

# TOTAL FARM SOLUTIONS

DANISH **PIG**  
ACADEMY



*INSPIRATION, TECHNOLOGY & KNOWHOW - ALL IN ONE PLACE*



”

## Welcome...

... to the international gathering point for pig producers!

Here at Danish Pig Academy, we display the latest technology and most efficient solutions for pig production.

We guarantee that you will have a unique experience and get inspiration for your future projects.

Come visit us - if you want to become one of the best!”

*Torben Olesen, Chairman*



”

## There is a place...

### ... where pigs are in focus”

Danish Pig Academy is a collaboration between independent Danish suppliers of equipment and services for pig production.

Danish Pig Academy is a gathering point for both international and Danish pig producers as well as other interested persons, groups, institutions and organizations within the pig industry.

Danish Pig Academy provides pig producers with the opportunity to experience the best of Danish technology gathered in one place.





# All in one place...



Here, you will be introduced to modern technologies. You will acquire the newest knowledge and find inspiration for your future projects within professional pig farming.

**DESIGN**

**GENETICS**

**FINANCES**

**SLURRY SYSTEM**

**GREEN ENVIRONMENT**

**HOUSING TECHNOLOGY**

**FEEDING AND GRAIN STORAGE**

**EDUCATION AND MANAGEMENT**



# We cooperate with...



## **FOOD NATION** **Solutions of tomorrow. By Denmark**

Would you like to explore how Danish know-how can contribute positively to your business? The Danish food cluster has a strong value chain, including primary and processed food production, food technology, ingredients, know-how and research to the wide range of products available.

A vital part of the Danish food arena's DNA is the tradition of looking for better ways of solving challenges – and this covers the whole value chain, from environmentally-friendly agricultural production to the reduction of food waste.

Food Nation is a public-private partnership established by the Danish government and leading private organisations and companies. Join the Danish food cluster as a business partner. We are gateway for international stakeholders seeking information about solutions, products and cooperation.

Find us on: [www.foodnationdenmark.dk](http://www.foodnationdenmark.dk)



**MINISTRY OF FOREIGN AFFAIRS  
OF DENMARK**  
*The Trade Council*

## We support UN's 17 global goals





# +40 PSY



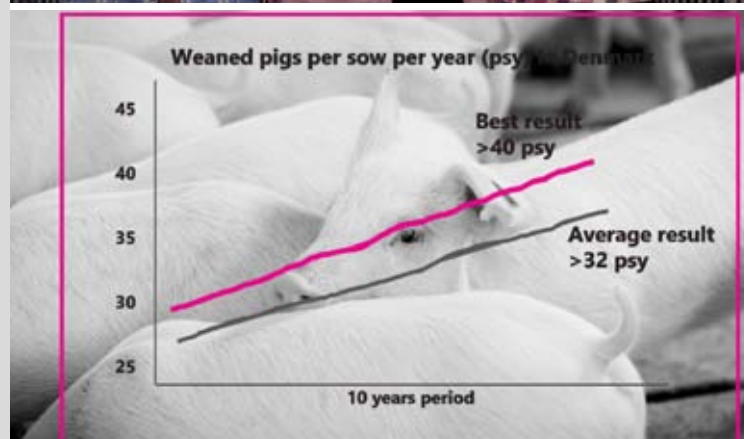
## Become one of the best!

Danish generations of experience and commitment adds up to the very best in pig farming: 40 piglets per sow, better animal welfare, sustainable solutions and a more profitable business.

For more than 100 years pig production has been an important asset to Denmark, both in terms of employment and export.

The Danish pig industry is among leading pig industries of the world in breeding, quality, food safety and traceability. Denmark is the world's leading exporter of pork. The key to this success lies in cooperation ensuring complete control of all steps in the production chain.


Learn more about us at [www.danishpigacademy.com](http://www.danishpigacademy.com).



**VISIT US  
AND LEARN MORE !**



# MEMBERS

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Full-line projects • Dry feeding • Liquid feeding •  
Penning • Slats and flooring

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#### **ACO FUNKI:**

**Danish Design | German Quality |  
Global Experience**

ACO FUNKI is one of the leading European suppliers of livestock equipment for pig housing. We offer full-line equipment for pig production including penning, flooring, dry and liquid feeding systems as well as components and ventilation.

The company was founded in 1933. Today, ACO FUNKI is a well consolidated company with representatives in several countries such as Denmark, Germany, France, Spain, Poland, Russia and China.

Since 2004 ACO FUNKI is a part of ACO GROUP - a leading drain system manufacturer with about 4.400 employees in more than 40 countries.

As a part of ACO, we have the opportunity to manufacture our products at ACO's own production facilities located in 15 countries, often close to the end user in order to offer the most competitive price.

ACO FUNKI is under a constant ongoing development. We aim to be the best on the market in terms of both price and quality. We permanently innovate and improve in order to offer our customers the most modern and efficient equipment.

#### **Turnkey Projects**

At ACO FUNKI, we have many years of experience with projects all over the world. We participate in the entire process, where we create individual solutions for you, down to the smallest details.



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### **AGRIFARM**

Over the years, we have developed unique barn concepts and, in particular, a number of innovative environmental technologies that have received more awarding prizes, such as Agromek prizes in respectively. 2009, 2012 and 2014 and the EU's environmental award in 2012.

Agri AirClean and the Intellifarm stable concept – both parts benefits the environment, the animals and the economy

**Agri AirClean – the safe choice**

Agri AirClean is a chemical air cleaner that effectively removes ammonia and odor emissions from all stables. The cleaner is particularly suitable for spot / floor extraction where the concentration of ammonia and odor is particularly high.

Agri AirClean is designed to be used in open stables, also cow stables, and therefore low temperatures do not prevent the air cleaning.

Agri AirClean makes it possible to gather more animals on fewer production units, thereby supporting efficient and economically sustainable livestock production. You produce your own NS fertilizer of the spared ammonia and chemistry, and therefore the Agri AirClean is an economically efficient air cleaner.

### **Intellifarm stable**

With Intellifarm you get a better environment, increase animal welfare and reduce energy consumption.

Intellifarm is equipped with a innovative ventilation principle, hybrid ventilation, where technology combines natural ventilation with a floor extraction which ultimately causes low energy levels.

### **5 benchmarks**

1. Production safety for the farmer.
2. Energy saving.
3. Reduction of environmental impact.
4. Effective logistics.
5. Animal welfare.



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## Slurry systems



### **Agrometer A/S: Agricultural Irrigation Systems**

#### **QUALITY SINCE 1977**

Agrometer is a world-wide supplier and provide you with state of the art solutions for professional users in private and public sectors. We are pump and flow specialists, and provide complete projects fully documented within agriculture, municipal, maritime and industrial pumping solutions.

#### **Slurry separation for Lagoons and Reduce phosphorus**

The Agrometer Screw Press is one of the most efficient solutions for separating fluid and dry matter. The fibers in the slurry can be removed in several ways with high capacity, up to 30 m<sup>3</sup>/h (cattle) and 40m<sup>3</sup>/h (pig) for each separator. Agrometer will supply you with the complete solution, including necessary controller, pumps and mixers.

### **The Slurry Spreader of the Future**

New generation of Slurry Spreaders, make it possible to spread the slurry in a more efficient way, with higher grain yield, still taking care of nature and improving the working environment. All communication is operated by wireless professional radio communication you can supply the slurry spreader with a modem for remote support and online troubleshooting.

#### **Mobile slurry pumps for long distance**

High-performance, mobile pump unit for continuous slurry pumping. Slurry transportation in large tankers on public roads is eliminated.

High capacity, Radio-controlled PLC, safety programs and cleaning system for emptying the hose with air and water.



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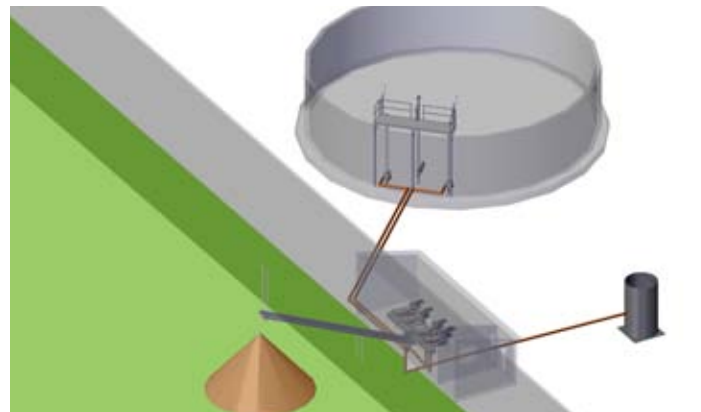
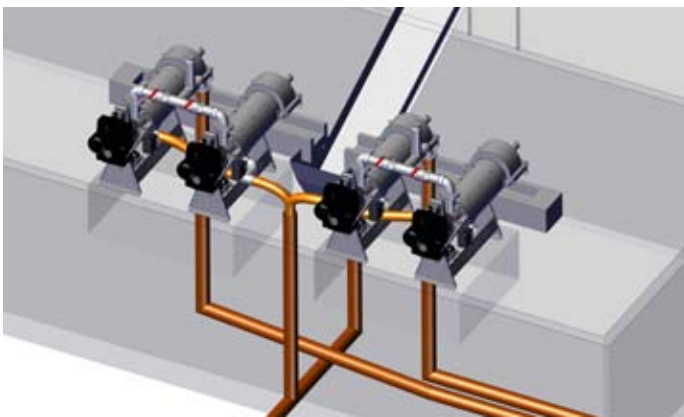


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**Agrometer a/s**



## Silos • Dry material storage • Transport equipment



### BM Silo

**We safeguard our shared world resources  
- from raw materials to educating people.**

BM Silo has more than 50 years of experience in the manufacture of products for storing and conveying of almost all types of dry materials such as grain, powder, coffee, granules, pellets and animal feedstuff etc.

BM Silo's unique modular system concept, allows BM Silo to meet the customer needs, offering lucrative, lifelong reliable and 100% tailored solutions.

All BM's silos are delivered worldwide in a compact packaging kit, facilitating for faster and low-cost transportation.

Learn more about the solutions BM Silo can provide you with by visiting [www.bmsilo.com](http://www.bmsilo.com) and find all about the company's history, expertise and product range.

### WORLD-WIDE

- Local dealers
- Customer adaptation
- CE - documentation
- High quality and service

### JUST-IN-TIME

- Flexible production
- Certified steel
- Statistical calculations

### COMPACT KIT

- 40 silos per container
- Extremely low freight costs
- Mounting: 2 men - 2 days
- Heat - treated container pallets

### MODULAR SILOS

- Complete solutions
- Optimum use of space
- From 0,14 m<sup>3</sup> to 91 m<sup>3</sup>



UN's 17 global goals



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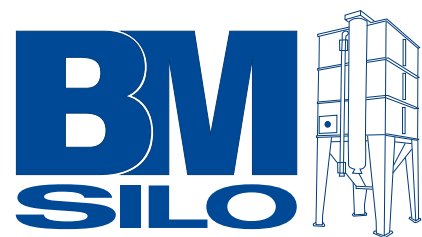
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## Slurry lagoons



### **Millag delivers and installs slurry lagoons worldwide**

Millag has installed covered slurry lagoons all over the world since 1997, giving our employees extensive experience in planning and constructing customer-specific slurry lagoons.

In close cooperation with our customers we find the ideal solution when meets the local authorities requirements.

Denmark has some of the most restrictive environmental rules in the world. The slurry lagoons are approved in Denmark under the Danish Agricultural Construction Specification sheet no. 103.04-30, which means that they also meet the requirements of most international funds in the EU.

The installation and assembly are done by engineers from Millag. They are certified according to Danish Standard DS 2383, which ensure that the installation fulfills the high demands of DS/INF 466.

The covered slurry lagoon is built according to Danish Agricultural Construction Specification sheet no. 103.04-30 consists of a safety membrane, alarm system, bottom membrane and covering membrane. A number of vents in the covering membranes allow the gas to escape.



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Export Sales

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## Courses & training

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### **Bygholm Agricultural College: Pig production – tailor made courses and training**

In companionship with members of Danish Pig Academy, Bygholm Agricultural College customizes all programs to the individual clients.

Based on your needs, Bygholm Agricultural College will design specialized tailor made courses with access to the strong knowledge base of Danish pig production. All programs are including a mix of lectures and excursions to relevant farms and companies as for example; boar station, feed mill, biogas plant, ventilation company's. etc.

Our goal is to combine key point lectures with hands on experience, in order to facilitate the best way of understanding and learning for the participant.

### **International courses**

Bygholm Agricultural College has provided tailor made courses and training activities within pig production for international clients since 2004, including participants from Russia, Serbia, Thailand, Korea and China.

#### **Content key words:**

- Best practice management in each production unit
- Health, disease and biosecurity
- Reproduction and breeding
- Feed and feeding
- Farm design and technology
- Production economy
- Animal welfare
- Farm work training

Bygholm Agriculture College has a vision to develop engaged, competent and visionary farmers and managers for the agricultural business, nationally as well as internationally.



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## Management system



### Cloudfarms: Pig Production Management System

The Cloudfarms Pig Production Management System is the first real cloud based multi-sited Pig Production Management System for large and efficient farms.

Our management system consist of:

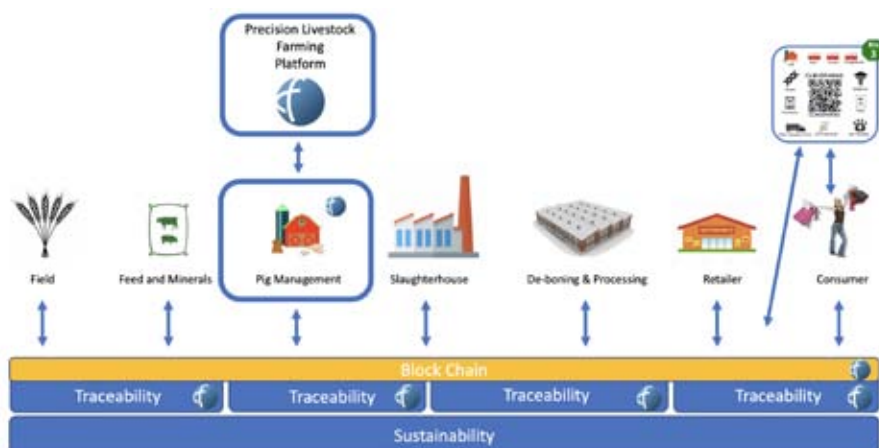
- **Core Pig Management module:** allows you to manage all the key functions on your farm and the basic reports
- **App for Android:** is optimized to capture data from the activities you are doing inside the stables. The mobile is very user-friendly so non-technical people easily can enter data. Data is validated instantly and warnings are displayed to the user if data could be wrong.

- **Analysis and hierarchy reporting:** You can in a easy way include those sites you would like to have consolidated into the same report.

- **Dashboard:** The custom dashboard function is an effective communicative presentation tool of your farm data with both graphs, gauges and tables which can be shown at monitor screens e.g. in the lunch room.

- **Benchmarking:** The benchmarking allows you to compare farms performance on all KPIs either between two farms or compare all farms in a holdig.

- **Forecasting and Budgetting:** calculated on your latest result we give you a full forecasting and budgetting, so you know how to handle in the future.



Cloudfarms  
[www.cloudfarms.com](http://www.cloudfarms.com)

Jens Toppenberg  
CEO

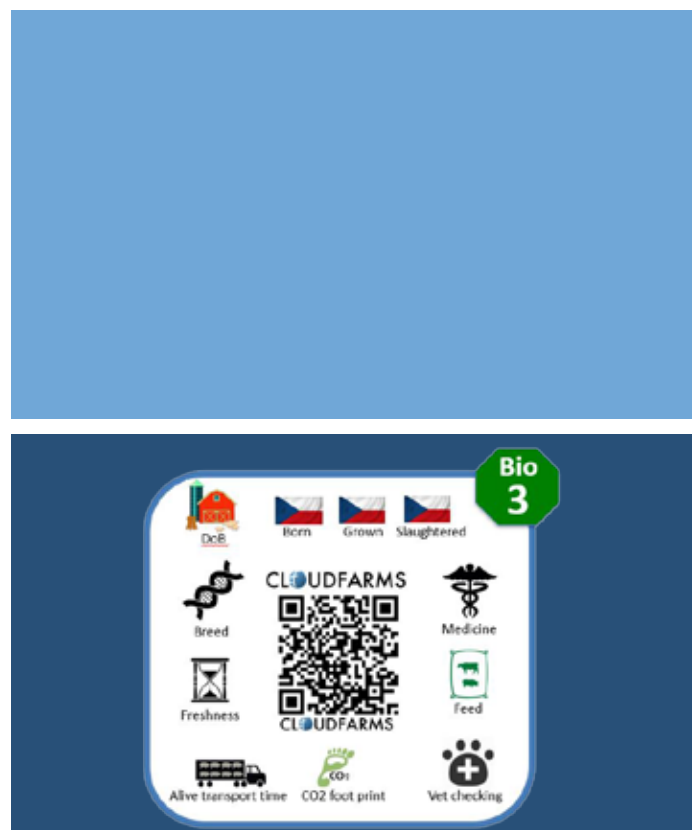
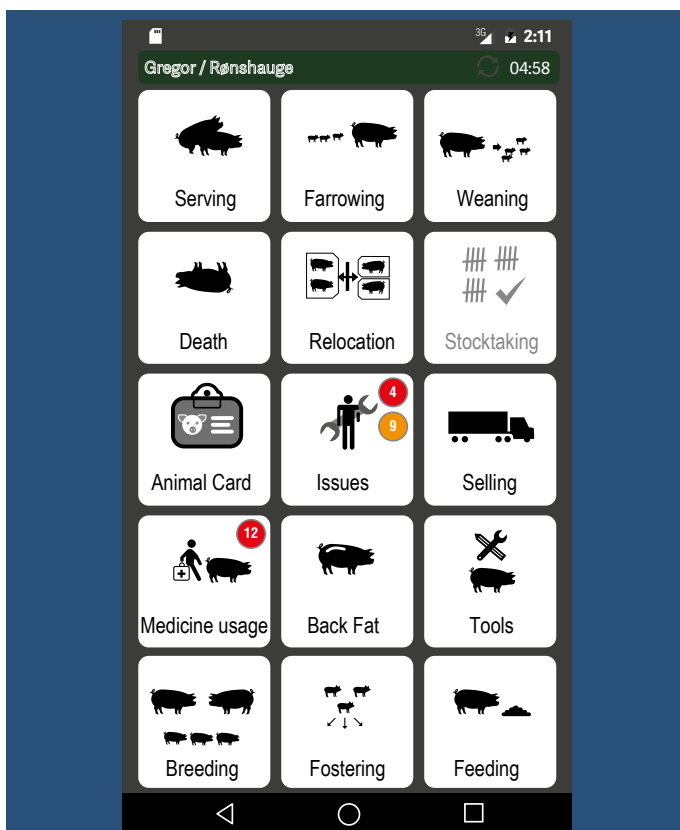
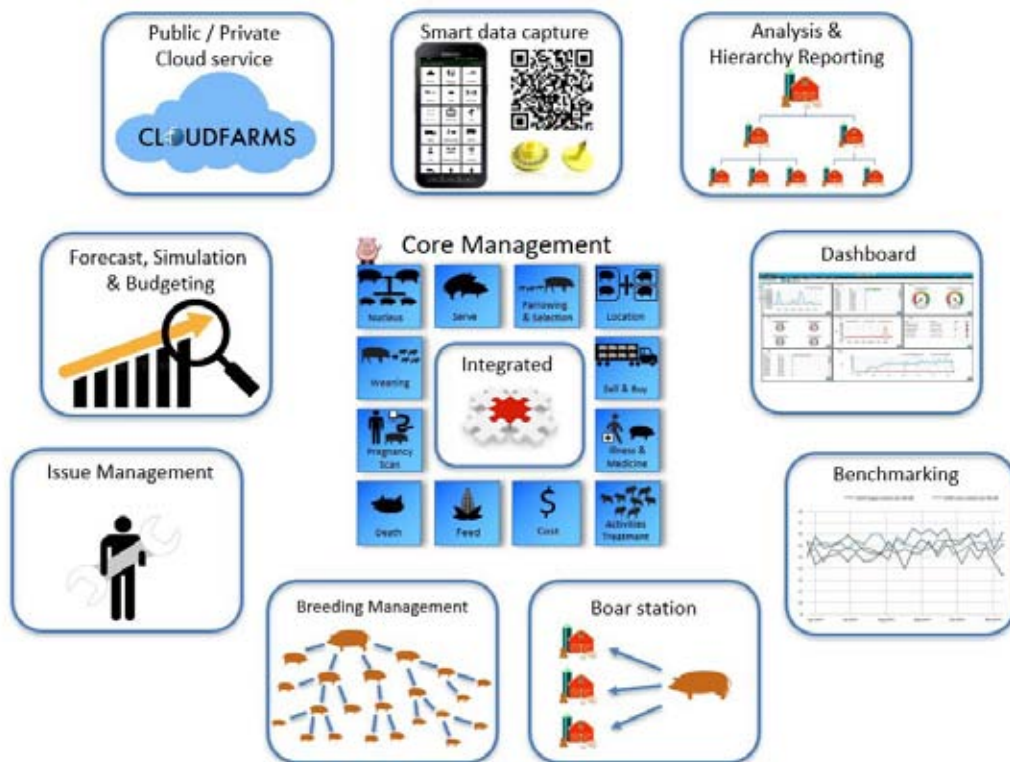
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# CLOUDFARMS



## Biogas



### Combigas: Complete Biogas Solutions

Combigas is an experienced and dynamic Danish company whose core business is to develop, design, implement and support complete biogas solutions.

#### Experience and innovation

Biogas technology converts a passive waste material into clean and sustainable energy. The Biogas plants are developed with respect for nature and the people who operate them.

The plants are built by professional contractors in close cooperation with Combigas employees who monitors the project throughout the entire process. Combigas want to ensure access to affordable, reliable and sustainable green energy for everyone.

### Collaboration

Combigas collaborates with a number of experienced and highly specialized companies within the biogas industry. The technology is thoroughly tested and operates on sites in Denmark and elsewhere in the world.

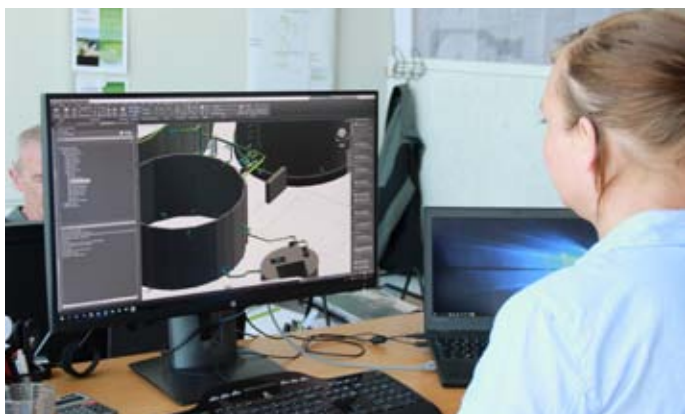
The Combigas concept is marketed throughout the world through a network of distributors who have financial strength, know-how and experience in the biogas sector.

- Analysis
- Design
- Construction
- Commissioning
- Support



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## Breeding



### DanBred

DanBred is one of the world's leading international pig breeding companies.

High-growth pig producers around the world choose DanBred for optimal and predictable business results, based on a foundation of well documented genetics and a comprehensive service solution offering.

DanBred is the first breeding company in the world to use genomic information from 100% of GGP and GP animals when calculating index. This makes the DanBred index the most modern in the world, very accurate and highly reliable.

We stand for healthy animals, innovation, transparency and knowledge sharing.

In 2018 DanBred launched The Manual ([manual.danbred.com](http://manual.danbred.com)), a complete guide to handling DanBred gilts. The Manual is available for all, either online, or downloaded as an app.

DanBred sets long-term and balanced breeding goals, which are revised every few years to ensure that the genetic gain in DanBred Duroc, DanBred Landrace and DanBred Yorkshire delivers maximum profit, creating a sustainable high return on investment in leading production herds. Our breeding goals can be found on [www.danbred.com](http://www.danbred.com).

DanBred P/S is owned by the Danish Agriculture and Food Council, Danish Agro and the former DanBred International A/S (now Holdingselskabet DBI A/S).



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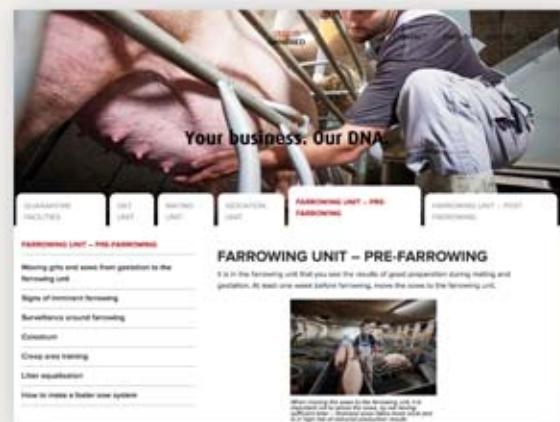


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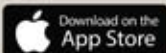
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## The guide to optimising the performance of your gilts and sows

- **Developed to help our customers** around the world set up good management routines around everyday tasks
- **Knowledge, skill and plenty of** practical experience
- **Step-by-step illustrated guides**
- **Tools for planning and monitoring** feeding, heat management, insemination techniques
- **Thorough advice on health and environment**, including water quality, lighting and temperature.



DOWNLOAD THE DANBRED APP



YOU CAN FIND THE MANUAL AT

[manual.danbred.com](http://manual.danbred.com)



## Breeding



### **Danish Pig Genetics P/S**

A solid foundation of more than 100 years' experience combined with state-of-the-art technologies and the world's leading genetics experts are the ingredients that make up one of the world's strongest breeding programmes, Danish Genetics.

Our goal is to optimise your pig business by supplying world-class genetics, because we know that our business depends on your business and your success!

Behind Danish Genetics are 25 of Denmark's most experienced nucleus farms, multiplication farms and global vendors. We offer a leading international breeding programme based on experience and innovation. Danish Genetics builds on more than 100 years of Danish development and research.

Our market is the entire world, and our genetics work and breeding programme match that. We work with leading genetics experts outside Denmark to

guarantee ongoing development and top financial returns which reach beyond Danish borders.

Roslin Technologies at Edinburgh University is our genetics business partner. A key player in the development of genetic technology and at the forefront of the latest research, knowledge and expertise. Roslin Technologies is one of the world's leading companies within genetics, genomic selection, pig breeding and biotechnology.

Roslin Technologies has a broad international perspective and develops breeding programmes and breeding targets that can compete in the global market, which enables us to deliver the very best products to customers around the world.

We always consider the entire value chain right from the genetic beginnings to food production. Our comprehensive view enables us to optimise the process, minimise costs and create better financial returns for pig producers all over the world.



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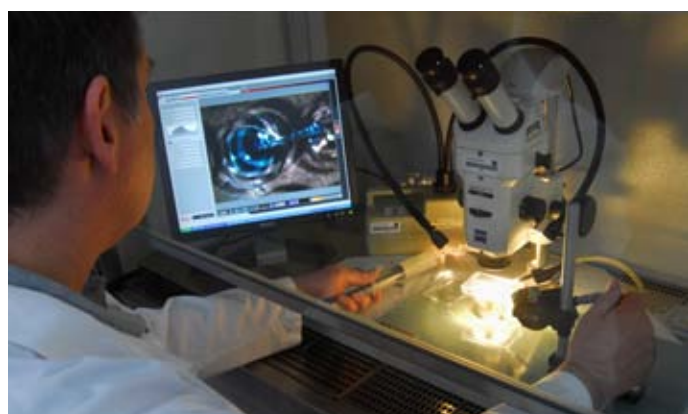


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# DANISH GENETICS



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## Nutritions & supplements

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### **DanVit A/S: Danish knowledge and experience**

DanVit provides customized feeding solutions and counselling in the using our high-quality products. We have many years of experience with feed optimization of high-quality minerals, concentrates and compound feed for pig producers.

Based on our knowledge and experience our customer gets the best profit by our products with an eye to gain, better feed conversion ratio and lower medication costs. We assist with analyzing the consequences of changes in diets and compare to the expected benefits of various mixtures.

DanVit is specializing in milk replacer solutions and provides a turnkey milk solution, comprised of an automatic feeding system and high-quality milk replacer powder facilitates the feeding process. We believe in providing our customers, and their piglets, with superior quality products.

### **The story of DanVit**

DanVit was founded in 2010 and have head office in Denmark. We have a subsidiary company in Serbia and in the light of that we can provide a close cooperation with the rest of Eastern Europe. By our customers we are known for a very trustworthy supplier of customized feed solutions for pig producers with high focus on customer satisfaction and high-quality for cost-competitive prices.



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## IT solutions

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### **DLG Connect: If you are tired of obscure IT solutions**

DLG Connect it is a professional advisor and sparring partner within all forms of IT.

We serve as your IT department - and with our nationwide team of IT consultants as well as hotline / remote support, help is always near.

#### **PROFESSIONAL IT TECHNICAL SUPPORT**

- Cabling
- Electrical couplings
- Routers
- Switches

- Antennas
- Cameras
- Network segmentation with delegated control between individual users on the farm.

#### **CONSIDER HIGH TECHNOLOGY IN NEW PROJECTS**

- Complete IT-solutions
- Assistance in functionality of hardware and software
- Assistance in installation of software
- Internal/external hardware
- General assistance for users
- Professional help every time



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### **EKF Denmark's Export Credit Agency: Financing to buyers of Danish pig production equipment and services**

Purchase Danish goods and services, and benefit from stable, long-term financing at competitive rates.

Danish suppliers offer a diverse range of goods and services. With help from EKF, these highly capable suppliers can also help you finance your purchase.

EKF can help you, if you are looking to

- buy Danish goods and services
- secure a credit to go with your purchase
- benefit from a stable financing solution at competitive rates

### **Secure your financing**

If you need long-term financing to buy goods or services from a Danish company, EKF, together with a bank, can help you arrange financing from the supplier.

Or, if you plan to purchase goods or services from various Danish companies, we may be able to arrange a shopping line covering multiple contracts. This enables you to make purchases from multiple Danish suppliers with the peace of mind that the financing is already in place.

We are EKF, Denmark's Export Credit Agency, owned and guaranteed by the Danish state. For almost 100 years, we have helped buyers of Danish products and services obtain AAA-rated financing by covering the financial and political risks of international trade.

To read more about EKF, go to [www.ekf.dk/en](http://www.ekf.dk/en).



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DENMARK'S  
EXPORT CREDIT AGENCY

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## Nutritions & supplements



### FERMENTATIONEXPERTS

specializes in the development and production of complementary protein feed for animals based on lactic acid fermentation.

Our feed is suitable for pigs, poultry, ruminants, pet food and aquaculture. Our unique formula and high-quality products reduce the need for medical zinc and antibiotics and eliminates unwanted bacteria in the production, while at the same time increasing intestinal flora among sows, piglets and finishers. Ultimately, this makes an optimization of farmer's business and bottom line.

### HEALTH BENEFITS

- Stronger and more uniform piglets
- Increased milk production from lactating sows
- Higher daily weight gain for finishers
- Improved feed conversion

- Change in bacteria pressure in the barn
- Noticeable reductions in use of medical zinc and antibiotics

### World patent products

Our patented fermentation process applies natural co-products such as rapeseed, seaweed, sugar beet, wheat and soy. The fermented and dried protein feed improves gut flora and animal welfare, while at the same time improving the absorption of nutrients, leading to reductions in feed intake and increased weight for finishers.

### About us

Our production facilities in Denmark, Ukraine and USA focus on sustainable production and utilizing plant and protein resources locally. Our products are available through EUROPEAN PROTEIN, [www.europeanprotein.eu](http://www.europeanprotein.eu).



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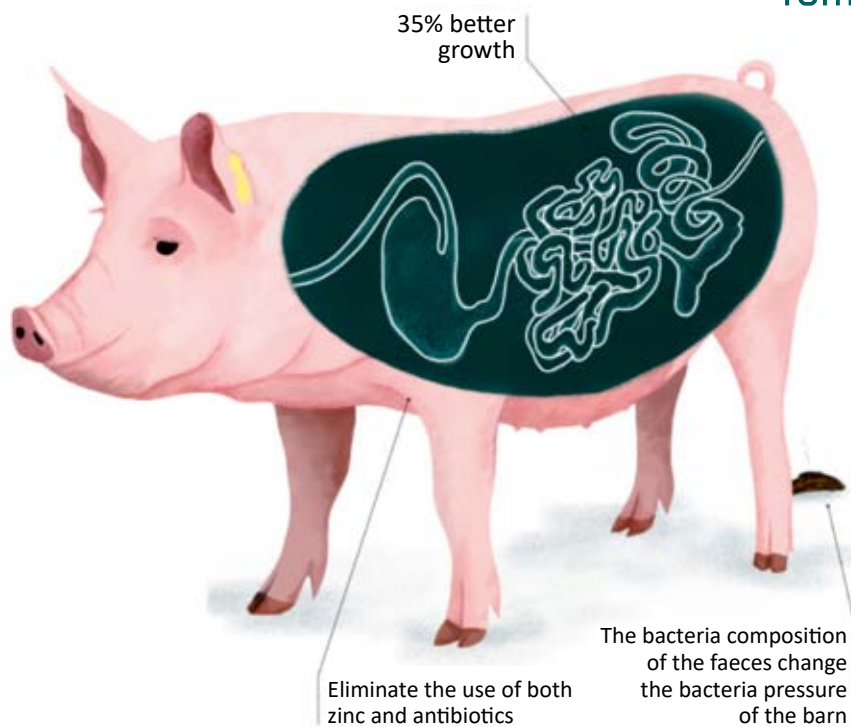
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Tomorrow's solutions  
...today



RAPE SEED MEAL



SOY BEAN MEAL



SEA WEED



## Slurry systems



### **Fog Agroteknik: Agricultural Engineering and Trading**

Fog Agroteknik A/S is a Danish company founded in 1972, with subsidiary companies in Poland, Russia and China.

Fog Agroteknik A/S is specialized in designing and manufacturing world leading slurry "Straight Flush" system for modern pig farms.

The "Straight Flush" system has been an innovative solution for modern pig farms and the leader in the market with more than 50% of the market share ever since.

Fog Agroteknik A/S has exported their products to more than 35 countries in the world since 1982. Today a lot of pig farms worldwide have installed Fog "Straight Flush" system.

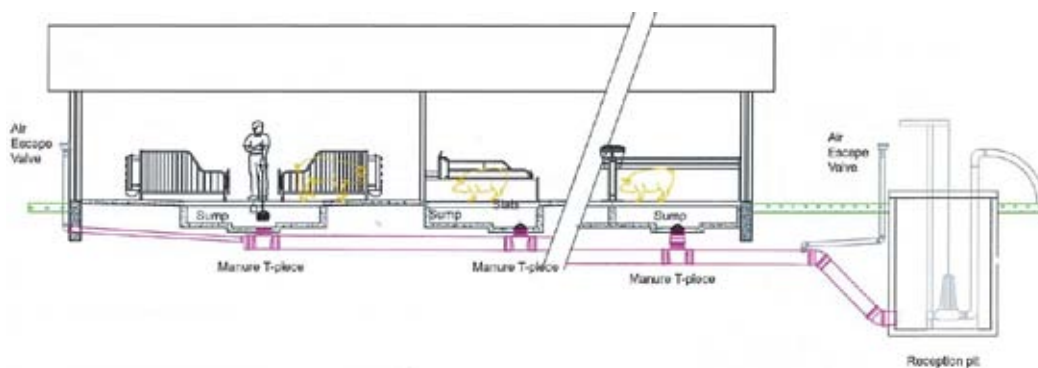
Through decades of improvement, Fog "Straight Flush" system has followed the demand and development within modern pig farms to provide optimal solution of slurry to their clients.

### **FOG SYSTEM**

Fog slurry system is designed to provide a fast emptying of slurry canals with pure pig slurry under the slats through a pipe system from the canal in the pig house to a reception pit.

The system is constructed with our special PVC fittings and PVC pipes. The plugs are made of PEHD, mounted with a rubber ring. The plugs lay on a stay inside the pipe which gives an optimal tightness. The system is available in 200, 250 and 315 mm.

Fog system shall be designed according to our technical requirements in order to create a closed pipe system with under pressure (vacuum) for quick flush.



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# III|Fog Agroteknik A|S



## Farm management



### **GrainIt: Farm Storage Management**

GrainIt is a cloudbased farm storage management system, that is using data to keep track of inventories at farms - and give farm managers overview of storage facilities.

#### **GrainIt is:**

Apps for iphone og android for registration of grains – done per load put into storage. The app handels quantity, origin and location, as well as moisture per load. Can handle quantity in kilos and units (as an example bales of straw). Also other functions.

#### **Webportal with inventories and setup:**

Setup could be:

Storage units: farms/sites, warehouses and bins

Fields: numbers, names, ha and crops

The webportal also handles purchases, sales, movements and status-registrations.

#### **Datahub:**

GrainIt is build around an data-engine, that enables transfer of feed purchases from feedproducers to the storage management system throgh grainit - all kinds of data can be handled. One entry point for everything.

Also sale of grains and purchases of crops can be handled in the system

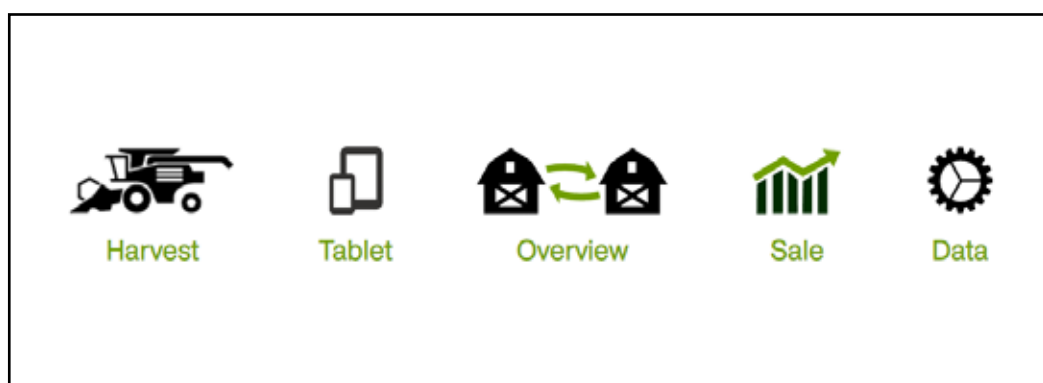
#### **Trace origin of the crops:**

GrainIt can track and trace origin of crops from where they were harvested to where they are put into storage.

#### **Automatic registrations:**

Grainit can collect data to feeding mills, feeding computers and weigh cells for automatic registration of consumption. That makes it possible to get a total overview of stock on all locations.

Grainit can also connect to a bridge weight to secure accurate registrations of everything entering and leaving the farm.



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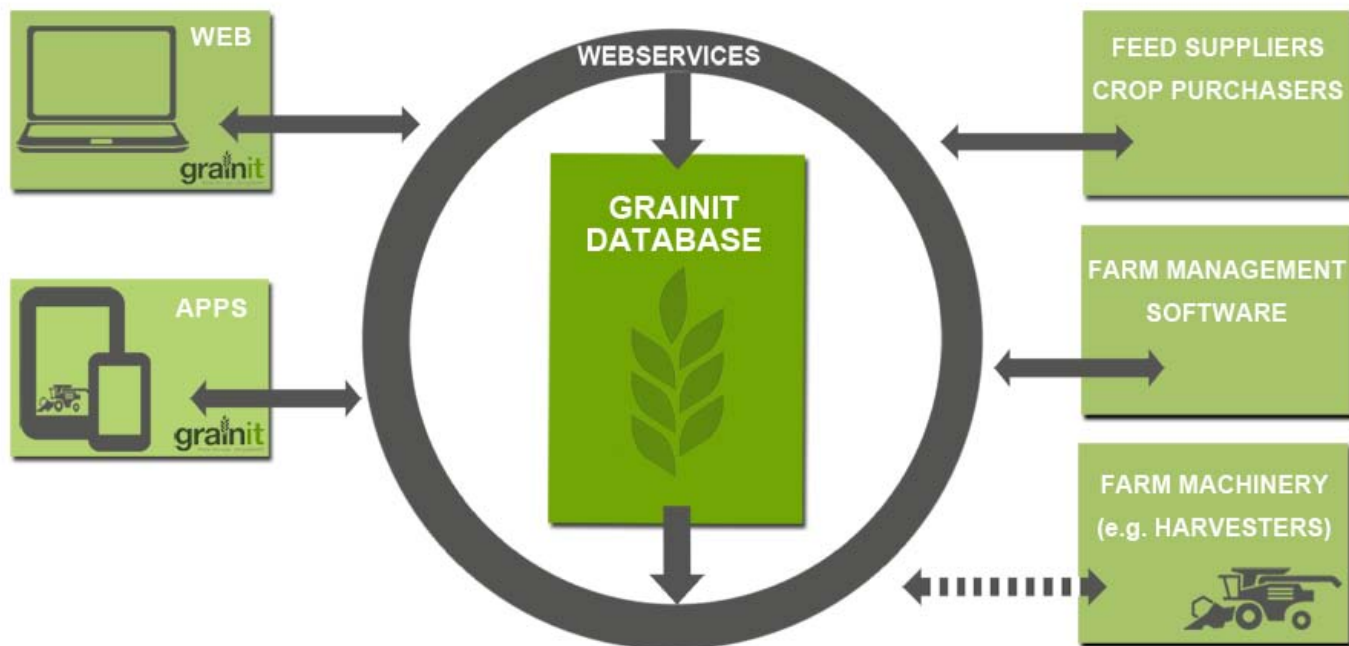
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## Nutritions & supplements

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### HAMLET PROTEIN

HAMLET PROTEIN promotes health, welfare and performance of farm livestock through soy-based specialty proteins for young animal feed. Around the world, our products are known to deliver an efficient, high quality source of vegetable protein with a strong return on investment.

HAMLET PROTEIN's activities are directed towards demanding applications for young animal feeding. The combination of an efficient reduction of the anti-nutritional factors to a safe level, nutritious proteins and special flavor is unique, offering our customers products that will efficiently increase productivity.

Carefully developed compositions of our products reflect special requirements of young animals. Our products comprise a unique combination of desired properties in piglet feed. An emphasis on the quality of the feed at an early stage of life is proven to be a sound investment in strong and uniform growth of young animals.

Our head office, research and innovation center and pilot plant facilities are located in Horsens, Denmark. We have production plants in Horsens, Denmark and in Findlay, Ohio in the USA. We also have a sale office in Qingdao, China covering China and South East Asia. All products and services are accessible through our global distribution network.



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# HAMLET PROTEIN

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## Conveyor systems

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### **JEMA – Grain handling for industry and farming**

JEMA develops and produces complete conveyor systems for use indoors and out, for grain, seeds and granulates. Vision and efficient processes mean we can work proactively to make the transition from industrial product to a food as effective and careful as possible.

Our product range includes chain conveyors, chain and bucket elevators and belt conveyors.

JEMA's R&D department is a key element for our competitiveness. Apart from continuously adapting and improving existing products, our designers work on new, visionary ideas and processes every single day. Our aims are ambitious - to be at the leading edge, developing and producing conveyor solutions for industry and agriculture.

This is not a process in which we are following others, we take the lead. Our experience coupled with modern technology and innovative thinking paves the way for new, highly specialised and technological solutions.

Production at JEMA is efficient and precise. Our objective is high quality, short production times and delivery on time.

JEMA believes strongly in partnering with construction contractors anywhere in the world. In fact, we're happy to call them partners, rather than customers.

Consultancy, trust, transparency and logistics are the foundations we build partnerships on, and we are always happy to be involved in project planning.

We exchange drawings, requirement specifications and experience, and are always accessible to plant owners, no matter where you may be in the world.



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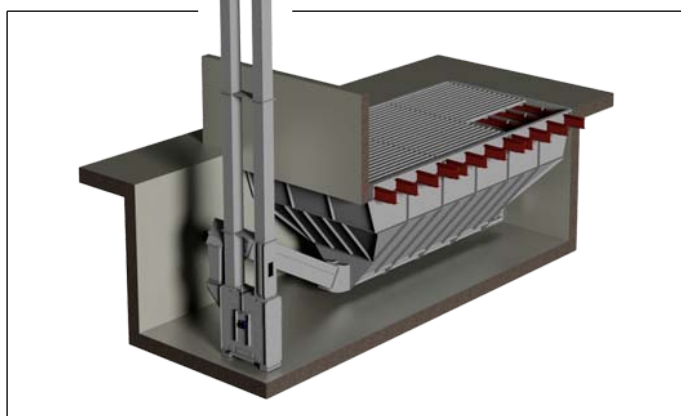


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# JEMA

ENGINEERING ➔ GRAIN HANDLING ➔ TOGETHER



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## Waste energy recovery solutions • Slurry cooling solutions • Heating • Cooling

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### **Klimadan A/S: Danish green technology for Pig Farms worldwide**

Klimadan A/S designs, produces and installs customized, high quality “Waste Energy Recovery solutions” utilizing heat pump technology.

For pig farms we install the solution, “Slurry Cooling” which recovers energy from slurry (manure) by cooling it down. Klimadan has more than 35 years of experience with designing and implementing Slurry Cooling projects in Denmark and abroad.

The benefits of a “Slurry Cooling and Heat Recovery Solution” are:

- Reducing ammonia emissions (up to 30%) by cooling the slurry
- Reducing smell emissions (up to 25%)
- Re-use the free energy from the cooling process, to heat e.g.

farrowing and weaner stables, buildings and bath water

- “Spot cooling” – e.g. cooling a specific area for the sows or cooling of rooms, e.g. office, medicine, or mortuary

The result is an efficient, low cost and almost maintenance free, heating and cooling system.

Using the slurry cooling and heat recovery system also provides a sustainable energy source, free of fossil fuels and therefore contributes to reducing Co2 emission. Klimadan is ISO 9001 certified and offers BATT approved ammonia- or/and smell emission reducing technology.

Klimadan is represented in Asia through Greenmaq.com – a joint venture company between Klimadan and Malaysian Aumada.



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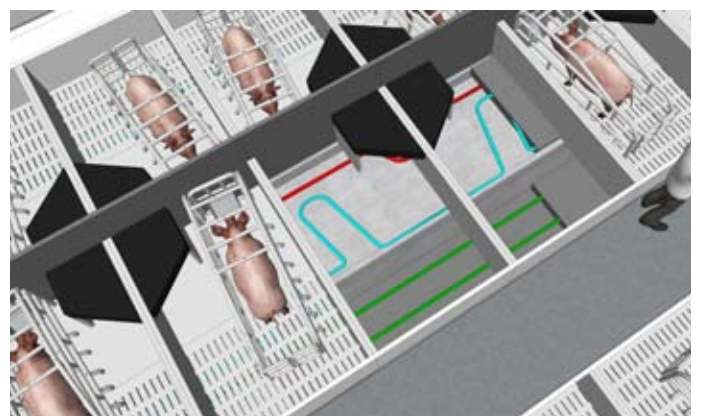
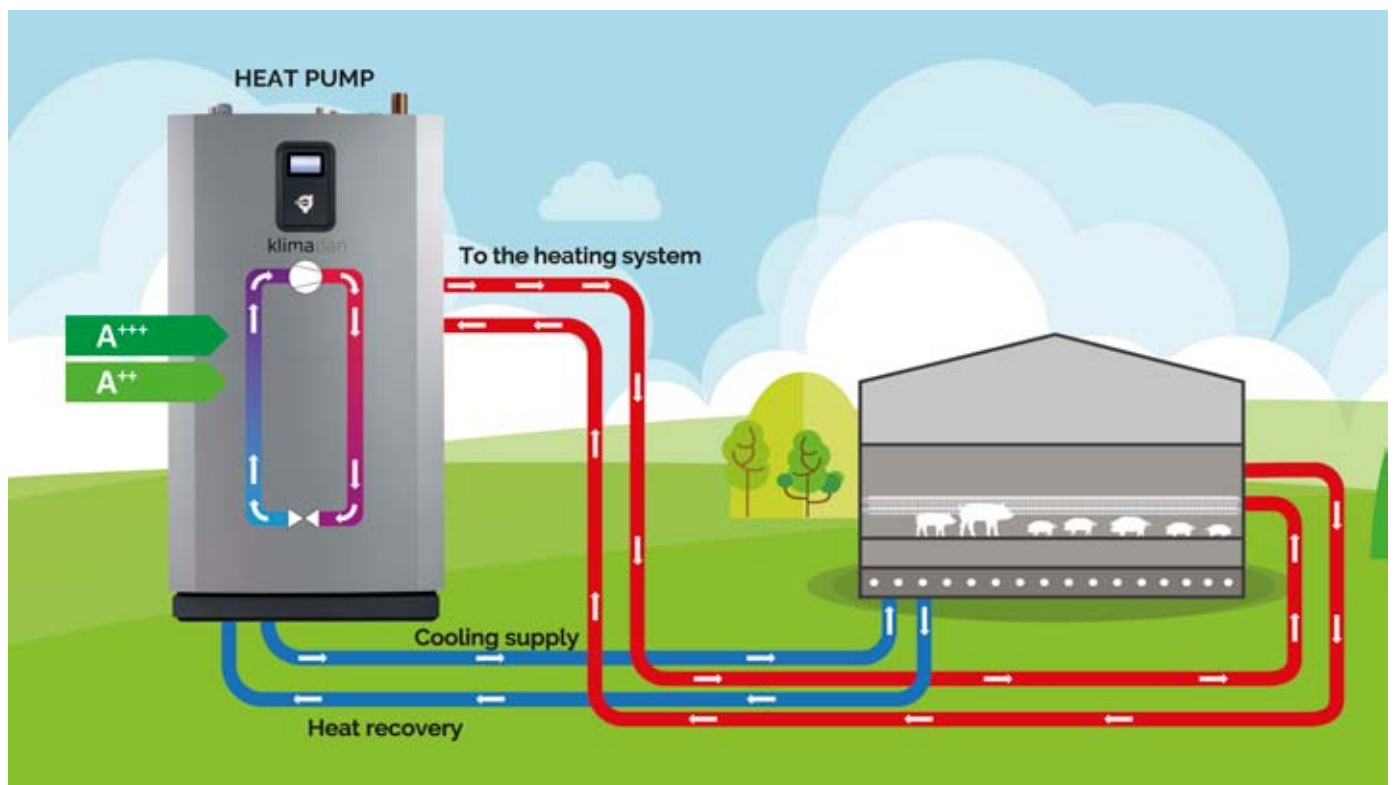


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# klimadan



## Slurry



### **Landia A/S: Global company with Danish roots**

Landia was founded in 1933 and is today a modern, successful manufacturer of a comprehensive range of chopper pumps, propeller mixers and aerators, offering customised solutions and systems for difficult to handle liquids with high dry matter content, liquid biomass and other organic waste.

Landia is a leading supplier of high-end slurry solutions to pig producers all over the world.

Landia is in a constant ongoing development and we aim to be the best player on the market and deliver the best quality - all over the world.

Our customers are involved in agricultural slurry handling as well as in the conception and construction of biogas plants, municipal and industrial waste water treatment, processing of by-products and waste from the food industry.

We support our customers through our subsidiaries and offices in the UK, Germany, Norway, the US and China – plus a worldwide network of professional distributors.



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Sales Manager

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# Landia®





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## Manure handling systems • Scrapers • Slurry agitators • Slurry pumps

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### **LJM – Lind Jensen Agri: Fully automated slurry handling**

At Lind Jensen Agri, we have nearly 50 years of experience in manufacturing and fitting manure removal systems. This means that today we can build our production and development on more than 5000 reference plants in the world.

### **Tailor-made solutions - Wire-type barn cleaners**

Wire-type barn cleaner from Lind Jensen Agri are specifically designed for fitting in slurry channels under slats and they are therefore particularly suitable for use in pigsties of any size and shape.

We offer tailor-made solutions which guarantees the correct size, lay-out and space conditions of the barn/pigsty fully customized to the actual conditions.

### **Strong assortment of slurry agitators**

Lind Jensen has a complete product range of slurry agitators for the homogenization of slurry in reception tanks, storage tanks and slurry channels. The shape of our propellers is specifically designed to be as energy effective as possible and for the challenges of handling liquid manure with low and high dry matter content.

### **Durable pumps for any challenge**

Lind Jensen Agri manufacture and markets a wide range of submersible pumps, piston pumps and dry mounted pumps that effectively solves the farm's need for pumping.



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Dennis Port  
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**LJM**  
LIND JENSEN  
AGRI

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## Farm management • Ventilation



### Munters: Your Perfect Climate

The biggest challenge agriculture is facing is that the population of the world is growing but there is no more land to plow. By the year 2050 we need to produce 60% more food than we produce today, but there is only land available to produce 20% of that need, the other 80% need to come from being more efficient. That's where Munters come into the equation.

Any place where we put animals or plants inside a building climate control is needed. That is what Munters do. We take the undesirable outside conditions and we change them into totally desirable conditions for the inside of the building.

Munters was founded by ingenious inventor and entrepreneur Carl Munters in 1955. The business unit in Denmark (located in Aars, known as the former Turbovent Agro), became part of Munters in 2007.

Munters is a global market leader providing energy efficient climate control solutions

for the aghort, food, pharmaceutical and data center sectors. Today represented in 30 countries by around 3,500 employees.

The Munters Agriculture Division has many years of experience in development, sale and delivery of complete solutions for pig producers worldwide. Munters offers today ventilation systems, air cleaning solutions (ammonia and odor reduction), climate control, management programs, fresh air filtering, different types of heat distribution, heat recovery, and different types of cooling, curtain systems, and monitoring and data collection equipment in production.

We take great pride in contributing to create the future stable environment in close cooperation with pig producers in Denmark as well as in the rest of the world - focusing on welfare, environment, economics and "best practice".



INCREASED PRODUCTIVITY AND  
SUSTAINABLE FOOD PRODUCTION



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## Farm management • Ventilation



### **SKOV: All-in solutions from a single supplier**

SKOV is an industry leader on the international market for climate control and farm management for animal production. We contribute to an efficient and sustainable global food production!

For more than 40 years, SKOV has supplied systems and components for agriculture all over the world. SKOV's ventilation and farm management systems provide pigs with a healthy house climate and optimum conditions for well-being and growth.

SKOV's headquarters is situated in Denmark and the company is represented internationally by sales departments, dealers and service experts in all important markets with animal production.

SKOV has representative offices in more than 20 countries around the world and subsidiary companies in Thailand, China and USA. Further, we are represented by distributors on more than 70 markets on all continents.

We have delivered equipment for more than 100,000 houses worldwide and our annual turnover for 2018 was approximately 110 million EUR. Today we have a staff of more than 380 committed employees



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*Climate for Growth*

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Grain handling, storage & drying facility •  
Silo dryer • Conveyor • Elevator •  
Mobile auger • Turn key

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**Sukup Europe A/S:**  
**Quality, Strength and Efficiency**

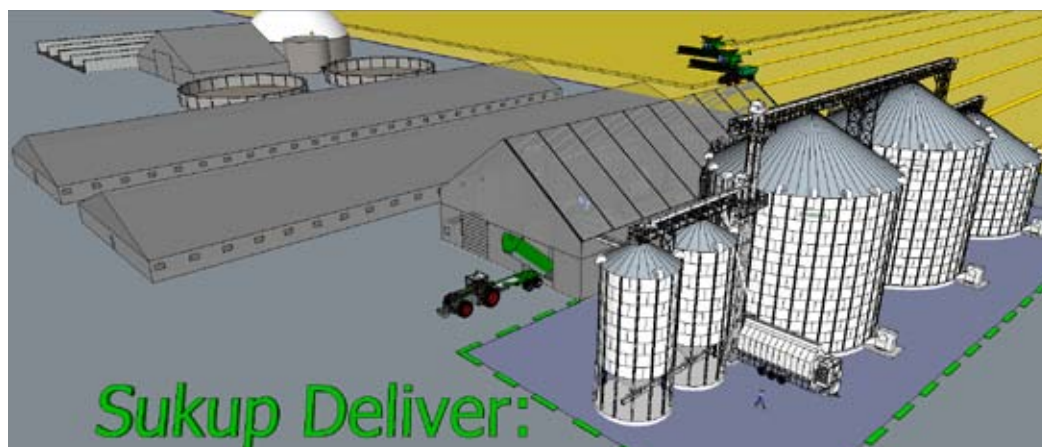
The company was founded in 1955. Since then, we have endeavored to use our practical experience from our own farm with the latest ideas in our product innovation.

Today we are one of the oldest companies within our field. The first 60 years the company was operating under the name DanCorn, and today we are a part of Sukup Manufacturing and promoted as Sukup Europe.

The sales are today both being done through dealers and as direct sale to endusers. Hereby we secure the use of our many years of experience in the development and assembly of grain and seed handling plants.

**Don't gamble - but be sure to win!**

We offer a wide range of high-quality products that can be mixed and matched to meet your demands and needs, financial situation and plans for the future.



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## Slats & flooring



**Sunds Alfa:**  
**A brand at the family owned company IBF**

### **Why choose slats from us?**

We urge continuously to innovate, create and develop concrete slats and concrete flooring systems that meets the ever sticker demands regardless the demands are based by animal welfare legislations or if the demands have any kind of environmental character.

It is our aim to produce slats that lasts for decades, slats that are extremely friendly towards to the animal (especially hoofs and legs) in the understanding that comfortable animals makes the best outcome.

Besides this, our slats are easy to install similar when fastening the penning system onto the slats, because of the equal thickness of the slats all over.

### **Durable slot openings**

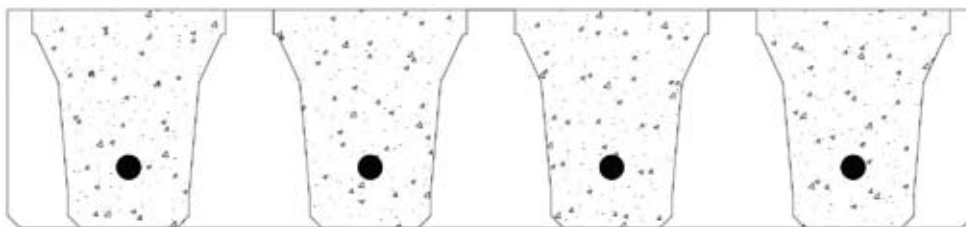
When using SundsAlfa slats you will notice a significant difference when it

comes to how clean the slatted floor are. Our design of the slot openings below floor level where our slot openings widen quickly, manure passes through easily, even when mixed with a lot of straw – it does not get stuck in the openings.

Tests at Foulum research institute (Aarhus University) have proven that our slats can handle a very high usage of straw, as much as 150 g of straw per animal per day without any negative impact of the cleanliness of the pens.\*

### **Slats with insert of long lasting plastic**

On top of this, you find our DUO-slat. The DUO-slat is a specially designed concrete slat with a prefabricated, acid-resistant, plastic insert made of long lasting Poly Propylene (HDPP) plastic as a protective coating. The layer prevents corrosion of the concrete under and around feeders and troughs. Of cause with a non-skid/slip surface.



\* Tested with significance  $P = 0,14$  (no significance)

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## A.I & farm supply



### Unitron A/S: Operating worldwide

Unitron a/s is a Danish company with more than 30 years of experience with products to farmers, especially in the pig industry. Unitron a/s takes pride in knowing that the products turns into greater value with the right management. That is why Unitron a/s can offer the assistance of our professional FarmSuppliers to incorporate the right management according to the purchased products.

The product program consists selected quality products, recommend by us, to meet the demands in modern livestock.

For more than 30 years we have served and instructed pig breeders in the use of Artificial Insemination (A.I ) on farm. In doing that we have achieved a considerable expertise in the reproduction process in livestock.

The Danish industry, with its long history of involvement in pig production can rightly claim to be at the cutting edge of the world pig technology.

As a Danish company, our main partners in the evolution of A.I. techniques are, of course, Danish breeders and boar stations and together with them, we have developed considerable knowledge which we have been happy to share with our many customers across the world.



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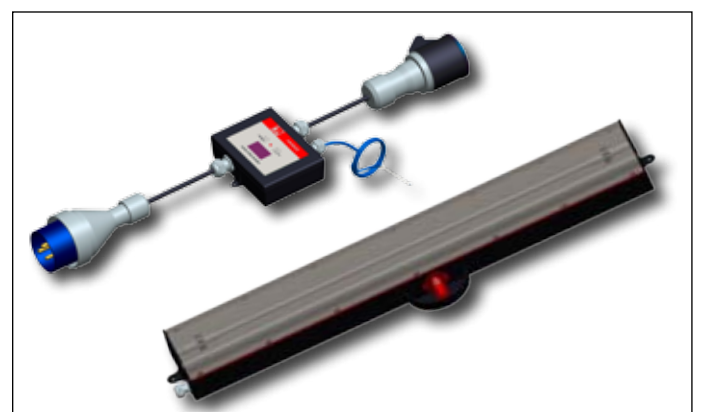


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Unitron a/s





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## Premix • Minerals • Additives & biosecurity

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### **Vilofoss: a strong brand for premix, minerals, vitamins and additives**

Vilofoss creates value-adding solutions for the globally competitive farmer through customized farm mixes for the animal production. In addition to our vitamin- and mineral compounds, we offer a wide range of supplementary products, e.g. milk replacers for calves and pigs, veterinary products, welfare products, products for disinfection and other unique troubleshooters.

The size of the group and the relation to the Danish DLG make us a valuable adviser and partner for the agricultural sector. Our commitment is professional consulting targeting at the optimization of our customer's performance.

### **Vitamins and minerals for on-farm mixers**

Landmix is our recognised high-quality mineral mix for an efficient pig production.

### **With Landmix, you will benefit from:**

- Advice and technical backup
- High-quality raw materials
- Vitamins and minerals for optimum herd performance
- A mineral mix composed according to Danish standards

### **Worldclass Piglets - the advisory concept**

Worldclass Piglets is part of the Vilofoss-concept and supports you, the farmer, in utilizing the piglets' full potential.

### **Focus areas:**

- Hygiene strategy
- Transfer of pigs
- Feeding strategies
- Healthier pigs and reduced medicine consumption
- Improved productivity, leading to improved economy
- Cooperation between you, your local herd consultant and the Vilofoss Nutritional Adviser



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# VILOFOSS®

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## Wash robots



### WashPower A/S

At WashPower we work determinedly on developing professional cleaning products which automate manual cleaning processes.

Our focus is on improving the working environment for our customers and minimising the time spent cleaning.

We are a strong team of dedicated employees who, from our base in Denmark, develop, supply and service cleaning machines for both the Danish and international markets.

The common denominator in all our products is that they are based on the customer's day-to-day work.

We work hard to develop strong, reliable cleaning machines that can improve the customer's finances through increased flexibility and time saved on cleaning,

so that employees are freed up to do other things. After 5 years of development and testing, our wash robot, ProCleaner X100, has come on to the market and is already proving to be a success with more than 250 Robots sold in EU.

We are proud to call ProCleaner X100 the ultimate wash robot.

ProCleaner X100 is described by customers as being "... an efficient and reliable help in our day-to-day work".

ProCleaner X100 is a powerful, flexible and reliable wash robot for cleaning the vast majority of types of pig house.

The machine is simple in its construction, but houses an effective and high-tech wash robot that can tackle even the largest of jobs.



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# WASHPOWER™

*professional cleaning systems*

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