into a dairy barn. Since the conversion was to take place in several stages, the possibility of subsequent expansion was a main criterion in the search for a suitable feeding system.

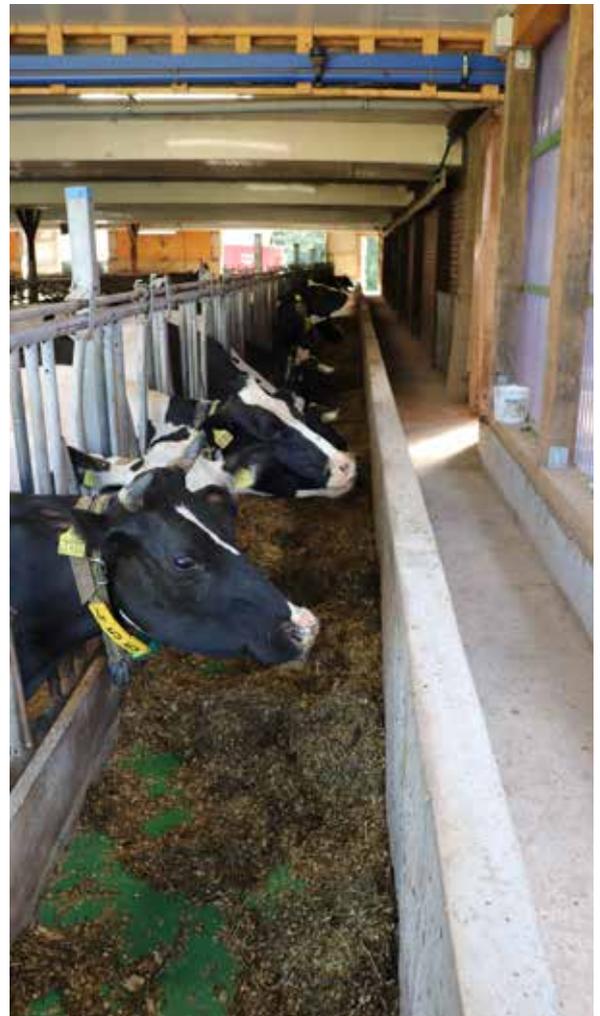
feedstar has a modular design and can therefore convince in terms of flexibility. Our system can be adapted to new barn situations at any time, so Christoph K. decided in favor of a *feedstar* Basic with a length of 40 m long, which can pull a daily feed quantity of over 3.5 tons.

Expandable at any time

In the pig barn, which was rebuilt in 2018, 65 cows currently benefit from a calm and stress-free feeding atmosphere. An extension of the *feedstar* Basic from 40m to up to 50m in length is possible without any problems, by moving the winch by ten meters without much effort. The belt was purchased with a length of 50m.

Mr. K. would also like to equip further upcoming conversions of old barn areas with *feedstar*, as he is very satisfied with the system and it is optimal for the utilization of his existing optimal.

With our patented system, such projects are no problem and very easy to implement. We are already looking forward to the next exciting projects in Gnarrenburg with Mr. K.



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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