

spinder

DAIRY HOUSING CONCEPTS

Eating



March 2021

Product
catalogue

The benefits of comfort



Spinder since 1973

Tjip Spinder started manufacturing and selling dividers and feed fronts in 1973, using the name Spinder Stalinrichting. What started as a metal workshop, quickly became a small factory and eventually grew into Spinder as we know it today: a leading, advanced manufacturing company with a modern range for contemporary dairy farms.

Tjip Spinder was a real all-rounder and expected the same from his employees. "You were given an overall and a task and that was it", says Dick van der Meer, employee since the start and now co-foreman in the assembly department. With the ink barely dry on his technical school diploma, he went to see Tjip Spinder in 1973 to ask if there was work for him and was told he could start immediately. "Tjip set high standards. Not just for commitment and quality, but also for behaviour. But he didn't go easy on himself either. He was the first to arrive at work at six in the morning and he would only go home late at night when his wife decided that enough was enough and came to fetch him. They lived next door to the workshop."

Spinder has always responded to developments in dairy farming. As livestock increased, so did manufacturing and the range changed along with the requirements and insights of farmers. Especially in the 70s and 80s of the last century, the period that farmers opted for cubicle systems en masse, Spinder experienced considerable growth.

Spinder's growth during the early years was mostly thanks to two good friends of Tjip, who both owned a construction company. They were barn builders and introduced Spinder when the barns they built also needed equipment. When son Pieter took the

reins, he made some changes and implemented innovations. This caused a large improvement in efficiency. It was no longer expected that everyone could do 'everything': the work was divided over various departments. After Pieter, who went to Canada to run a farm, Spinder ceased to be a family-run company in 1995 and was taken over by management. The company is still owned by the board.

Production manager Sjouke van der Meer joined Spinder in 1981. Like Dick van der Meer, he has seen many changes within the company: "Highlights, growth, less successful periods, changes to management, product innovation, you name it. But one thing has remained unchanged and that's the commitment of all colleagues to Spinder. Although Spinder hasn't been a family-run business since 1995, it still feels like family here. And just like in 1973, the bar is still set high. Everything that leaves these premises is of absolute top quality. We are proud of that and that's what we work for, together."

In 2017 Spinder acquired the BUC brand, specialist in dual waterbeds.

As market dynamics are demanding Spinder has had a new premises build, fully in operation from 2020.

Eating

- Highline safety feed front 2.1
- Highline safety feed front for heifers / Jersey's 2.4
- Limoline self-locking feed front 2.5
- Baseline self-locking feed front 2.7
- Openline self-locking feed front 2.11
- Tombstone feed front 2.13
- Diagonal feed front 2.15
- Feed front accessories and fittings 2.16



• Safety feed front

• Flap for individual separation



• Lever for central control



Top model safety feed front

A feed front does much more than just giving access to roughage. Spinder's safety feed front was designed with that in mind. The safety feed front offers greater freedom of movement for the cow and ensures peace and quiet during feeding. In addition, a great deal of attention was paid to the safety of animals and humans, operating comfort and efficient working at pairing treatments or individual treatments.

The safety feed front also has a locking system that is fully integrated in the special upper section. The use of high-quality plastics results in a very light selection system, which is just about noiseless. The safety feed front has a multiple operation. All feed openings can be opened and closed together or individually. The operating handle allows you to open and close the feed front (approx. 20 m per lever) in one move. This is particularly an advantage for mechanised feeding techniques. The gate is completely closed for feeding. The gate is opened after feeding. When that happens, the entire group can access the feed at the same time. This will prevent stress in the group.

The Spinder safety feed front has a very large head opening both above and below. In emergency situations, the animals will be able to free themselves via the bottom opening if the upper head opening can no longer be reached. A simple operation makes it possible to put the feed front in this safety or night setting. The bottom head opening can also be opened individually for each cow by means of a handy button operation. The safety feed front also offers the possibility of separating one or more cows easily by means of an additional control flap. By simply flicking this flap above one or several cows, it will be easy to quickly determine which cows to separate from the rest. Using the central operating lever, you can subsequently release all other animals.

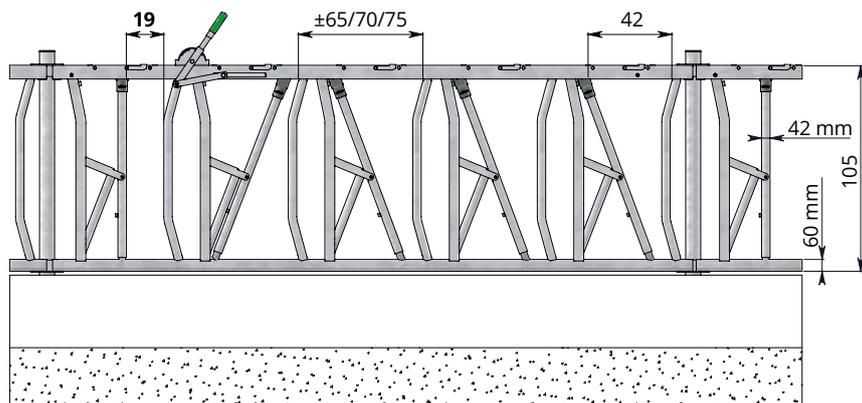
Important features:

- Extremely robust construction;
- Extra large feed opening (42 cm) thanks to a special construction;
- Ear tag friendly;
- Very low noise thanks to the use of sound-absorbing materials;
- Simple operation that requires very little power;
- Open position where the animals can move their heads freely in and out of the feed front;
- Self-locking position where the animals lock themselves in place while eating;
- Closed position, in which the feed front can be completely locked in one move;
- Convenient button operation to individually release the animals;
- Possibility of individual separation;
- Height of the feed front 105 cm.

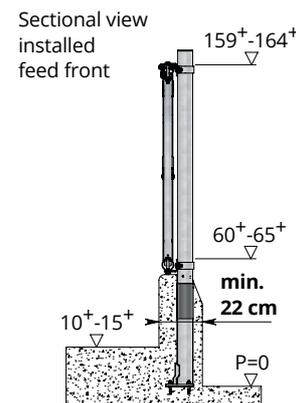
Assembly

The assembly of the safety feed front to the 76 mm support posts is by way of our universal fasteners.

These allow the length of a feed front element to be increased by as much as 5 cm. If not sufficient, longer attachment parts are available from Spinder. By mounting a so-called hinge assembly, any feed front element can be turned into a rotating gate. The locking mechanism of a rotating feed front is operated separately.



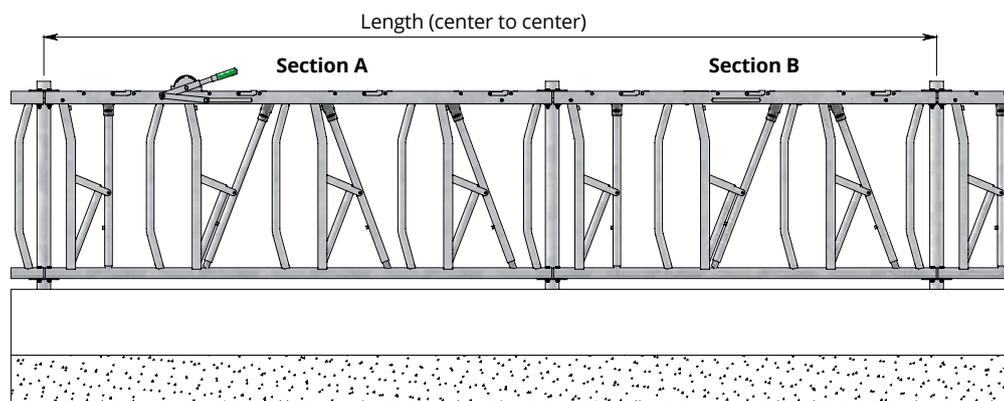
model 24.72



Heavy constructed self-locking safety feed front with the hidden locking mechanism totally integrated in the top railing.

	Length (center to center)	Feeding place width	Fittings
24.72.720 °	495 cm* (7 feed openings)	approx. 70 cm	10.25.200
24.72.620 °	435 cm* (6 feed openings)	approx. 70 cm	11.02.250
24.72.520	355 cm (5 feed openings)	approx. 70 cm	10.26.170
24.72.500	325 cm (5 feed openings)	approx. 65 cm	11.06.250
24.72.440	300 cm (4 feed openings)	approx. 75 cm	02.91.100
24.72.420	283 cm (4 feed openings)	approx. 70 cm	22.92.500
24.72.400	262 cm (4 feed openings)	approx. 65 cm	24.72.080
24.72.340	225 cm (3 feed openings)	approx. 75 cm	02.90.880
24.72.320	214 cm (3 feed openings)	approx. 70 cm	02.90.975
24.72.300	199 cm (3 feed openings)	approx. 65 cm	
24.72.240	150 cm (2 feed openings)	approx. 75 cm	
24.72.200	136 cm (2 feed openings)	approx. 65 cm	

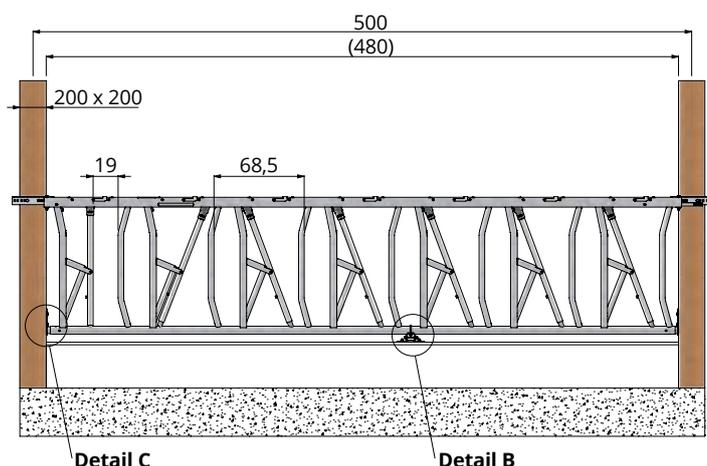
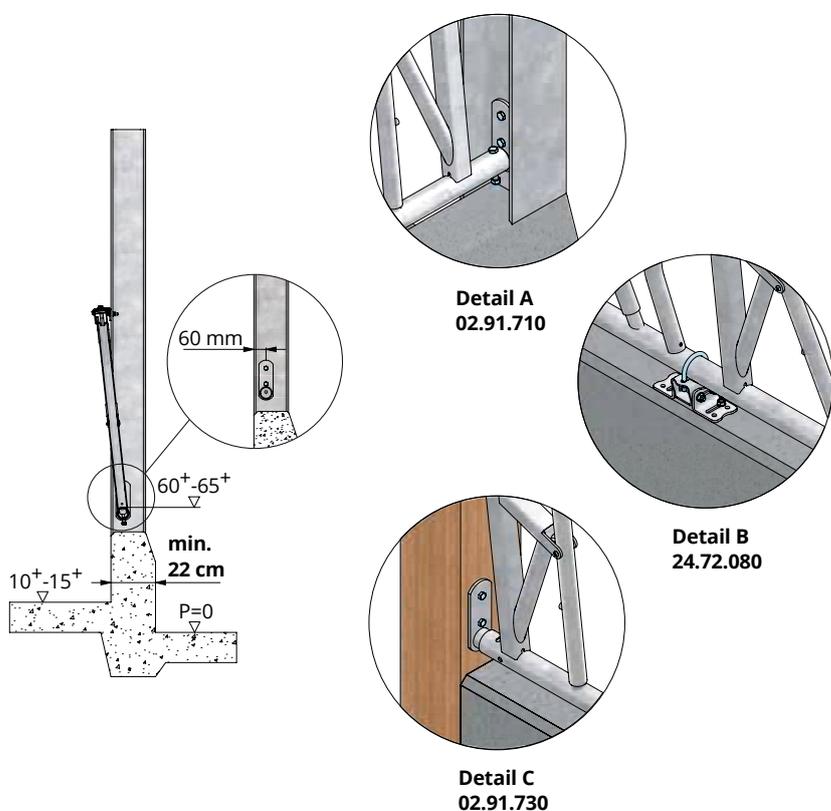
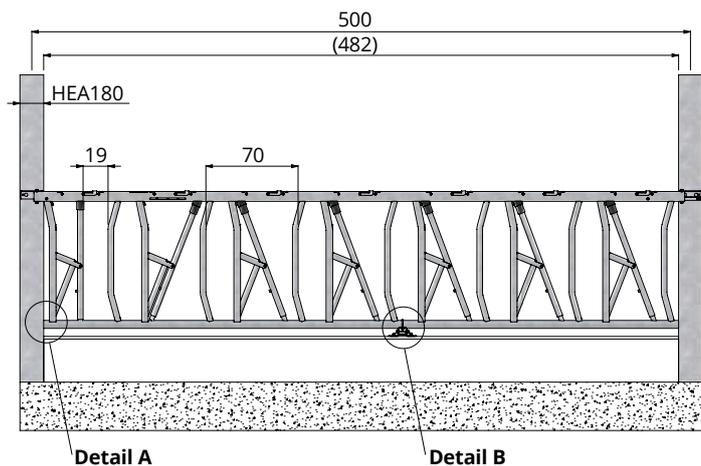
* An extra support post needs to be placed per element.
 Assembly drawing on application. In case the feed front is suspended slightly tilted forward (approx. 15 cm), it is sufficient to attach a centre fastening (24.72.080) to the lower bar instead of a support post.
 ° Item numbers 24.72.720 and 24.72.620 are not stock items. Produced to order.



Almost all clearances of over 3.55 meters between posts, can be filled with a combination of the above mentioned standard feed fronts. The following table shows solutions for some frequent situations. The combination of a standard feed front and the correct feed front fastener leads almost always to a solution for clearances up to 3.55 mtr.

Length (center to center)	Section A	Section B	Feed front fasteners
600 cm (9 feed openings)	(325 cm) 24.72.500	(262 cm) 24.72.400	02.91.200 (5 - 10 cm) *
500 cm (7 feed openings)	(495 cm) 24.72.720	-	02.91.100 (0 - 5 cm)
500 cm (7 feed openings)	(283 cm) 24.72.420	(214 cm) 24.72.320	02.91.100 (0 - 5 cm)
475 cm (7 feed openings)	(262 cm) 24.72.400	(199 cm) 24.72.300	02.91.200 (5 - 10 cm) *
450 cm (6 feed openings)	(435 cm) 24.72.620	-	02.91.300 (10-20 cm) *
450 cm (6 feed openings)	(225 cm) 24.72.340	(225 cm) 24.72.340	02.91.100 (0 - 5 cm)
440 cm (6 feed openings)	(435 cm) 24.72.620	-	02.91.100 (0 - 5 cm)

* For feed front fasteners of 5-10 cm and 10-20 cm, longer connecting strips need to be ordered.



On this page we present two solutions for the installation of Highline feed fronts to support columns measuring 5.00 m centre-to-centre. The choice was made to attach it to HEA180 posts or to square (wooden) columns 200 mm.

Points of departure:

- The feed front is suspended slightly tilted forward. It means that the upper section is mounted at the front of the columns/support posts and that the lower bar is mounted between the columns/support posts;
- It is not necessary to install a centre support post for a forward leaning feed fence;
- Using a centre fastening, the lower bar must be attached to the concrete wall below the feed front. This is to prevent the long feed front from bending.

HEA180 support posts, centre-to-centre 5.00 m.

- In this situation, the 495 cm long Highline safety feed front 24.72.720 can be used. Feeding place width 70 cm.

24.72.720 Safety feed front 70/105 x 495 cm
7 feed openings

Fittings:

02.91.010 Corner piece of feed front fastener, top, 0-5 cm (one for each column)

02.91.710 Set of feed front fasteners for 60 mm lower bar between columns/support posts (one set for each feed front), including the required bolts and nuts.

24.72.080 Centre fastening 60 mm lower bar on concrete wall, incl. anchor bolts.

Square 200 mm columns (wood), centre-to-centre 5.00 m.

- In this situation, the 485 cm long Highline safety feed front 24.72.780 must be used. **Feeding place width 68.5 cm.**
- The lower bar of the feed front must be shortened during assembly to make it fit between the columns, depending on the dimensions of the columns and the actual centre-to-centre width.

24.72.780 Safety feed front 68,5/105 x 485 cm
7 feed openings

Fittings:

02.91.030 Corner piece of feed front fastener, top, 10-20 cm (one for each column)

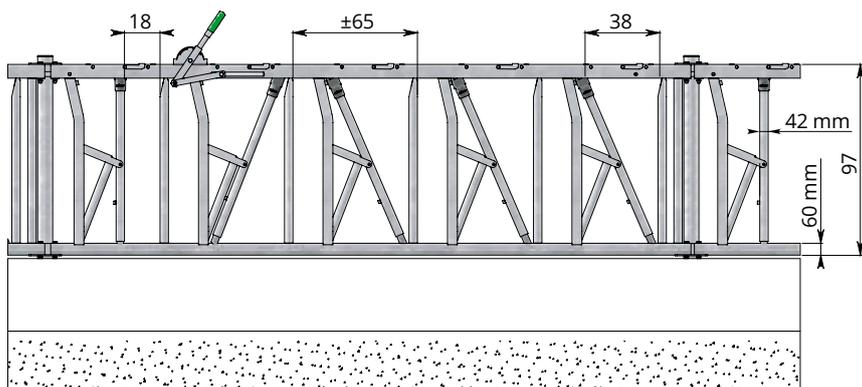
24.72.031 Connector strip for safety feed front 9-19 cm

02.91.730 Set of feed front fasteners for 60 mm lower bar between columns/support posts (one set for each feed front), incl. coach screws.

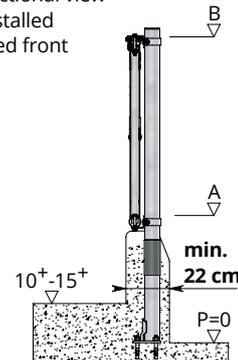
24.72.080 Centre fastening 60 mm lower bar on concrete wall, incl. anchor bolts.

Other situations:

- If regulations exclude the use of feed fronts with an exact feeding place width of 68.5 cm and prescribe a width of at least 70 cm, it is still possible to install the complete 495 cm long feed front in front of the support posts in the situation of square 200 mm - 5.00 m centre-to-centre. In this situation (the feed front is in the upright position), a centre support post must be put in place to secure the stability of the fence.
- The method of assembly of long feed fronts shown on this page can also be used for other feed front and column/support post sizes. If necessary, we offer technical support in drawing projects and checks for completeness.



Sectional view installed feed front

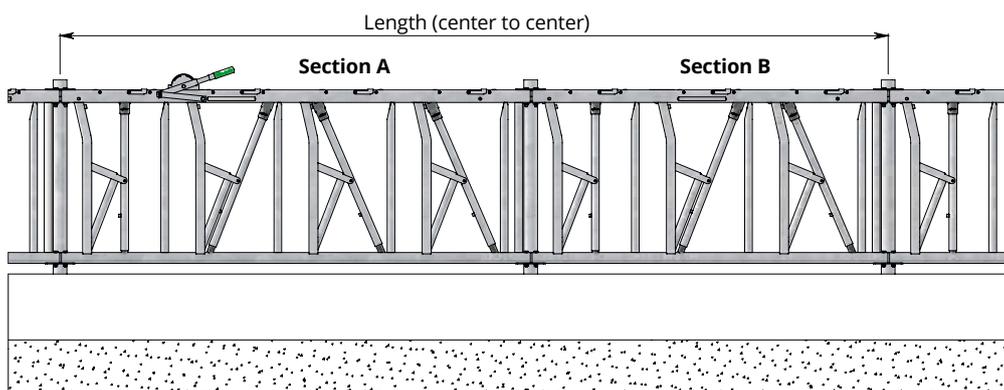


Age	Size A	Size B
Heifers	54 ⁺ -59 ⁺	145 ⁺ -150 ⁺
Jersey's	34 ⁺ -39 ⁺	125 ⁺ -130 ⁺

Heavy constructed self-locking safety feed front with the hidden locking mechanism totally integrated in the top railing.

	Length (center to center)	Feeding place width
24.73.500	325 cm (5 feed openings)	approx. 65 cm
24.73.400	262 cm (4 feed openings)	approx. 65 cm
24.73.300	199 cm (3 feed openings)	approx. 65 cm
24.73.200	136 cm (2 feed openings)	approx. 65 cm

	Fittings
10.25.180	Support post 76 mm x 180 cm
11.02.250	Plastic protective sleeve 76 mm
10.26.160	Floor-mounted support post 76 mm x 160 cm
11.06.250	Stopper 76 mm
02.91.100	Set of feed front fasteners 76 mm
22.92.500	Operating handle
02.90.880	Hinge assembly for gate
02.90.975	Castor wheel (for gates longer than 2 m)



Almost all clearances of over 3.25 meters between posts, can be filled with a combination of the above mentioned standard feed fronts. The following table shows solutions for some frequent situations. The combination of a standard feed front and the correct feed front fastener leads almost always to a solution for clearances up to 3.25 mtr.

Length (center to center)	Section A	Section B	Feed front fasteners
600 cm (9 feed openings)	(325 cm) 24.73.500	(262 cm) 24.73.400	02.91.200 (5 - 10 cm) *
475 cm (7 feed openings)	(262 cm) 24.73.400	(199 cm) 24.73.300	02.91.200 (5 - 10 cm) *

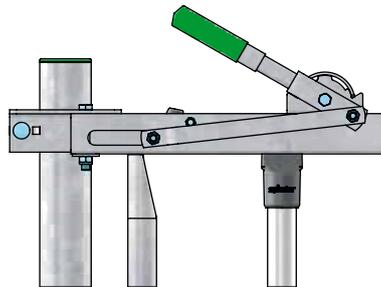
* For feed front fasteners of 5-10 cm and 10-20 cm, longer connecting strips need to be ordered.



- Heavy duty self-locking feed front for large stock Limo.



- Individually unlocking via pushbutton control.



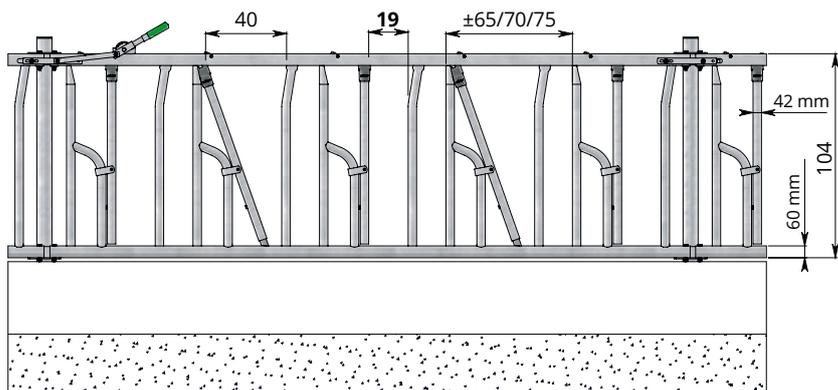
- A self-locking feed front with a length of up to 30 m can be operated with one handle.

Self-closing feed front heavy model Limo

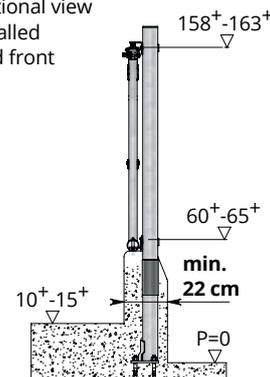
The Limoline is the heavier and raised version of the Baseline self-locking feed front. The spacious 40 cm head opening and a height of 104 cm make this feed front suitable for today's large cows. This feed front is also fitted with the Spinder 'hidden locking mechanism' system in which the operating parts are integrated in the upper section. The push button for releasing the locked-in cow sticks out from the top of the profile. This allows the animals to be unlocked by way of a simple hand movement.

Important features:

- Available in feeding place widths of 65, 70 and 75 cm;
- Large, 40 cm head opening;
- Height 104 cm;
- Great catching performance thanks to the light-acting catching system;
- Locked-in animals cannot free themselves;
- The use of high-quality plastics results in a just about noiseless feed front;
- Collars cannot hook up because the catching bar is closed by means of a sliding end-piece;
- The central operating handle allows you to open or close up to 30 m feed front in one move.
- The central operating handle can be used to set the entire feed front in the locking position;
- When closed, it will be possible to release the individual animals with a simple push of a button;
- The central operating handle can be used to release all animals in one move;
- Using the optional Indivast locking mechanism, the animals can be individually secured in the feed front.
- Ear tag friendly;
- By mounting a hinge assembly, any feed front element can be turned into a rotating gate. The locking mechanism of a rotating gate is operated separately.



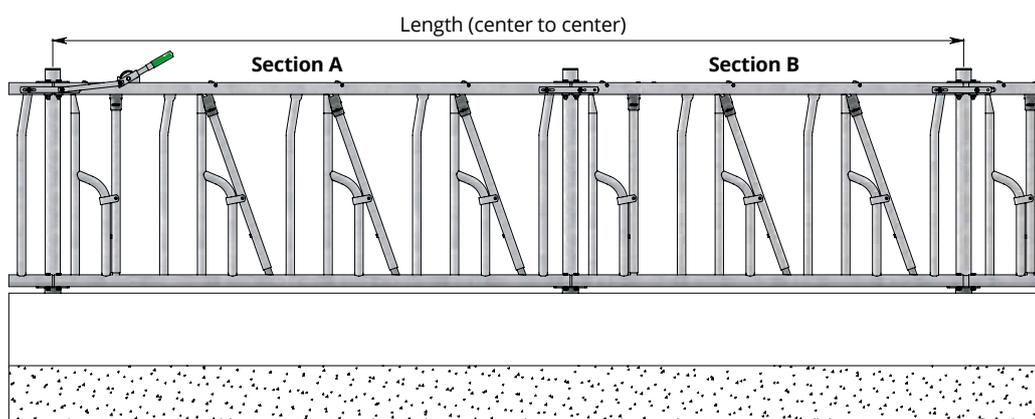
Sectional view installed feed front



Heavy constructed self-locking feed front with the hidden locking mechanism totally integrated in the top railing.

	Length (center to center)	Feeding place width		Fittings
24.66.720 °	495 cm* (7 feed openings)	approx. 70 cm	10.25.200	Support post 76 mm x 200 cm
24.66.620 °	435 cm* (6 feed openings)	approx. 70 cm	11.02.250	Plastic protective sleeve 76 mm
24.66.520	355 cm (5 feed openings)	approx. 70 cm	10.26.170	Floor-mounted support post 76 mm x 170 cm
24.66.500	325 cm (5 feed openings)	approx. 65 cm	11.06.250	Stopper 76 mm
24.66.440	300 cm (4 feed openings)	approx. 75 cm	02.91.100	Set of feed front fasteners 76 mm
24.66.420	283 cm (4 feed openings)	approx. 70 cm	22.92.680	Operating handle
24.66.400	262 cm (4 feed openings)	approx. 65 cm	24.72.080	Centre fastening 60 mm lower bar on concrete wall; including anchor bolts.
24.66.340	225 cm (3 feed openings)	approx. 75 cm	02.90.585	Hinge assembly for gate
24.66.320	214 cm (3 feed openings)	approx. 70 cm	02.90.960	Castor wheel (for gates longer than 2 m)
24.66.300	199 cm (3 feed openings)	approx. 65 cm		
24.66.240	150 cm (2 feed openings)	approx. 75 cm		
24.66.200	136 cm (2 feed openings)	approx. 65 cm		

* An extra support post needs to be placed per element. Assembly drawing on application. In case the feed front is suspended slightly tilted forward (approx. 15 cm), it is sufficient to attach a centre fastening (24.72.080) to the lower bar instead of a support post.
 ° Item numbers 24.66.720 and 24.66.620 are not stock items. Produced to order.



Almost all clearances of over 3.55 meters between posts, can be filled with a combination of the above mentioned standard feed fronts. The following table shows solutions for some frequent situations. The combination of a standard feed front and the correct feed front fastener leads almost always to a solution for clearances up to 3.55 mtr.

Length (center to center)	Section A	Section B	Feed front fasteners
600 cm (9 feed openings)	(325 cm) 24.66.500	(262 cm) 24.66.400	02.91.200 (5 - 10 cm) *
500 cm (7 feed openings)	(495 cm) 24.66.720	-	02.91.100 (0 - 5 cm)
500 cm (7 feed openings)	(283 cm) 24.66.420	(214 cm) 24.66.320	02.91.100 (0 - 5 cm)
475 cm (7 feed openings)	(262 cm) 24.66.400	(199 cm) 24.66.300	02.91.200 (5 - 10 cm) *
450 cm (6 feed openings)	(435 cm) 24.66.620	-	02.91.300 (10-20 cm) *
450 cm (6 feed openings)	(225 cm) 24.66.340	(225 cm) 24.66.340	02.91.100 (0 - 5 cm)
440 cm (6 feed openings)	(435 cm) 24.66.620	-	02.91.100 (0 - 5 cm)

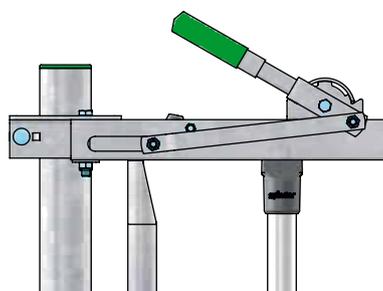
* For feed front fasteners of 5-10 cm and 10-20 cm, longer connecting strips need to be ordered.



- Self-locking feed front for large stock.



- Individually unlocking via pushbutton control.



- A self-locking feed front with a length of up to 30 m can be operated with one handle.

Baseline self-locking feed fronts

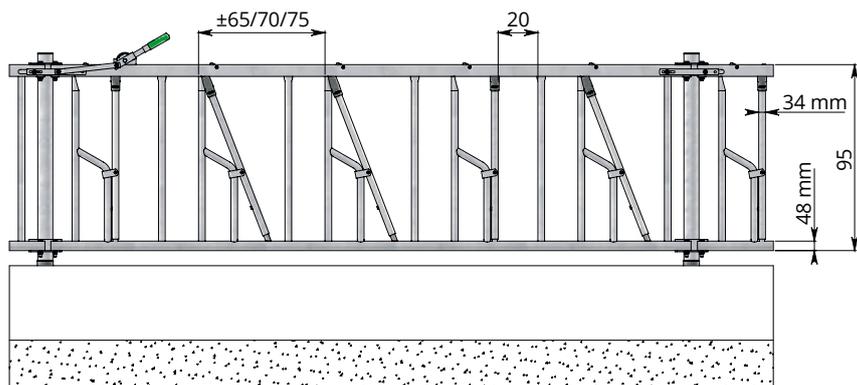
Simple but strong, these are the Baseline self-locking feed fronts. Fitted with the closed upper section with hidden locking mechanism, as is a characteristic feature of Spinder. Only the push button for releasing the locked-in cow sticks out from the top of the profile. No parts where collars can be caught!

Available for large stock as well as for heifers, young stock and calves. Various feed place widths and matching heights. This allows the animals to get used to the feed front from an early age. Fitted with the Spinder plastic movable bar stopper; nice and quiet, and with a drop pin in the catching bar to prevent catching of the collars.

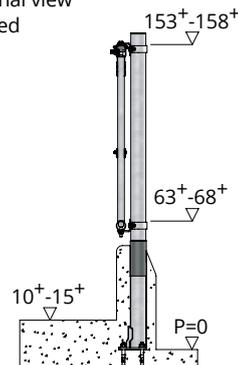
Important features:

- The central operating handle allows you to open or close up to 30 m feed front in one move.
- The central operating handle can be used to set the entire feed fence in the locking position;
- Great catching performance thanks to the light-acting locking mechanism;
- The animals are unable to release themselves since the locking mechanism is entirely hidden in the upper section;
- When closed, it will be possible to release the individual animals with a simple push of a button;
- The central operating handle can be used to release all animals in one move;
- Using the optional Indivast locking mechanism, the animals can be individually secured in the feed front;
- Ear tag friendly.

Animal type	Cows	Heifers		Young heifers	Calves
age	from 18 months	approx. 9 to 18 months		approx. 3 to 9 months	till approx. 3 months
feeding place width	65, 70, 75 cm	55 cm	55 cm	45 cm	35 cm
neck width	20 cm	18 cm			
adjustable neck width			15 cm	10 cm	8 cm

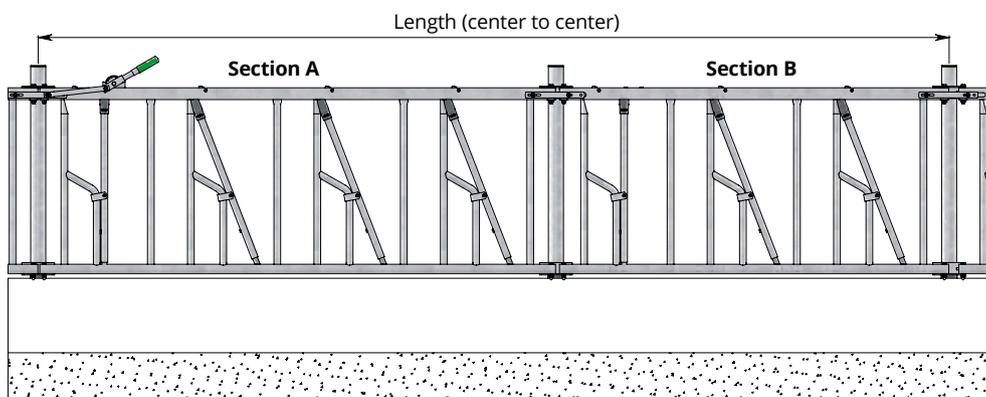


Sectional view installed front



	Length (center to center)	Feeding place width
24.61.500	325 cm (5 feed openings)	approx. 65 cm
24.61.440	300 cm (4 feed openings)	approx. 75 cm
24.61.420	282 cm (4 feed openings)	approx. 70 cm
24.61.400	262 cm (4 feed openings)	approx. 65 cm
24.61.360	248 cm (4 feed openings)	approx. 65 cm
24.61.340	225 cm (3 feed openings)	approx. 75 cm
24.61.320	214 cm (3 feed openings)	approx. 70 cm
24.61.300	198 cm (3 feed openings)	approx. 65 cm
24.61.260	184 cm (3 feed openings)	approx. 65 cm
24.61.240	150 cm (2 feed openings)	approx. 75 cm
24.61.200	134 cm (2 feed openings)	approx. 65 cm

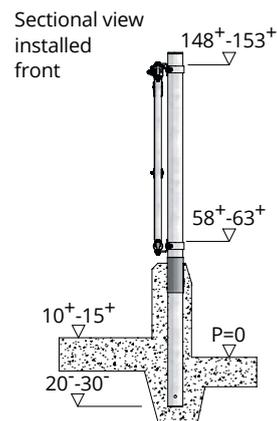
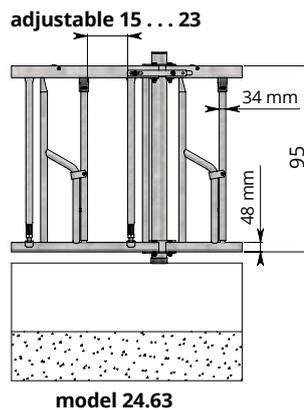
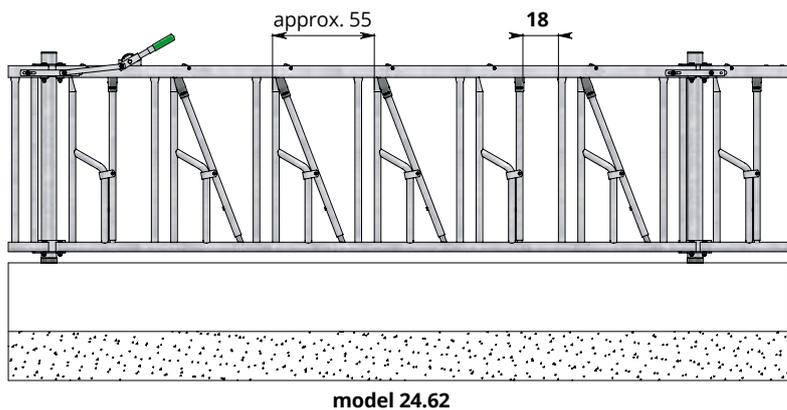
	Fittings
10.25.180	Support post 76 mm x 180 cm
11.02.250	Plastic protective sleeve 76 mm
10.26.160	Floor-mounted support post 76 mm x 160 cm
11.06.250	Stopper 76 mm
02.91.100	Set of feed front fasteners 76 mm
22.92.680	Operating handle
02.90.285	Hinge assembly for gate
02.90.950	Castor wheel (for gates longer than 2 m)



Almost all clearances of over 3.25 meters between posts, can be filled with a combination of the above mentioned standard feed fronts. The following table shows solutions for some frequent situations. The combination of a standard feed front and the correct feed front fastener leads almost always to a solution for clearances up to 3.25 mtr.

Length (center to center)	Section A	Section B	Feed front fasteners
600 cm (9 feed openings)	(325 cm) 24.61.500	(262 cm) 24.61.400	02.91.200 (5-10 cm) *
500 cm (8 feed openings)	(248 cm) 24.61.360	(248 cm) 24.61.360	02.91.100 (0 - 5 cm)
500 cm (7 feed openings)	(282 cm) 24.61.420	(214 cm) 24.61.320	02.91.100 (0 - 5 cm)
475 cm (7 feed openings)	(262 cm) 24.61.400	(198 cm) 24.61.300	02.91.200 (5-10 cm) *
450 cm (7 feed openings)	(248 cm) 24.61.360	(198 cm) 24.61.300	02.91.100 (0 - 5 cm)
450 cm (6 feed openings)	(225 cm) 24.61.340	(225 cm) 24.61.340	02.91.100 (0 - 5 cm)
440 cm (7 feed openings)	(248 cm) 24.61.360	(184 cm) 24.61.260	02.91.100 (0 - 5 cm)

* For feed front fasteners of 5-10 cm and 10-20 cm, longer connecting strips need to be ordered.



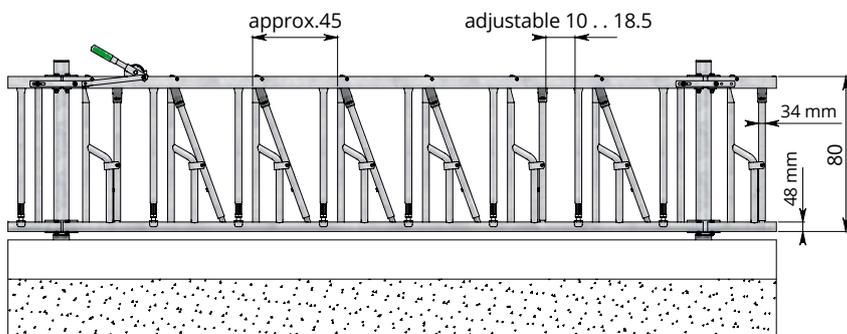
The feeding place width is 55 cm; ages from approx. 9 to 18 months.
For heifers from 18 months we recommend the self-locking feed front for cows.

		Length (center to center)
24.62.500	24.63.500	325 cm (6 feed openings)
24.62.400	24.63.400	274 cm (5 feed openings)
24.62.300	24.63.300	219 cm (4 feed openings)
24.62.200	24.63.200	171 cm (3 feed openings)
24.62.100	24.63.100	119 cm (2 feed openings)

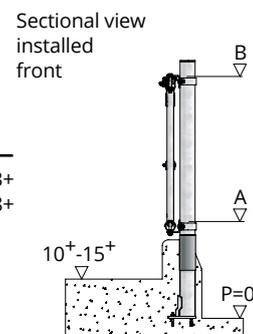
Length (center to center)	Feed front fasteners
450 cm (8 feed openings)	24.62.300 + 24.62.300 02.91.200 (5-10 cm) *
440 cm (8 feed openings)	24.62.300 + 24.62.300 02.91.100 (0 - 5 cm)

		Fittings
10.25.180		Support post 76 mm x 180 cm
11.02.250		Plastic protective sleeve 76 mm
10.26.160		Floor-mounted support post 76 mm x 160 cm
11.06.250		Stopper 76 mm
02.91.100		Set of feed front fasteners 76 mm
22.92.680		Operating handle
02.90.285		Hinge assembly for gate
02.90.950		Castor wheel (for gates longer than 2 m)

* For feed front fasteners of 5-10 cm and 10-20 cm, longer connecting strips need to be ordered.



Age	Size A	Size B
up to 6 months	43+-48+	118+-123+
6-10 months	48+-53+	123+-128+



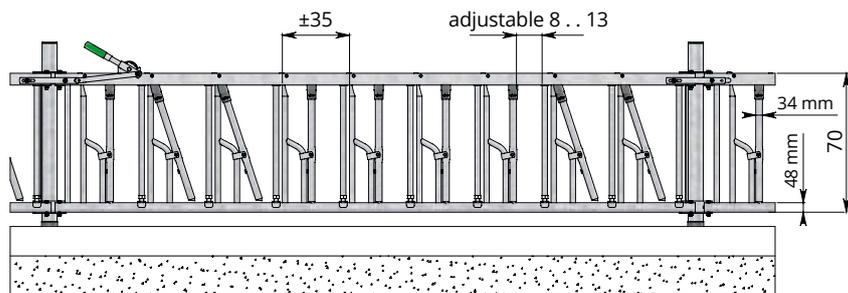
The feeding place width is 45 cm per animal; ages from approx. 3 to 9 months. Neck width adjustable from 10 to 18.5 cm.

		Length (center to center)
24.64.500		325 cm (7 feed openings)
24.64.400		282 cm (6 feed openings)
24.64.360		239 cm (5 feed openings)
24.64.300		196 cm (4 feed openings)
24.64.260		153 cm (3 feed openings)
24.64.200		110 cm (2 feed openings)

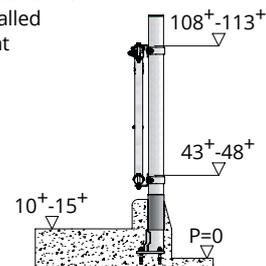
Length (center to center)	Feed front fasteners
450 cm (9 feed openings)	24.64.360 + 24.64.300 02.91.200 (5-10 cm) *
440 cm (9 feed openings)	24.64.360 + 24.64.300 02.91.100 (0 - 5 cm)

		Fittings
10.25.160		Support post 76 mm x 160 cm
11.02.250		Plastic protective sleeve 76 mm
10.26.130		Floor-mounted support post 76 mm x 130 cm
11.06.250		Stopper 76 mm
02.91.100		Set of feed front fasteners 76 mm
22.92.680		Operating handle
02.90.285		Hinge assembly for gate
02.90.950		Castor wheel (for gates longer than 2 m)

* For feed front fasteners of 5-10 cm and 10-20 cm, longer connecting strips need to be ordered.



Sectional view installed front



The feeding place width is 35 cm per calf; aged up to approx. 3 months. Neck width adjustable from 8 to 13 cm.

	Length (center to center)	
24.65.500	325 cm	(9 feed openings)
24.65.400	289 cm	(8 feed openings)
24.65.360	256 cm	(7 feed openings)
24.65.300	222 cm	(6 feed openings)
24.65.200	188 cm	(5 feed openings)
24.65.100	120 cm	(3 feed openings)

	Fittings
10.25.160	Support post 76 mm x 160 cm
11.02.250	Plastic protective sleeve 76 mm
10.26.120	Floor-mounted support post 76 mm x 120 cm
11.06.250	Stopper 76 mm
02.91.100	Set of feed front fasteners 76 mm
22.92.680	Operating handle
02.90.285	Hinge assembly for gate
02.90.950	Castor wheel (for gates longer than 2 m)



- Openline safety feed front Rubos.



- Openline Swedish feed front

Openline self-locking feed fronts

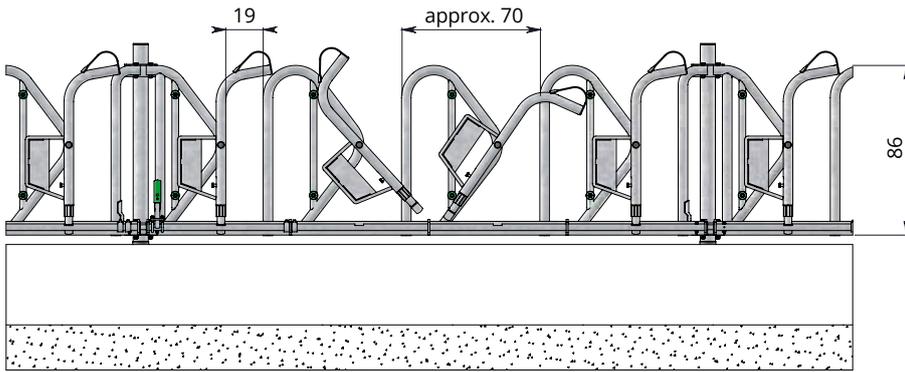
As the word 'Openline' suggests, these are feed fronts with an open top; the head goes in from the top. These are the Swedish feed fronts that have been known for many years. Ideal for animals with horns.

All Openline feed fronts are self-locking with central controls and have an enlarged movable bar to prevent collars from being caught.

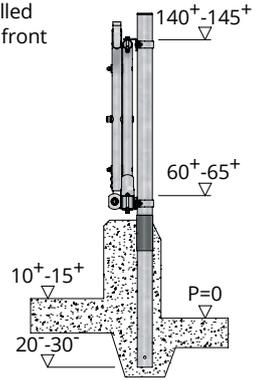
Based on the demand for a more robust and larger version, Spinder developed this type of fence into the heavy Rubos version; with built-in safety function and silencer. The feed opening width is 70 cm to suit large cows.

The operating modes of the feed front:

- Opened position; the animals can freely move their heads in and out of the feed front;
- From a central point, setting the feed front on self-locking to make the animals lock up themselves as soon as they start feeding;
- Centrally releasing all positions;
- Individually releasing an animal by sliding up a drop pin into the movable bar;
- For Rubos only: individually releasing an animal from the safety opening (bottom opening) by sliding up a drop pin into the movable bar.



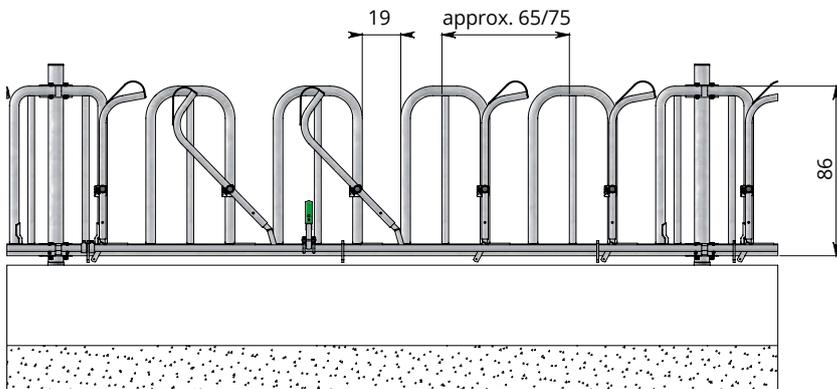
Sectional view installed feed front



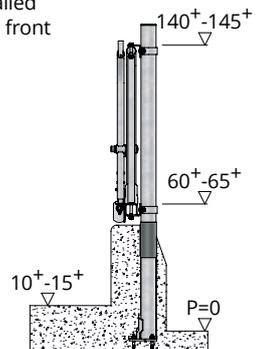
	Length (center to center)	Feeding place width
02.30.500	355 cm* (5 feed openings)	approx. 70 cm
02.30.400	285 cm (4 feed openings)	approx. 70 cm
02.30.300	215 cm° (3 feed openings)	approx. 70 cm
02.30.200	145 cm° (2 feed openings)	approx. 70 cm

* An extra support post needs to be placed per element.
 Assembly drawing on application.
 ° Can be used as a gate.

	Fittings
10.25.180	Support post 76 mm x 180 cm
11.02.250	Plastic protective sleeve 76 mm
10.26.160	Floor-mounted support post 76 mm x 160 cm
11.06.250	Stopper 76 mm
02.91.100	Set of feed front fasteners 76 mm
02.92.100	Operating handle
02.90.305	Hinge assembly for gate



Sectional view installed feed front



Age approx. 22 months and up. Neck width 19 cm.

	Length (center to center)	Feeding place width
02.32.500	325 cm (5 feed openings)	approx. 65 cm
02.32.400	261 cm (4 feed openings)	approx. 65 cm
02.32.360	250 cm (4 feed openings)	approx. 65 cm
02.32.300	196 cm (3 feed openings)	approx. 65 cm
02.32.260	180 cm (3 feed openings)	approx. 65 cm

	Fittings
10.25.180	Support post 76 mm x 180 cm
11.02.250	Plastic protective sleeve 76 mm
10.26.160	Floor-mounted support post 76 mm x 160 cm
11.06.250	Stopper 76 mm
02.91.100	Set of feed front fasteners 76 mm
02.92.100	Operating handle
02.90.380	Hinge assembly for gate
02.90.950	Castor wheel (for gates longer than 2 m)

	Length (center to center)	Feeding place width
02.33.400	300 cm (4 feed openings)	approx. 75 cm
02.33.320	250 cm (3 feed openings)	approx. 75 cm
02.33.300	225 cm (3 feed openings)	approx. 75 cm
02.33.200	150 cm (2 feed openings)	approx. 75 cm



Tombstone feed front

Spinder has expended its program with a new feed front. This tombstone feed front replaces the well-known diagonal model and is available for all age groups, from calves to mature cows. The design of the Spinder tombstone feed front has several advantages above the diagonal feed front or a simple tubing feed front. Here calves can learn, on a very early age, how to deal with a (self-locking) feed front; to lift up their heads to move through the feed front to eat. While eating this feed front provides for a wide enough feeding place; each age category has the right feeding width. This prevents pushing and shoving, so the animals can eat in peace.

Major characteristics:

- Large head opening, also appropriate for horned cattle;
- Available for two week old calves to mature cows;
- Less pushing and shoving, the animals can eat in peace;
- Neck collar friendly;
- Less waste of feed; animals do not retract to chew;
- Cost-effective feed front;
- No pressure points on neck as with a tubing feed front;

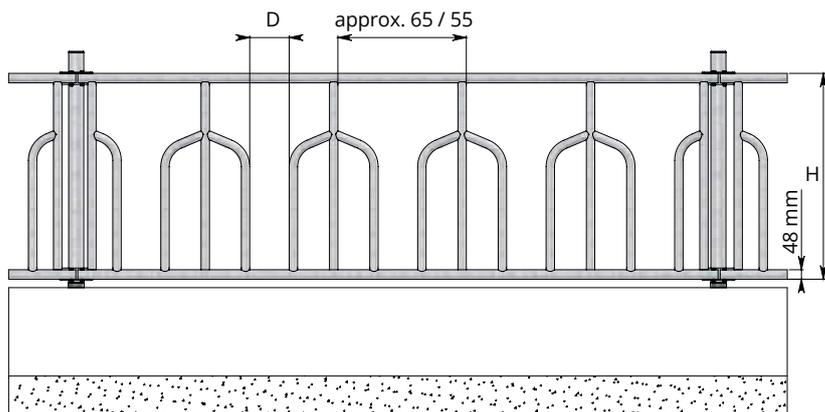
Dimensions

The tombstone feed front is available for all age groups, from two week old calves to mature cows. The standard length of one section is 325 cm. Several smaller sections are available to match, size depending on number and width of the feeding places.

Mounting

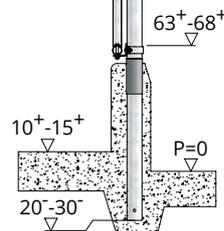
The tombstone feed front is mounted to 76 mm support posts with our universal fasteners. This way it is possible to extend a feed front section by 5 cm. If this proves insufficient, longer feed front fasteners are available.

By installing a so called hinge assembly every section can be turned into a gate.



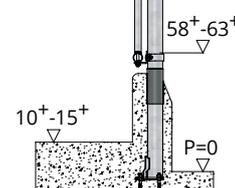
Sectional view installed feed front

Cows from 18 months



Sectional view installed feed front

Young stock 10-18 months

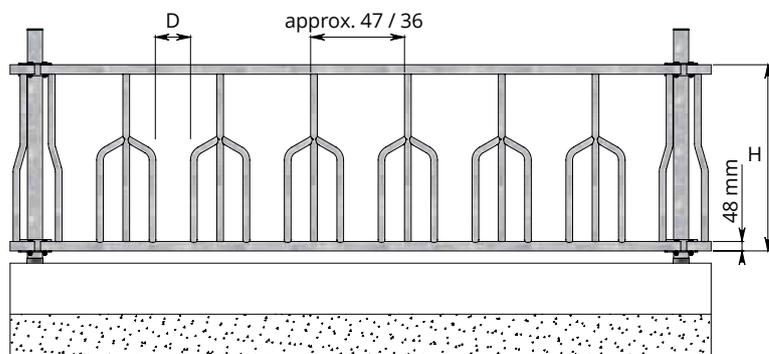


Tombstone feed front for cows and young stock.

Cows, D=20 cm, H=105 cm, Length (center to center)	
22.21.500	325 cm (5 feed openings)
22.21.400	262 cm (4 feed openings)
22.21.300	198 cm (3 feed openings)
22.21.200	134 cm (2 feed openings)
Young stock, D=20 cm, H=95 cm, Length (center to center)	
22.22.500	325 cm (6 feed openings)
22.22.400	274 cm (5 feed openings)
22.22.300	219 cm (4 feed openings)
22.22.200	171 cm (3 feed openings)

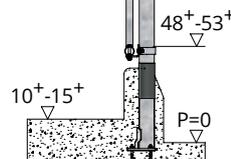
Fittings

- 10.25.200 Support post 76 mm x 200 cm (22.21)
- 10.25.180 Support post 76 mm x 180 cm (22.22)
- 11.02.250 Plastic protective sleeve 76 mm
- 10.26.180 Floor-mounted support post 76 mm x 180 cm
- 10.26.160 Floor-mounted support post 76 mm x 160 cm
- 11.06.250 Stopper 76 mm
- 02.91.100 Set of feed front fasteners 76 mm
- 02.90.105 Hinge assembly for gate
- 02.90.960 Castor wheel (for gates longer than 2 m)



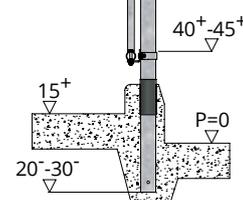
Sectional view installed feed front

Young stock 6-10 months



Sectional view installed feed front

Calves 0-6 months

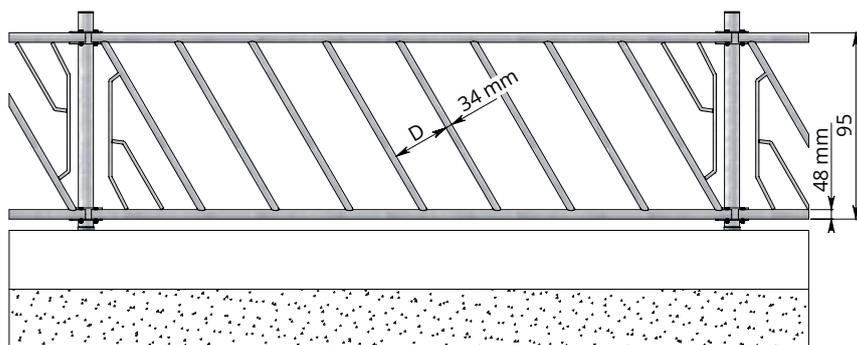


Tombstone feed front for young heifers and calves.

Young stock, D=17,5 cm, H=95 cm, Length (center to center)	
22.24.500	325 cm (7 feed openings)
22.24.400	282 cm (6 feed openings)
22.24.360	239 cm (5 feed openings)
22.24.300	196 cm (4 feed openings)
Calves, D=14 cm, H=79 cm, Length (center to center)	
22.25.500	325 cm (9 feed openings)
22.25.400	289 cm (8 feed openings)
22.25.360	253 cm (7 feed openings)
22.25.300	216 cm (6 feed openings)
22.25.200	180 cm (5 feed openings)

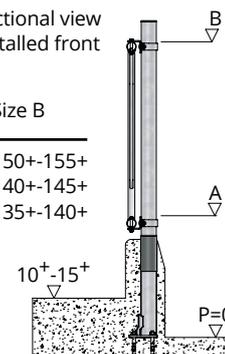
Fittings

- 10.25.180 Support post 76 mm x 180 cm (22.24)
- 10.25.160 Support post 76 mm x 160 cm (22.25)
- 11.02.250 Plastic protective sleeve 76 mm
- 10.26.160 Floor-mounted support post 76 mm x 160 cm
- 10.26.130 Floor-mounted support post 76 mm x 130 cm
- 11.06.250 Stopper 76 mm
- 02.91.100 Set of feed front fasteners 76 mm
- 02.90.020 Hanger to 48 mm
- 02.90.950 Castor wheel (for gates longer than 2 m)
- 03.90.400 Locking pin 100 cm



Sectional view installed front

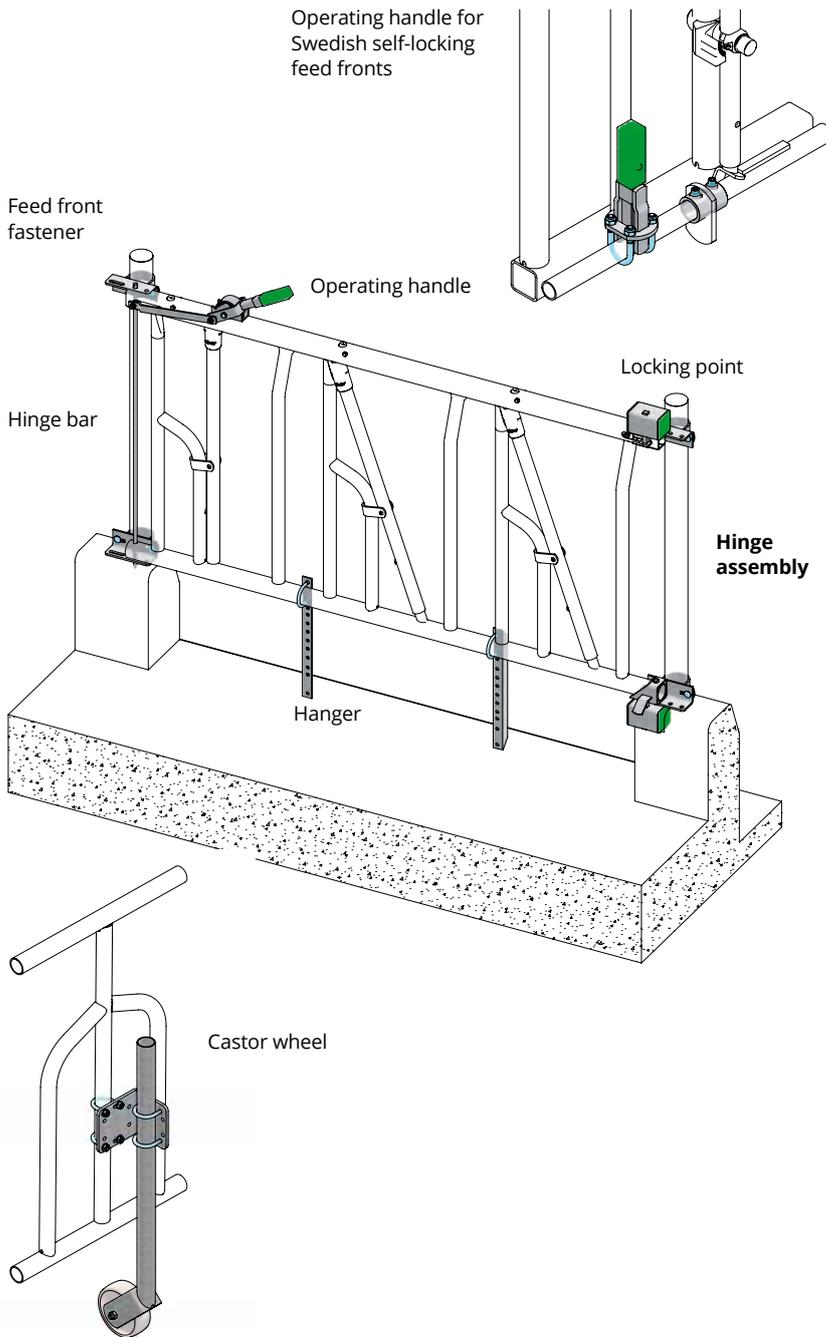
Age	Size A	Size B
Cows	60+-65+	150+-155+
Young stock (10-15 months)	50+-55+	140+-145+
Young stock (3-10 months)	45+-50+	135+-140+



Diagonal feed front for cows and young stock

Cows, D=29 cm, H=95 cm, Length (center to center)	
22.11.500	325 cm (7 feed openings)
22.11.400	295 cm (6 feed openings)
22.11.300	212 cm (4 feed openings)
22.11.200	145 cm (2 feed openings)
Young stock 3-15 months, D=24 cm, H=95 cm, Length (c.t.c.)	
22.13.500	325 cm (8 feed openings)
22.13.400	290 cm (7 feed openings)
22.13.300	220 cm (5 feed openings)
22.13.200	160 cm (3 feed openings)

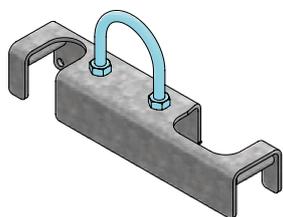
Fittings	
10.25.180	Support post 76 mm x 180 cm
11.02.250	Plastic protective sleeve 76 mm
10.26.160	Floor-mounted support post 76 mm x 160 cm
11.06.250	Stopper 76 mm
02.91.100	Set of feed front fasteners 76 mm
02.90.180	Hinge assembly for gate
02.90.950	Castor wheel (for gates longer than 2 m)



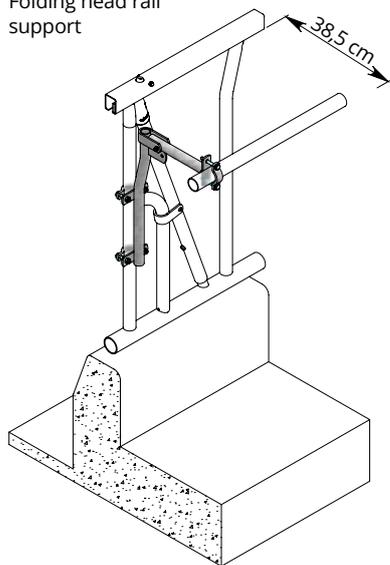
<p>02.92.100 22.92.680 22.92.500</p>	<p>Operating handle For central locking of self-locking feed front.</p> <p>Type of self-locking feed front Swedish Hidden locking types A feed front with a maximum length of 30 m can be operated with one handle. Safety feed front A feed front with a maximum length of 20 m can be operated with one handle.</p>
<p>02.90.180 02.90.190 02.90.285 02.90.585 02.90.380 02.90.880 02.91.100 02.90.010 02.90.015 02.90.020 02.90.030 02.90.035 02.90.050</p>	<p>Hinge assembly A hinge assembly consists of a set of feed front fasteners 0-5/76 mm, a hinge bar, 2 hangers and a set of locking points. When ordering a hinge assembly for self-locking or safety feed fronts an operating handle is included.</p> <p>Type of feed front Diagonal Tombstone Self-locking with hidden locking Limo self-locking Swedish self-locking Safety feed front</p> <p>Hinge assembly, separate components Set of feed front fasteners 0-5/76 mm Hinge pin 100 cm Hinge pin 125 cm Hanger to 48 mm Hanger to 60 mm Set of locking points</p>
<p>02.90.950 02.90.960 02.90.950 02.90.950 02.90.960 02.90.975 02.90.950</p>	<p>Castor wheel Usually mounted onto gates longer than 2 m, fastening plate and threaded strap included.</p> <p>Type of feed front Diagonal Tombstone (22.21 and 22.22) Tombstone (22.24 and 22.25) Self-locking with hidden locking (24.61 - 24.65) Limo self-locking (24.66) Safety feed front Swedish self-locking</p>



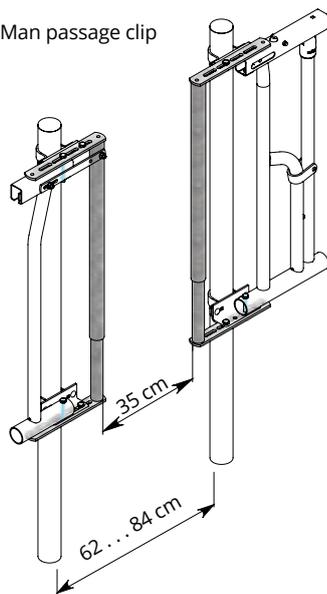
Indivast for self locking feed front



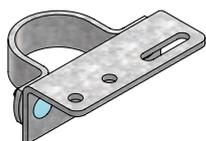
Folding head rail support



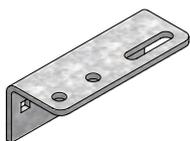
Man passage clip



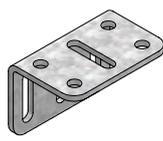
	<p>Individual locking 'Indivast'</p> <p>Indivast allows you to individually secure the cows in the feed front. That simplifies insemination procedures or other treatments. The Indivast has two recesses in the metal that is clamped around the catching bar and the frame. Locking is simply done by placing the Indivast at an angle perpendicular to the lower bar in the feed front and then twisting it a quarter of a turn, after which a little force is used to press it to the bottom of the feed front. It will then rest horizontally on the lower bar.</p> <p>22.92.650 Indivast for self locking feed front 22.61 / 22.62 / 24.61 / 24.62 / 24.63</p> <p>22.92.660 Indivast for self locking feed front 24.66</p> <p>22.92.750 Indivast for safety feed front 22.72 / 23.71</p>
<p>02.94.100 10.15.600</p>	<p>Folding head rail support</p> <p>A folding head rail prevents the animals from wasting feed. The head rail does not take space away from the feed alley, because of the folding mechanism. Can be mounted to self-locking and safety feed fronts. A length of tubing of 6 m. requires a minimum of 2 head rail supports.</p> <p>Head rail support, clamps included Tube 48 mm, length 6 m</p>
<p>02.93.100</p>	<p>Man passage clip</p> <p>To create a handy passage in a row of feed front sections. Suitable for all types of feed fronts, for young stock, heifers and cows. Two adjustable passage clips are shown.</p> <p>Man passage clip</p>



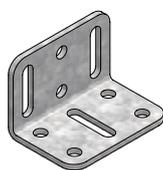
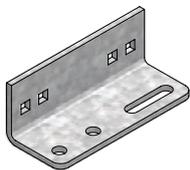
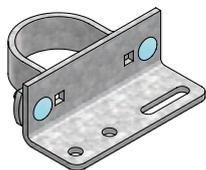
Set of feed front fasteners for mounting to support post



Set of feed front fasteners for mounting to barn posts or wall



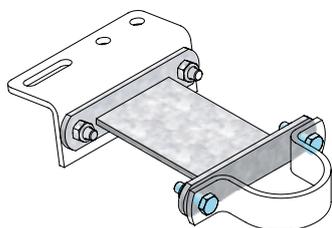
Feed front fasteners for mounting between barn posts



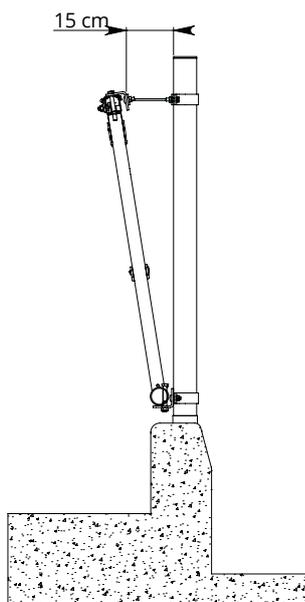
Set of feed front fasteners for mounting to support post

Set of feed front fasteners for mounting to barn posts or wall

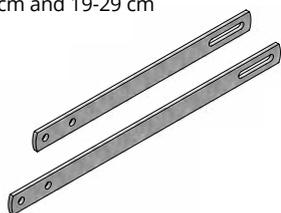
Feed front fasteners for mounting between barn posts



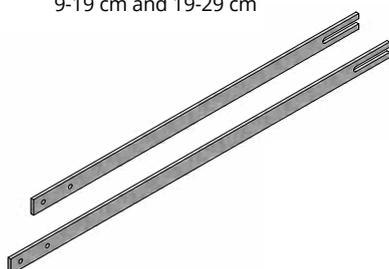
Universel spacer



Connecting strip for self-locking feed front 9-19 cm and 19-29 cm



Connecting strip for safety feed front 9-19 cm and 19-29 cm



Set of feed front fasteners

With our universal fasteners the length of every feed front section can be increased by up to 20 cm.

- 02.91.100** For support post 76 mm 0 - 5 cm
- 02.91.200** 5 - 10 cm
- 02.91.300** 10 - 20 cm

- 02.91.120** For support post 89 mm 0 - 5 cm
- 02.91.220** 5 - 10 cm
- 02.91.320** 10 - 20 cm

- 02.91.180** For support post \varnothing 80 mm 0 - 5 cm
- 02.91.280** 5 - 10 cm
- 02.91.380** 10 - 20 cm

- 02.91.135** For mounting to barn posts 0 - 5 cm
- 02.91.235** 5 - 10 cm
- 02.91.335** 10 - 20 cm

- 02.91.605** Complete set of feed front fasteners (4 angle pieces) for mounting 1 feed front between barn posts 0 - 7 cm
- 02.91.615** 5 - 12 cm
- 02.91.625** 10 - 17 cm

Universal spacer

With our universal spacer the feed front can be placed in an inclined position. In this way larger animals do not lean against the upper part of the barrier with their necks when they are eating.

- 02.91.800** Universal spacer 15 cm, with bolts

Connecting strips

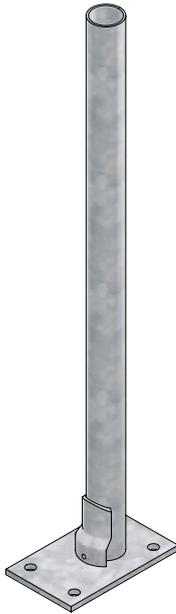
Included with our self-locking feed fronts are connecting strips of 0-9 cm. If the spacing between two feed fronts is bigger than 9 cm, longer connecting strips need to be ordered.

- 02.22.030** Connecting strip for self-locking feed front 0 - 9 cm (standard at each feed front)
- 02.22.031** 9 - 19 cm
- 02.22.032** 19 - 29 cm

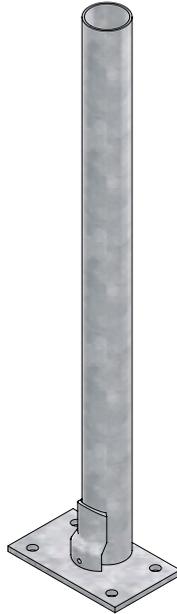
- 24.72.030** Connecting strip for safety feed front 0 - 9 cm (standard at each feed front)
- 24.72.031** 9 - 19 cm
- 24.72.032** 19 - 29 cm



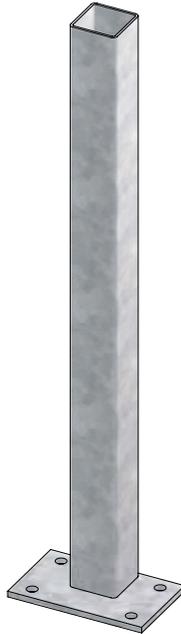
Support post, to be set in concrete



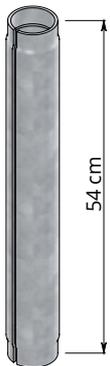
Floor-mounted support post 60 mm



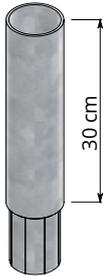
Floor-mounted support post 76 mm and 89 mm



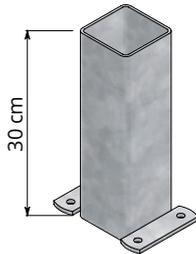
Floor-mounted support post ∇ 80 mm



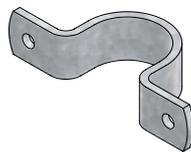
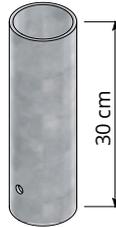
Expansion tube for post repair



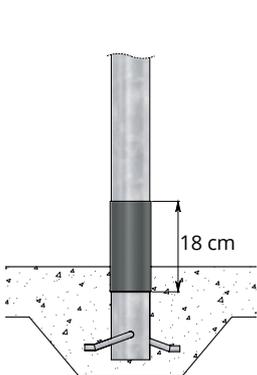
Extension for support post



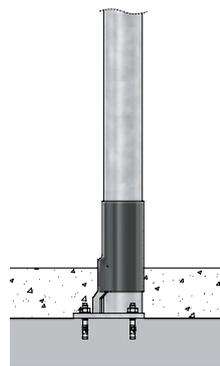
Metal sleeve



Mounting clip

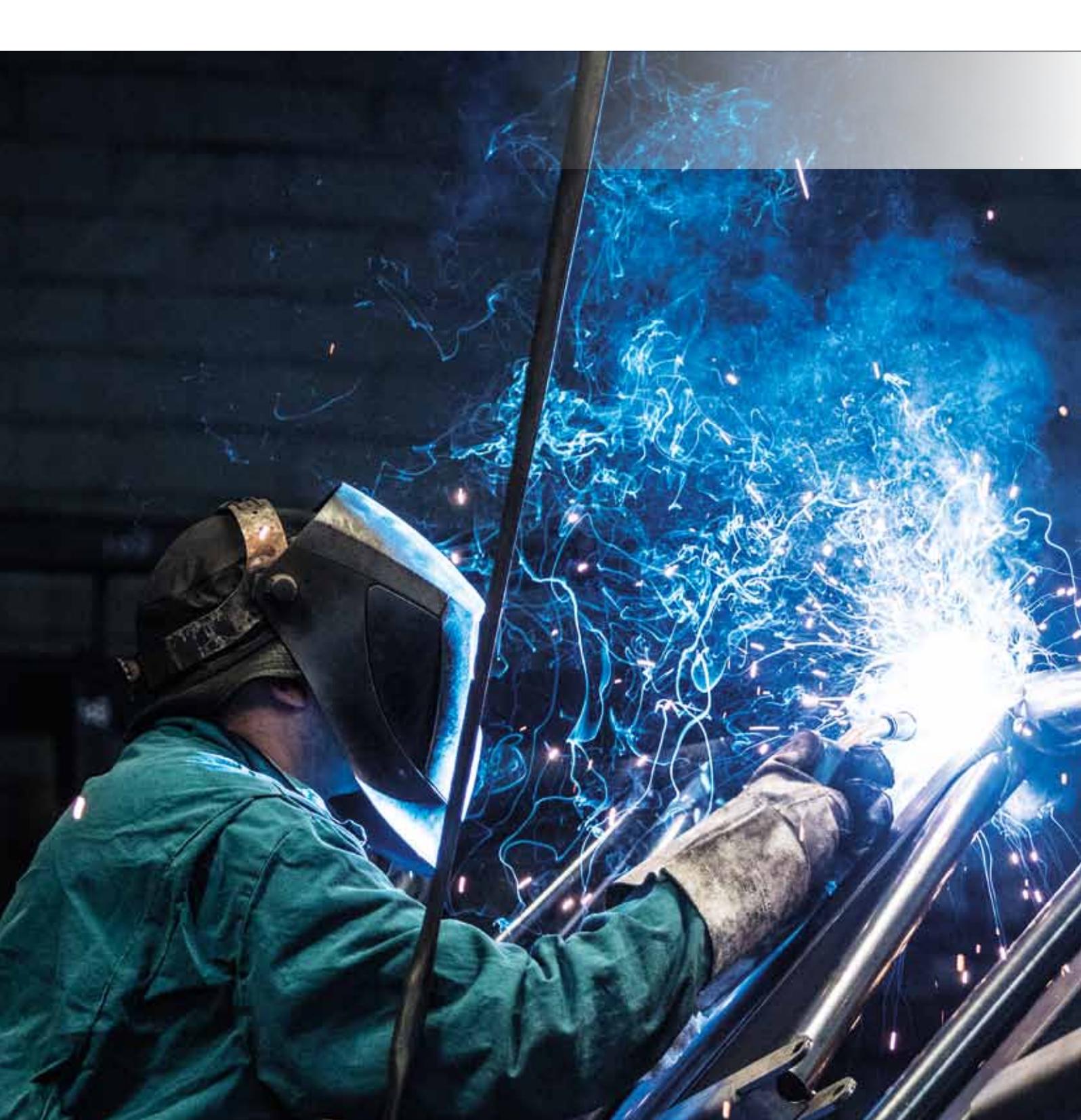


Plastic protective sleeve

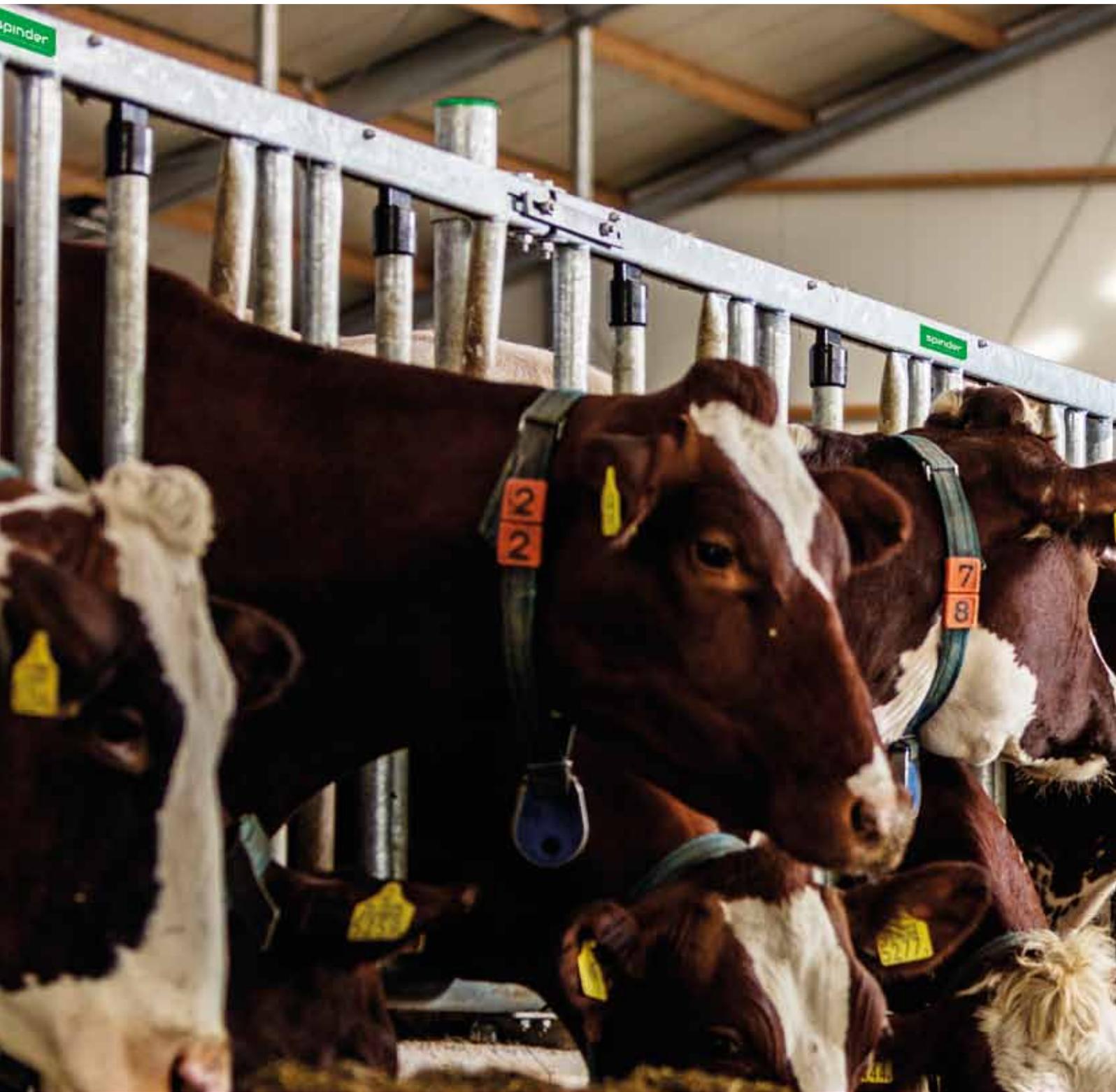


Stopper

	Support post, to be set in concrete
	Size
10.25.140	76 mm x 140 cm
10.25.160	76 mm x 160 cm
10.25.180	76 mm x 180 cm
10.25.200	76 mm x 200 cm
10.30.200	89 mm x 200 cm
10.80.180	∇ 80 x 180 cm
	Floor-mounted support post
	Size
10.21.120	60 mm x 120 cm
10.21.140	60 mm x 140 cm
10.26.100	76 mm x 100 cm
10.26.120	76 mm x 120 cm
10.26.130	76 mm x 130 cm
10.26.145	76 mm x 145 cm
10.26.160	76 mm x 160 cm
10.26.170	76 mm x 170 cm
10.26.180	76 mm x 180 cm
10.31.160	89 mm x 160 cm
10.31.180	89 mm x 180 cm
10.81.160	∇ 80 x 160 cm
10.81.180	∇ 80 x 180 cm
	Expansion tube for post repair
10.25.950	Expansion \varnothing 70 mm x 54 cm. For the repair of 76 mm support posts in concrete.
	Extension for support post
10.25.910	Extension \varnothing 76 mm x 30 cm. To be used where existing support posts are not high enough because of renovation.
	Metal sleeve
	Especially for removable support posts.
10.30.030	For support post 76 mm
10.30.090	For support post ∇ 80 mm
	Mounting clip
	For mounting wooden boards to support posts.
	Size
04.18.010	34 mm
04.18.015	48 mm
04.18.020	60 mm
04.18.025	76 mm
04.18.030	89 mm
04.18.050	102 mm
04.18.055	108 mm
04.18.040	114 mm
04.18.060	∇ 60 x 60 mm
04.18.080	∇ 80 x 80 mm
04.18.110	∇ 80 x 120 mm
	Plastic protective sleeve
	Length 18 cm
11.02.200	60 mm
11.02.250	76 mm
11.02.300	89 mm
11.02.800	∇ 80 mm
11.02.260	Plastic protective sleeve for floor-mounted support post 76 mm
	Stopper
	Size
11.06.200	60 mm
11.06.250	76 mm
11.06.300	89 mm
11.06.800	∇ 80 mm



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