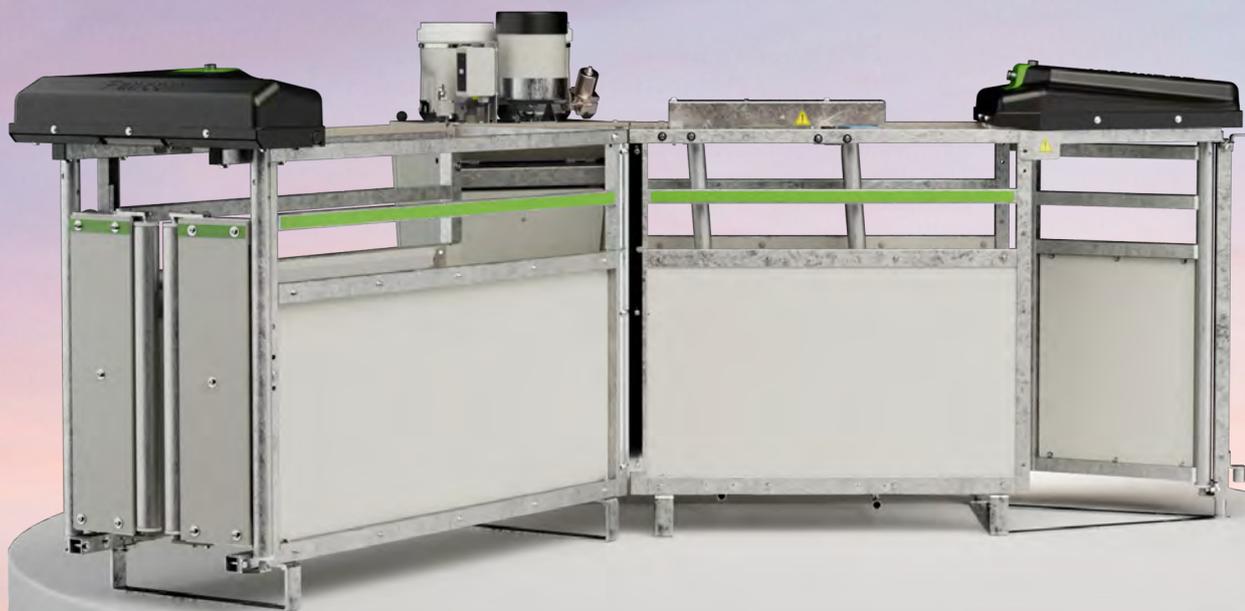


Feeding systems for pigs

For optimal animal performances and manageable feed costs



FANCOM[®]
forward thinking

Facts & Figures

45+

Years of experience

1600+

1600+ poultry houses annually

210+

Global network of distributors and partners

4900+

Sections for pigs annually

700

Growing rooms for mushrooms annually

1

Number one in farm automation



Proven Dutch quality:

Fancom is active in 4 market segment in 63 countries.

All our products are designed and developed in the Netherlands.



The creative and development processes at Fancom are entirely focussed on achieving superior conditions for pig and poultry producers. Creating the right conditions starts in the house.

FANCOM®

Total house automation

Our feeding systems are part of the Fancom system for total house automation. We offer a suitable solution for every type of house, no matter where in the world. A solution where the controller and peripheral equipment use smart intercommunication and where the various processes such as climate control, feed and water distribution and animal weighing interact and operate seamlessly. And are always customised to match your needs. We call this new approach Fancom One; complete control of the entire house from one central point.

Here is an example of total house automation in gestating sows in group housing. View more examples on our website and discover what Fancom can mean for your house.

Dry feed system
Reliable feeding from silo to feeder



Lumina series
Big in simplicity



Climate sensors
Measure how comfortable your animals are



I-fan Xtra modular fan
Energy efficient ventilation



IntelliTek sow feeding station
Your gestating sows in top condition



Fantura wall inlet
The right air flow system for every roof



Chimney system
Een passend luchtdoorvoersysteem voor ieder dak

The importance of automatic feeding

Margins and prices in the pig farming sector are under pressure. Pig producers need solutions that increase the efficiency of their production processes without compromising the quality of the end product and animal welfare. As feed costs account for such a large part of the total production costs, this is an aspect that demands critical attention.

Spiralling feed prices

As a pig farmer you are faced with ever-spiralling feed prices that are reducing the margins on feed. The greatest gains can be made by saving on feed costs. To effectively manage feed costs, it is vital that you have a clear insight into the feed consumption on your farm so that improvements can be made. An efficient, automated feeding process that generates extensive stock registration and data feed intake data is essential. This also saves time and helps to accurately control how much feed is given, as well as ensuring that each animal is automatically fed its feed ration.

Feed according to need for optimal animal performances

The needs of your animals differ in each phase of the production process. Sows benefit from an individual approach to ensure they are kept in top condition for an optimal and efficient performance during the gestation period and in the farrowing house. An overweight sow is not only less productive but also likely to have eaten too much feed. That is not positive for your feed efficiency rate. An under-

weight sow can never perform optimally. The individual approach to feeding is what makes all the difference, even if your sows are housed in groups.

Your piglets need an easily accessible feeding place with fresh, palatable feed to ensure a good feed intake in the first weeks after weaning. This prevents the dip often experienced by piglets after weaning. The result is healthy piglets that grow well.

With finishers, the enhanced genetic potential of pigs means they are increasingly efficient at converting nutrients into meat. It is therefore important to carefully examine the precise nutritional needs of the animals and feed them a ration that is accurately formulated to achieve optimal technical results. And as soon as possible, switch to cheaper feed with a lower mineral content. This will not only reduce feed costs, but also prevent the unnecessary excretion of minerals in the manure and urine.

Up-scaling

The scale of farms is continuing to increase, and sometimes one farm is located on multiple sites. This development makes long-term, reliable functioning of feeding systems even more crucial for your operations. System malfunctions are not only a source of annoyance, they can also disrupt animal growth and even affect feed quality. And you want the security of being alerted in time by the computer that monitors the feeding process if things threaten to go wrong. The quality of the system and ease of operation are also factors that are becoming increasingly important. This is the only way that you can easily adapt the feeding process to suit your individual situation and benefit from ease, time saving and improved technical results.

A suitable solution for every house

Because every house is different, Fancom offers a range of automatic feeding systems. The key features of these systems are flexibility, reliability and convenience. Discover our solutions on the following pages.



Smart feeding system for sows

Top conditions for your sows

Sow farming is like delivering a peak performance. Good sow management and efficient feed management throughout the cycle are indispensable to keep your animals in top condition, ensuring the best performance in the sow house. All good reason to make sure your animals are eating well throughout the cycle to maintain their body condition. Our smart systems for individual feeding, in the service house, gestation house and farrowing house, are a valuable tool to help achieve this. And they provide pig producers with vital and valuable insight into the animals' eating behaviour.

The basis of good sow management

Sows benefit from an individual approach to ensure they are kept in top condition for an optimal and efficient performance. An overweight sow shows a poorer performance and has a greater risk of health problems. In addition, your feed costs for this sow are too high. An underweight sow will also perform less well and equally has a higher risk of health problems. In this case too, your results will be disappointing because the sow has not been given enough feed.

Our smart feeding systems allow the feed portions to be accurately tailored to suit the needs of the individual sows, throughout the entire cycle, in the service house, gestation house and farrowing house. Doing this will ensure the sows are in top condition when they enter the farrowing house and when they leave again.

Gestating sows in group housing

Fancom's Intellitek electronic sow feeding system has been specially developed for sows in group housing. Group housing stimulates the sow's natural behaviour and offers your animals a safe and comfortable environment. You can configure the house flexibly, and less space is required. We take the sows' natural behaviour into account when configuring the layout of the pens. Each pen comprises an area for the sow to rest, a space to dung and move around and a partitioned area for eating with extra space for the sows waiting to use the feeding station. The investment costs to house sows in groups are generally lower than housing sows in pens.

Group housing of pregnant sows is in line with the aim of rearing pigs in the most animal-friendly way. Using feeding stations allows you to create a partitioned area for eating. The sows eat in turn at the feeding station in an order that roughly corresponds to the social status of the sows in the group. The sows decide how many times they return to the station for a portion of their daily ration, but most sows tend to eat their entire ration in one go. Individual animal recognition ensures the correct portion of feed is dispensed automatically to each sow. The feed is dispensed in small portions and the dosing speed can be adjusted.

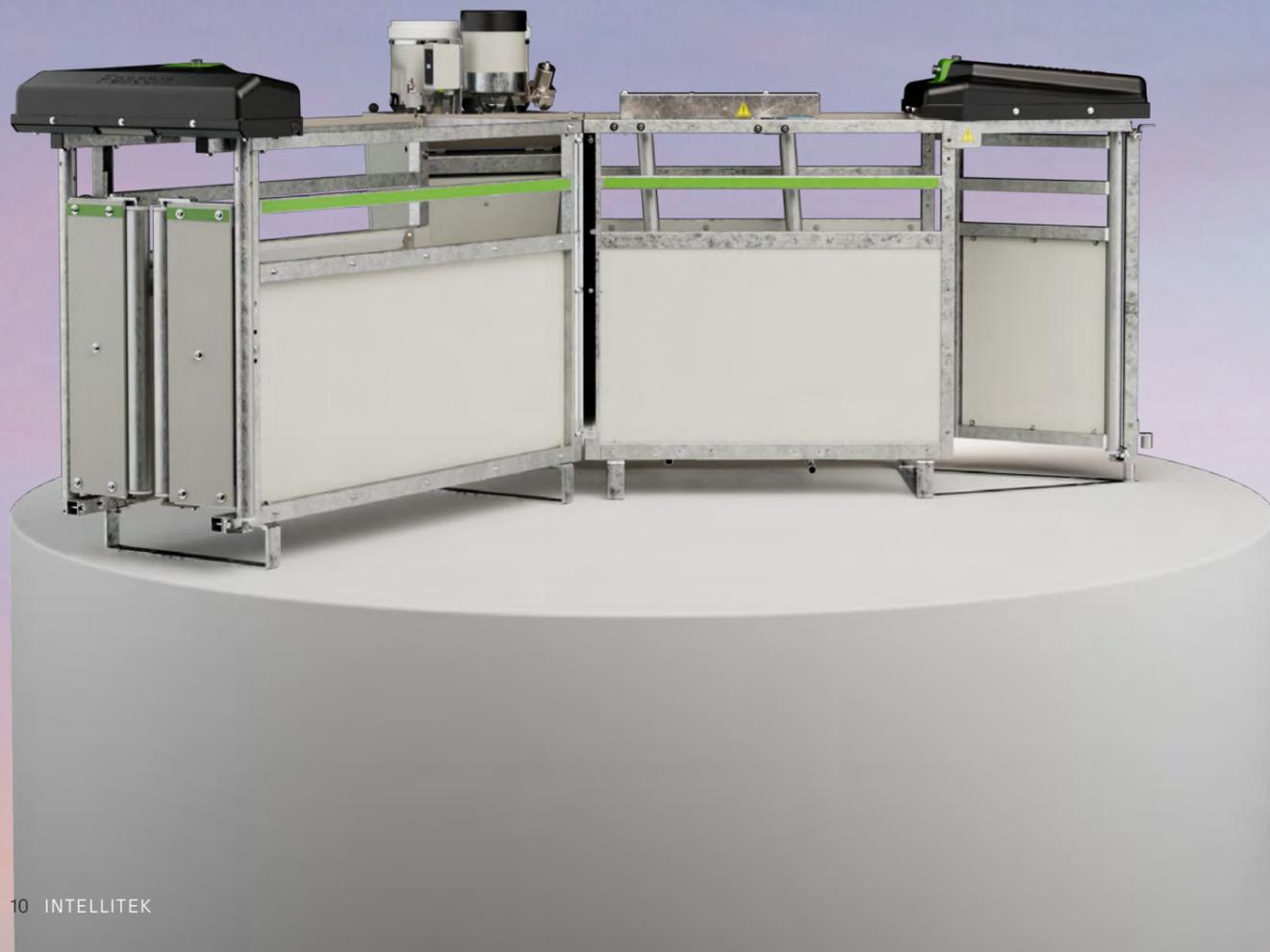
- Efficient sow management
- Animal friendly
- Flexible configuration of the house
- Lower investment costs
- Your sows in top condition

Good sow management and efficient feed management throughout the cycle are indispensable to keep your animals in top condition.



IntelliTek sow feeding station

Feeding gestating sows individually



How does Intellitek work?

The station recognises the sows by reading the transponder in the sow's ear and only grants access to the station to animals that are entitled to receive feed. The double access gate is opened pneumatically without obstructing the sow. The gate closes firmly and quickly to block access to the other sows. A handy, colour indication LED strip at the entrance to the feeding station shows the feeding status of sows from a distance. For example, sows that have lost their transponders will stand out immediately and be placed on an alert list.

Double check identification

Once in the station, the identification of the sow is checked again at the trough before any feed is dosed. Based on the individual feed curve, the sow is fed the right portion of feed, tailored to her body condition. Various types of feed can be dispensed using a maximum of 12 different feed curves. The status of your animals is easy to check. You can see at a glance how much has been eaten, and whether any feed is left behind. Any necessary adjustments to the feed curve can be made in the house.

Double exit gate

A special selection gate allows sows to be selected when they exit the station so they can be directed to a different zone in the house. The double exit gate prevents a sow from entering the station from behind while another sow is exiting the station. The computer's double sensor reliably registers whether a sow has actually exited or re-entered the station.

Flexible configuration of the house

The Intellitek is available in left and right versions, with or without a selection gate. Each station is suitable for 60-70 sows.

Special attention for maiden gilts

Well begun is half done, so pay extra attention to maiden gilts. The Intellitek's stress-free training programme teaches sows how to use the feeding station in just a few days.



Automatic heat detection

When gestating sows are housed in groups, quickly identifying and removing sows in heat from the group is vital. As well as lost production days, a sow in heat causes disruption in the group. The Fancom HeatTek automatic heat detection automatically detects and marks the sows and sends a signal to the stockperson. Automatic heat detection works faster and more accurately and is safe for the stockperson.

FaroTek in the farrowing house

Individual feeding in the farrowing house

Genetic improvements in sow breeding mean that the number of piglets in each litter is increasing. Sows must have a higher feed intake in order to produce more milk and at the same time limit body weight loss. The best way to boost the sow's feed intake is by offering the feed gradually. This is also better for the sow's digestive system. What this means is providing feed in smaller portions more frequently. And preferably also at times when the sow feels like eating. FaroTek allows you to feed sows several times a day according to an individual regime. This optimally utilises the sow's feed intake capacity.

How does FaroTek work?

When the sow arrives in the farrowing house, she is linked to the dispenser in the farrowing pen. Her correct, individual feed curve is activated, taking into account her body condition and, for example, her age and parity. The system calculates each sow's daily feed ration according to a feed curve and doses this ration in several portions throughout the day. The feed is not dispensed into the trough at regular, fixed times - but according to the sow's appetite. Each time the sow touches the sensor ball the FaroTek doses 60 grams of feed into the trough. When the sow has eaten her complete ration, the system will stop dosing until the next feeding time. The number of feeding times can be set individually. Initially, you set two feeding times a day. Later on, when the amount of feed increases, you can set up to eight feeding times a day.

Insight into eating behaviour in the house

In the house, a handy LED indicator on the dispenser provides important information about the feed status of the relevant sow such as whether she has already eaten that day and whether she consumed her full ration. A hand-held terminal identifies the individual sows and displays all the relevant data on body condition, feed profiles and any alarms with a single click. Any adjustments necessary can be input at once. This means the information you work with is always the latest animal data, which saves time and prevent errors.

Minimise feed waste

Thanks to the combination of the right feed curve and the individual adjustments, sows are always fed the optimal amount. Feed is only dosed on demand when the pig activates the sensor. So there is always fresh feed in the trough. The sows have a higher feed intake and lose less body condition. In the subsequent farrowing cycle they have less weight to make up for and can therefore consume less feed. The savings on feed can amount to as much as 500 kg of feed per place in the farrowing house per year.

- Feeding according to a feed curve based on the individual needs of the sow
- Better feed intake and less weight loss
- No feed waste
- Higher milk production
- Uniform piglets
- Better sow condition

FaroTek for gestating sows and in the service house

The FaroTek individual feeding system for sows has several curve settings. The system can be used in farrowing house, but is also ideal for applications in the service house and even when gestating sows are housed in individual pens. You can benefit from efficient feed management during the sow's entire production cycle, from the service house right up to the farrowing house.



TouchTek sow management

Practical sow management

Good management means taking the right action at the right time. And that applies now more than ever to sow management. The TouchTek platform offers you the ideal tool to track and steer the performance of your sows during all phases of their lives. Giving you complete and clear control.

Individual animal management

Setting up and transferring the sows is simplicity itself. The transponder scanner in the hand-held terminal identifies the individual sows and displays all the relevant data on condition, feed profiles and any alarms with a single click. Any adjustments necessary can be input at once. This means the information you work with is always the latest animal data.

Section management

All relevant animal data can be accessed via the handy touch screens on the Fancom TouchTek, which hangs in the section. This unit only contains data relating to the sows in that specific section. This makes the overview lists a lot shorter and easier to work with! The TouchTek can be used in sections with IntelliTek sow feeding stations, but also in combination with the FaroTek in the farrowing house or service house.

Farm management

For a complete overview of the performance on your sow farm, link the TouchTek units to your PC via a network. You can easily enter central settings such as feed profiles and feed curves, and collect data from the entire farm in clear tables and graphs for thorough analysis. This provides you with insight into important key performance indicators such as the farrowing rate and the number of live-born piglets, allowing you to focus on improvements.

How large can your house get?

General	max.
Number of sows per station	60
Number of gilts per station	30

Per TouchTek	
Number of Intelliteks	4
Number of HeatTeks	1
Number of FaroTeks	64

Per installatie met TouchTek server	
Number of Intelliteks	50
Number of TouchTek units	25
Number of sows in group housing (IntelliTek)	3.500
Number of sows in individual pens (FaroTek)	1.500

Per installation with TouchTek+ external database	
Number of Intelliteks	100
Number of TouchTek units	40
Number of sows in group housing (IntelliTek)	7.000
Number of sows in individual pens (FaroTek)	2.500

TouchTek Benefits

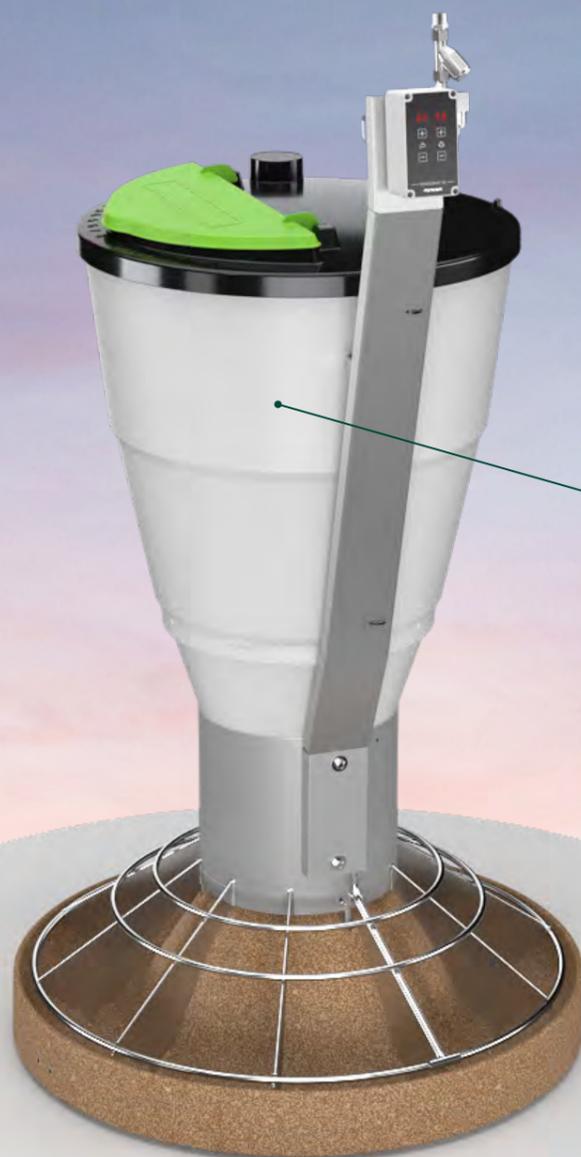
- One operating station for all the feeding systems in the sow house
- Suitable for 7000 sows
- Track sow performance in all phases of life
- Handy touch screen operation with easy to recognise symbols
- Link to PC



Rondomat piglet feeder

Prevent weaning dip with the Rondomat piglet feeder

The Rondomat is a sensor-controlled piglet feeder that helps ensure a smooth post-weaning transition to weaner feed. The weaned piglets are given immediate access to clean, fresh feed without having to learn how to operate a feed trough system. This prevents the dip often experienced by piglets after weaning. The result is piglets in optimal health with good, fast growth. The Rondomat is suitable for use in sections housing up to 70 piglets.



Up to 35 grams higher growth

A feeding place in the pen that can be easily accessed by all the animals ensures better feed intake by the piglets in the first weeks post-weaning. Up to 20 piglets can eat at the Rondomat feeder at the same time. Seeing someone else eat encourages the appetite – and the same applies to piglets. Smaller piglets in particular benefit from the larger feeding places. Results from practice reveal that piglets can easily achieve up to 35 grams higher growth per day.

Easy to use

The Rondomat automatically doses feed as needed. Sensors detect whether there is any feed in the trough. As soon as the trough is empty, a small portion of feed mixed with water is provided in the trough. The feed/ water ratio can be set and adjusted over time. The feed in the trough is always fresh and tasty for the piglets. You will also notice that hardly any feed is wasted.

Higher piglet uniformity

This spacious feeding place is very pleasant for the smallest piglets in the litter. These piglets often lag behind in growth during the first few days because it costs them too much effort to claim a place at the feeder. The Rondomat offers a lot more space and fresh feed is always available. In practice we see that the daily growth rate is relatively much higher in light piglets, and the uniformity in final weights is also better.



Rondomat in practice

	Rondomat	Liquid feed automatic dispenser
Growth LIGHT piglets	439g	379g
Growth AVERAGE piglets	441g	406g
Growth HEAVY piglets	442g	440g

(test results Haus Düsse, Germany)

- For quick and healthy piglet growth
- Prevents weaning dip
- Reduces waste feed
- Up to 35g higher growth per day
- Uniform piglet weights

Automatic feed dispensing

Depending on the situation in your house and your requirements, there are various options to control the feeding process automatically. Many pig farmers use a simple dry feeding system for volume dosing of compound feed. We mainly see this application on farms that operate an all-in, all-out strategy, where all the animals are given the same type of feed, such as groups of rearers or finishers given dry feed or liquid feed in feeders. This system is also ideal for restricted feeding using dispensers for individual animals, such as sows. A simple dry feed system has a minimal risk of malfunctions and is easy to use for the stockpersons.



Functionality of the Aura 70

- Controls dispensers
- Controls 1 or 2 silo augers
- Control of 1 feed circuit
- Maximum 8 feeding cycles per day
- Settable wait time, before or after filling, between opening dispenser and starting feed circuit
- Manual start/stop to bring feed time forward on initiate a temporary stop
- Registration of running times silo auger for the last 7 days
- Automatic stop for circuit based on full report sensor with maximum running time limit
- Settable running time for dispenser control
- Signalling contact
- Input for external process start
- Signalling code on display, simple, quickly accessible data on process malfunctions

Sensors for:

- Cable break detection via continual or pulse-based signal
- Full report sensor with settable delay time
- Detection of feed residues from previous cycle
- Empty report sensor in silo with automatic switch to a second silo
- Dispenser closed

How does a simple feeding system work?

The feeding process starts automatically based on the feed clocks in the computer. An auger transports the feed from the silo and discharges it into the chain circuit in the house. The auger ensures a continuous supply to the chain without overloading the system. A sensor checks that no feed is left behind from the previous feeding cycle. The system keeps running until all the dispensers or troughs are filled. The feeding system stops when the end sensor at the final feed place detects feed. The ration of feed per eating place is set at the dispenser or chute. Finally, the feed computer sends a signal to open the dispensers. A built-in signal checks the maximum running time and the feed computer registers the time. Automatically switching to a second silo is also possible.

Reliable control of the feeding process

The Aura 70 is a reliable feeding computer especially for simple feeding systems. The Aura 70 is supplied with an integrated switch box for quick and easy installation. The easy to read display with handy touch screen operation provides clear information about the feeding process. Extensive signal functions safeguard the feeding process and warn in time of situations where preventive action may be needed. The feed computer registers running times up to seven days back. This offers you insight into the daily feed consumption so you can take immediate action in the case of abnormalities. In addition, this helps keep your feed costs under control.

Lumina 71 Multi-phase feeding

Pig producers who want greater flexibility in the choice of feed, feed transitions and the ration per feeder choose a multi-phase feeding system. This system increases their control over the feeding process and allows them to feed the right portion in the right composition at each feeding place.



Feed according to need

The multiphase dry feed system feeds the right portion in the right composition per feeding place. The feed composition can be changed daily to precisely suit the animals' needs. A mineral-rich feed (nitrogen and phosphorus) is mixed with a low mineral feed in continually varying proportions so the combination of both feeds satisfies the current needs of the animals in the age group concerned. As the new feeds are mixed gradually, the transition is very smooth so the animals have no problems digesting and adapting to a new feed. The amount given corresponds precisely to the growth and mix curve. The result is stronger growth and less susceptibility to diseases. Always feeding the animals the right blend, and being able to switch to cheaper feed with less minerals in time, also allows you to save on feed costs.

How does multi-phase feeding work?

The control computer calculates the precise size and composition of the feed ration per valve. It generates an accurate report of the required feed composition. To create the ration, the components in the silo are dosed into the weigher/mixer, weighed accurately and mixed if necessary. It is also possible to add farm-grown ingredients or by-products to the feed as a way of controlling the costs.

Two ways of dosing out:

1. Based on registration/dosing. Dosing stops when the set amount of feed is reached.
2. Based on ad lib sensor feeding. Unlimited portions of feed are dispensed during the entire feeding cycle as long as the sensor in the feeder does not detect any feed.

A calm house

For a higher dosing rate, it is important to prepare and dose out the feed simultaneously. Several portions must also be present in the feeding system at the same time and the control computer must be able to control multiple circuits simultaneously. This enables large groups of animals to be fed in a relatively short space of time and ensures the animals stay calm and content.

Overview and ease

Fancom offers the Lumina 71 feed computer specifically for multi-phase feeding. The Lumina 71 precisely calculates the size and blend of the portions per valve. The number of animals and their age are used in these calculations. The calculations are repeated every day to ensure the feed matches the animals' needs and is accurate to the gram. Overview and ease are huge advantages of the Lumina 71 feed computer with its extra large, 12 inch operating screen. The Lumina software is characterised by the use of recognisable symbols and colours: green means everything is fine, orange means that some aspect needs your attention. Handy navigation buttons on the main screen give direct access to the most important data about the feeding process with a single click. The clear feed data registration enables you to calculate precise index numbers, compare data and make informed decisions.

Functionality of the Lumina 71

Dosing in

- 1 weigher/blender
- 4 hoppers (circuit control)
- 1 hopper(route control)
- 20 ingredients

Circuit control

- 15 feed circuits
- 4 circuits can be fed simultaneously

Route control

- 20 routes
- Maximum 25 sections
- 10 sections per route
- Maximum 20 portions simultaneously

Dosing out

- 600 feed places
- 8 start times per day
- 20 feed curves / blends
- 20 day numbers per feeding place

Extra features

- 20 time clocks
- Registration functions

Two control principles

The Lumina 71 has two different control principles. The configuration of your farm, feed strategy and the size of the portion to be fed determine which system is most suitable for your situation.

Circuit control

The feed is sent to all the feed valves in the house via a system of feeding pipes in a closed circuit. Circuit control is an efficient and quick way of feeding a high number of small feed portions. The circuit layout is very flexible. Circuit control is used with sows, farrowing pens, piglet rearing and with small groups of finishers.

Route control

Route control sends the feed via flex augers in a fixed route directly to the valves. This type of control enables fast and accurate feeding of large feed portions and is mainly used with larger groups of fatteners and piglets. A characteristic of this system is the high transport speed so the circuit consists of straight augers with the fewest possible bends.

Efficient transport of feed from silo to trough

To complete your automatic feeding system complete, we supply a wide range of feeding systems for today's pig producers. Whether you are looking for circular tube feeding systems or straight line auger feeding systems, we offer the best solution for every type of pig house to achieve optimal production results. The feeding systems are made of high quality, durable materials and require little maintenance. The modular construction means that all the components are compatible and enable almost unlimited configurations to create conventionally or automatically controlled feeding systems suitable for every category of pigs.

Storage

Fancom supplies various hermetically closeable silos for safe and efficient feed storage. The silos can be filled pneumatically, mechanically or using a combination of both systems. The spiral auger transport system ensures optimal feed transport to the house.

Multi-phase feeding

Especially for multi-phase feeding systems, Fancom offers pneumatic discharge valves for accurate feed dosing and a stainless steel weigher/mixer with a capacity of 80 and 180 litres that combines a high feeding speed with accurate and stable weighing of the feed blends. The weigher/mixer has a double discharge outlet for fast, waste-free dosing out.



Superior conditions in the house

The creative and development processes at Fancom are entirely focussed on achieving superior conditions for pig and poultry producers. And for mushroom growers. Creating the right conditions starts in the house. That is why we firmly believe in the value of total house automation. With smart house technology that manages and controls all the processes in the house from a central location. Ventilation and heating, feed and water distribution, lighting, animal weighing and egg counting - all controlled and monitored perfectly.

You can create insight by collecting and linking as much data as possible from these automated processes. Insight into animal health and behaviour, insight into feed and consumption, insight into growth and development. Valuable information that enables more efficient and profitable production in a way that respects animals and the environment.

In our opinion, there are no limits to what complete farm automation can do. Whatever our customers need to know - we can automate and measure it. And the more informed they are, the better control of animal welfare and results. Creating the right conditions for healthy and future-proof farming. Our ambition together with our customers is to ensure that whatever happens inside the house has an impact outside.

We call the driver behind creating an impact Forward Thinking - the way of thinking, acting and working that typifies Fancom. We set the bar high for ourselves and the people around us based on the belief that things can always get better. And must. Our automated

processes facilitate control inside the house. Outside the house, making a meaningful impact requires a thorough understanding of the challenges facing our customers. They operate in a sector that has to balance the interests and tensions of nature, technology, data, politics and social sentiment. Against the background of this dynamic, we challenge ourselves to develop ever-smarter systems. We are at the forefront of development and innovation. Yesterday, we provided the solutions to today's challenges. Today, we are working on the solutions to tomorrow's challenges. Always anticipating developments. This is precisely what we mean by Forward Thinking.

By combining the power of innovation, leadership, empathy and partnership, Fancom guarantees solutions that benefit operational management, people, animals and the environment. Today and tomorrow.

By combining the power of innovation, leadership, empathy and partnership, Fancom guarantees solutions that benefit operational management, people, animals and the environment. **Today and tomorrow.**



Fancom feeding systems all over the world

Countless pig farmers all over the world benefit from optimal conditions in their houses by using one of our feeding systems.



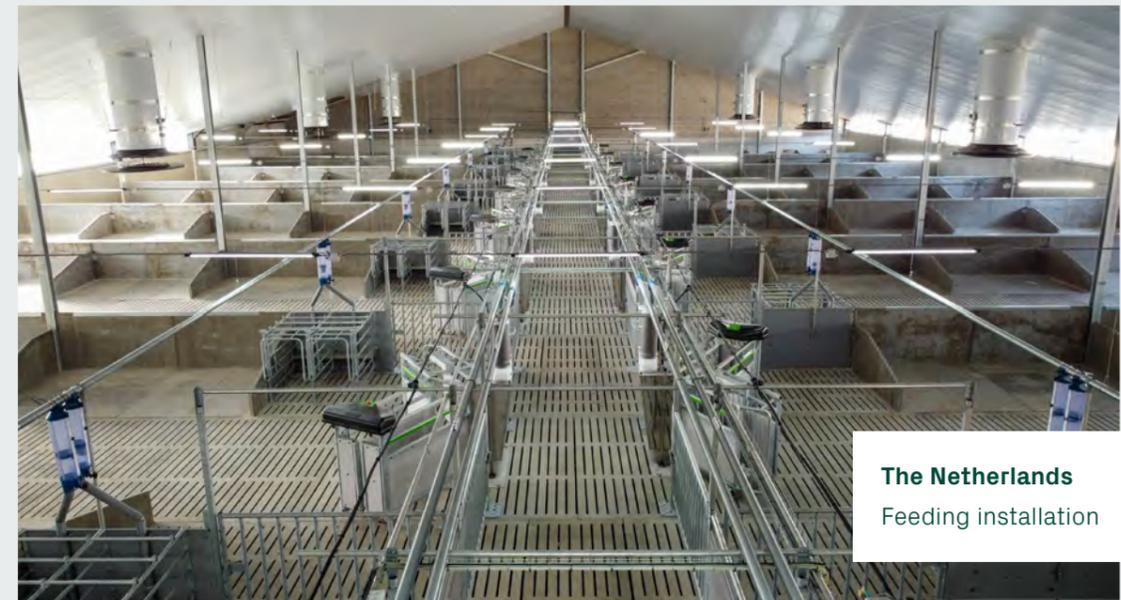
The Netherlands
FaroTek



The Netherlands
Intellitek



The Netherlands
HeatTek



The Netherlands
Feeding installation



USA
RondoMat



Spain
Intellitek

Forward thinking

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