

ELECTRONIC SOW FEEDING

ESF



SKIOLD MAKES THE DIFFERENCE!

- Efficient control of sow's feed intake (lack of feed consumption triggers an alarm)
- Controlled feeding of every single sow
- Automatic dosing of vitamins and minerals
- Efficient management
- No waste of feed
- Low overall price



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THE FEED STATION

The feed station is built of sturdy steel sheeting, which has been heat galvanized for optimal durability. The station features compressed air-controlled rear gates and access to the feed trough controlled by compressed air. With this design, SKIOLD has created the simplest and most reliable feed station available on the market today.

ENTRY GATE

A new and very sturdy entry gate system ensures maximum durability and makes the operation of the station particularly reliable. The entry gate is controlled by compressed air and opens automatically when the station is empty, thus making it much easier to train new animals. A photoelectric cell is used to close the gates automatically and gently behind the sow, and the gates remain closed until the sow has eaten its ration or has left the station.

FEED CURVES AND OTHER CONTROL FUNCTIONS

- It is possible to enter up to nine different feed curves into the feed control system, allowing for individualization of the feed quantities, mix, etc..
- Likewise, it is also possible to adjust the volume of water allocated, and the amount of feed.
- There is also an option to use the same station to distribute two different types of feed (e.g. for lactating and non-lactating sows).
- Furthermore, the system can even be used to distribute medication. When a sow enters the station, medication and vitamins are dispensed using a small auger.
- Automatic entry. This means that when data about a sow have been entered into the system, the sow can be re-entered into the system the first time the sow comes into a station. As a result, there is no need to waste time re-entering the same sow into the system from the farrowing pen.
- The system can also print a variety of detailed status lists.



FEED TROUGH

The feed trough is made of stainless steel. The gate is controlled by compressed air and ensures that only sows that have not eaten their entire ration have access to the trough. The gate also closes automatically when the sow has eaten its total daily ration.

SEPARATION

If you wish to separate particular sows from the rest of the herd, for example sows that are to be moved to the farrowing pens, an air-controlled gate takes care of the procedure. This gate automatically leads the sows in question into a separation pen instead of returning them to the rest of the herd.

COLOUR MARKING

If you do not have a separation pen, or if you wish to mark certain sows for vaccination, etc., a colour spray system is available for installation above the eating area. The spray system can operate with up to three different colours.

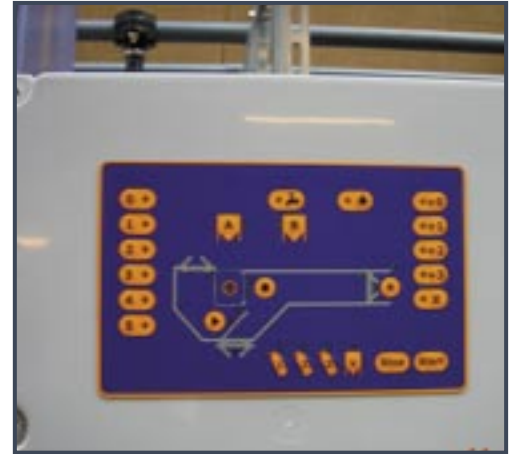
BOAR DETECTOR

The boar detector helps you to find sows that have to return to service. Via a visiting index you can define an alarm list that will be visible on the screen showing the sows that have visited the boar, and are included in the index, calculated by the computer.

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computer for the automatic regulation in relation to the quantity of dry different feed mixes (Phase feeding). When a sow that has been entered a predefined amount of minerals entered, they will automatically stop feeding after leaving the farrowing pen. The data every time a sow returns

DATAMIX ESF COMPUTER - CAPACITY	
Number of stations	40
Connection points PC and hand-held terminal	yes
Recipes per station dry or liquid	1/ 2
Medication dispensers	option
Number of feed curves	9
Separation by gate	option
Separation by colour	up to 3
Alarm	option
Integration with Agrosoft Management	yes



THE COMPUTER

The Datamix ESF computer is a robust, industrial computer made in Denmark that can withstand the tough conditions in the housings, which are often not insulated. The computer contains all the facilities to be expected of a modern feeding computer. Various Windows-based programs for remote control and Management are available.

WIRELESS SCANNER AND HAND-HELD TERMINAL

With the hand-held terminal, you can take all the data about your sows with you wherever you go. A newly developed wireless scanner makes it possible to read the sows' ear tags, providing you with instant access to all relevant data. The hand-held terminal features a plug connection, which can be used for recharging the terminal or transferring new data to both the feeding computer and the management program in your PC. The hand-held terminal is a small PDA-computer (Personal Digital Assistant), which easily fits into your pocket. The PDA-computer includes Excel spreadsheet, Word word processing, calendar, notebook and Dictaphone and of course you can write an e-mail in outlook. SKIOLD has developed software to the PDA/hand-held terminal with Windows user interface and touch-screen display that makes it possible to change/check all data on the entire herd in the housing. Combined with Agrosoft WinSvin the farmer/user have all opportunities to manage the animal's welfare via the PDA. Together with the PDA the wireless ear tag scanner, which is based on Blue tooth technology, offers numerous administrative possibilities directly from the housing where the activities take place. The combination of newly developed hardware and software constitutes the perfect tool for administration of ESF as well as liquid feeding.



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PC Windows communication

The PC communication programme is fully integrated with AgroSoft WinSwine, and it can be used for E-control and to draw up financial reports about both sows and fatteners.

ACTIVITY WINDOWS

The activities of the installation are easy to monitor. All you need to do is to open a window, which shows all the stations. At the same time, it is possible to use this window to change the set-up of the individual stations. The window also gives you access to a range of other information about feed consumption, visit statistics, the position of the animals in the stall system, most recent visits, etc.

Nr.	Tilstand	Sonr	FE/dage	Rest/FE	Transponder	Stat
1	Foder paus	614	2.20	1.20	17173668	
2	Vent på dyr					9
3	Foder paus	465	2.20	0.78	17173597	

	Date	Tid	Fe	Stat
1	11/1	1:08	0.81	1
2	11/1	3:18	1.54	1
3	10/1	11:12	1.59	1
4	10/1	14:38	1.61	1
5	9/1	1:37	0.94	1

NETWORK COMMUNICATION

The Datamix ESF computer is supplied with a P-Net interface, which makes it possible to communicate with other management programs and to send data to a computer at your office. The entire P-Net system is based on the international standardized P-Net communication. P-Net is built up of modules that you can install wherever you need them. E.g. when you install a new ventilation control or a dry feeder or liquid minerals you connect to the P-Net cable and your data can be read on your computer. Also, it means a quick and easy servicing of your pig production; you change in- and outlets instead of replacing the entire data-unit, which is expensive as well as time consuming.



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