

Take advantage of the high performing
Danish Pig Breeding Scheme – DanBred – continuously

generations ahead



Would you like continuous financial benefit from

genetic improvement



SERMSAK JIEBNA

Commercial pig producer, Thailand.

"Success with modern pig production requires efficient management, high yielding animals and ongoing focus on quality in all parts of the production chain. These key factors were focal points for us when evaluating different suppliers of breeding stock. Our choice of DanBred International as genetic supplier was second to none, as the company has proven themselves as a professional and committed business partner".

DanBred International represents one of the most efficient and coordinated breeding programmes in the world

DanBred is owned and controlled by Danish pig producers. It is the world's most comprehensive breeding programme as it embraces the vast majority of the total Danish slaughter pig production.

DanBred is dedicated to the task of providing optimum pig breeding solutions that ensure the highest level of productivity and profitability for the professional pig producer of today.

As a result Danish pork is renowned and respected as world-class value added products.

DanBred takes you generations ahead
- year after year.

With DanBred International as your business partner your pig production is well-prepared to confront future competition!

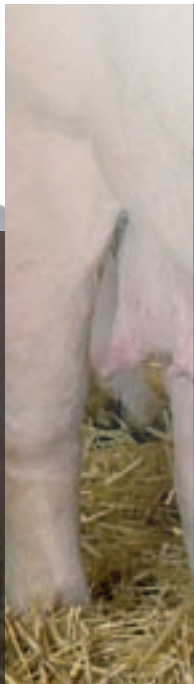
By cooperating with DanBred International you will profit from a professional partnership in which we show you how to integrate the benefits of DanBred breeding solutions straight into your bottom line

– become a DanBred Int. partner!



PETER RØNHOLT
Area Manager,
DanBred International.

“The Danish Pig Breeding Scheme is based on many years of breeding experience, comprehensive R&D-activities and a tightly coordinated genetic evaluation and selection system working through the full value chain resulting in superior breeding material to the benefit of progressive pig producers.”



Take part in a successful cooperation

DanBred is a transparent and open system and we can meet all your needs and demands providing you with the optimum solution for high quality breeding material and breeding strategies. Whether the need is

- purebred great grandparent (GGP) and grandparent (GP) breeding stock for in-house production of parent stock,
- parent stock (Danhybrid females and Danline terminal sires) or
- semen

DanBred International can become your new business partner supplying you with breeding stock of the highest quality and performance.

You may choose to purchase parent stock or to produce your own parent stock with DanBred genetics from GGP and GP purebred animals supplied from a DanBred nucleus.

Become an elite DanBred International multiplier

Perhaps you would like to apply to become an elite DanBred International multiplier producing Danhybrid females and/or Danline terminal sires?

Whatever you decide, DanBred International is committed to offering you customised breeding solutions to meet your exact needs, demands and wishes.

DanBred International

- Co-ordination
- Sale
- Support
- Nucleus Management

SPF programme

- Health
- Transport

DanBred multiplier herds

- Danhybrid females

DanBred nucleus herds

- Danish Landrace
- Danish Yorkshire (Large White)
- Danish Duroc
- Danish Hampshire
- Danline terminal sires



Danish pork is world famous and desired for its

uniformity and superior meat quality



THOMAS EBBESEN

Veterinary, Danish Bacon and Meat Council, The National Committee for Pig Production.

"In Denmark the nucleus and multiplier herds affiliated to the Danish SPF programme and the conventional breeding farms are free of all contagious diseases such as Classical and African Swine Fever, Foot and Mouth Disease, SVD, Aujeszky's Disease and Teschen's Disease as well as Brucellosis, Tuberculosis and Trichinosis."



Excellence through a combined effort and a long-term breeding strategy

Denmark is the largest exporter of pork in the world and is globally renowned for excellence in regard to production efficiency, veterinary health control and status as well as high standards of animal welfare, environmental regulations and food safety.

Among other things this is made possible by way of the focused and long-term breeding strategy followed by DanBred, as this is the sole background for achieving and maintaining an enhanced production by hyperprolific sows farrowing a vast number of healthy piglets with maximum genetic potential for high daily gain, excellent feed conversion ratio and superior meat quality.

One of the reasons for the success is the close cooperation between all parties in the pork value chain

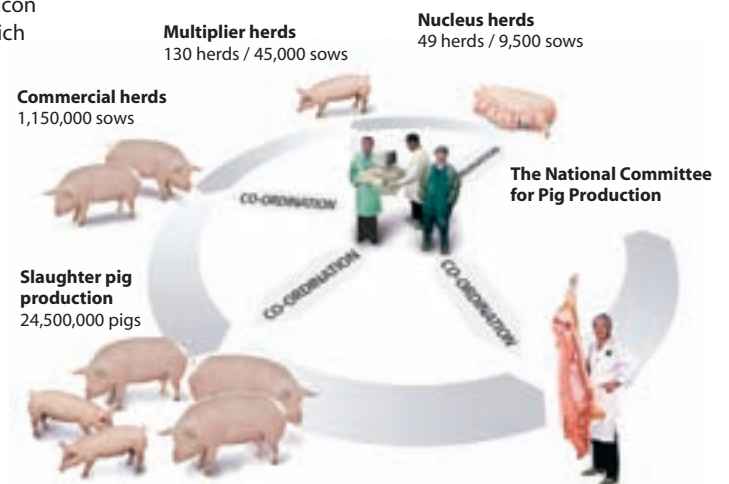
We have developed an efficient cooperation in order to achieve good results. DanBred is an organisation based on

knowledge, R&D-activities and strategic thinking evoked from more than 100 years of experience.

Developed by professional pig producers to satisfy the needs of professional pig producers

DanBred is controlled and coordinated by the Danish pig farmers via The National Committee for Pig Production, Danish Bacon and Meat Council, which among other things carries out the genetic R&D-activities, decides the breeding objectives, collects breeding data and calculates indexes for the total population of GGP and GP stock in the nucleus and multiplier herds.

This secures an optimum return on investment for the professional pig producers taking into account all financial aspects in the pig meat value chain – from the nucleus herd to the abattoir.



The National Committee for Pig Production controls and coordinates the Danish Pig Breeding Scheme based on the world's most comprehensive genetic population and defines the breeding objectives to be reached

through a **long-term** breeding strategy



STEEN PETERSEN
Head of Department of Breeding
& Genetics, The National
Committee for Pig Production.

"DanBred is unique due to its size and the tight cooperation in the full vertical pig meat value chain – involving all players from nucleus farmers to multiplier farmers and commercial pig producers as well as the abattoirs. It is the world's largest genetic nucleus population which is of paramount importance when we work towards maximum genetic progress".

The key to fast genetic improvement is the Danish Pig Breeding Scheme

It consists of:

- 49 nucleus herds with approx. 9,500 purebred GGP sows in total.
- 130 multiplier herds with approx. 45,000 purebred GP sows in total.

From these units DanBred collects genetic breeding stock data, calculates breeding values and carries out careful genetic selection that generates significant genetic improvement supporting profitable pork production to the benefit of professional pig producers worldwide.

The breeding objectives are the focal point in order to develop superior breeding stock. DanBred incorporates the following traits into the breeding objectives:

- Feed conversion ratio.
- Daily gain.
- Lean meat percentage.
- Prolificacy measured as the number of live piglets at day 5 after farrowing (LP5).
- Longevity/conformation.
- Killing out percentage.

Moreover, DanBred has emphasis on meat quality. Therefore, the deleterious versions of the halothane gene and the RN gene are completely eliminated from the DanBred breeding populations.

The largest breeding population in the world

The basis for obtaining and maintaining the highest level of breeding stock quality and performance within DanBred is one of the largest breeding populations in the world totalling approx. 55,000 purebred GGP and GP sows in nucleus and multiplier herds.

Exact knowledge of breeding values

These animals are performance tested on an ongoing basis resulting in a careful evaluation of the animals using state of the art genetic methods - the tool is exact knowledge of the estimated breeding values for each potential breeding animal. Based on this knowledge the optimum selection of AI boars and replacement females in the nucleus herds can be carried out giving rise to further genetic improvement in future generations.

High replacement of AI boars secures rapid and high level of genetic improvement

The best genes must be incorporated rapidly into the next generation in order to maintain competitiveness as a breeding programme. This is taken care of by using a high replacement turnover rate for AI boars as well as nearly 100 per cent use of AI when mating purebred GGP and GP sows in the nucleus and multiplier herds. The semen production and evaluation follow a quality assurance programme and restrictions are enforced in order to avoid inbreeding problems.

Thus, breeding stock and semen from DanBred are products of a dedicated work effort in order to provide professional pig producers worldwide with profitable genetic material that enables them to maintain their competitiveness.

The nucleus and multiplier herds with approx. 9,500 GGP sows and approx. 45,000 GP sows, respectively, have an important task in disciplined monitoring, control and recording of breeding data. This work is a precondition for rapidly and efficiently incorporating the best genes into future generations and thereby

securing fast **genetic improvement**



LAURIDS SØNDERGAARD
Owner of a DanBred nucleus herd.

"In the nucleus herds we carry out performance tests of each potential breeding animal, thereby establishing the background for the multiple trait BLUP based index calculation (EBVs), on which we make a careful genetic selection of the superior genetic stock as parents for the next generation of GGP stock. This continuous work enables us to reach and maintain a very high level of genetic improvement."



HENRIK BRIX
Owner of a DanBred multiplier herd.

"In the multiplier herds we transfer the genetic improvements to the commercial level at a higher speed and a lower genetic lag than any other breeding system in the world. Based on many years of experience with and knowledge from genetic research we develop the optimum parent female stock (F1s) for commercial herds from the best combinations of purebred GGP dam lines."



The nucleus populations represent the top of the breeding pyramid in the Danish Pig Breeding Scheme

DanBred has chosen to work with four different pure breeds that have proven their value: Divided into two dam lines (Danish Landrace and Danish Yorkshire/Large White) and two sire lines (Danish Hampshire and Danish Duroc), respectively, it enables us to integrate the benefits of the DanBred breeding stock straight into your bottom line.

The characteristics of the different breeds are described below:

- Danish Landrace (dam line)
 - supreme meat quality
 - excellent longevity
 - outstanding prolific ability.
- Thus, Danish Landrace is primarily used to produce parent female stock (F1s) to commercial herds when crossed with dam line Danish Yorkshire.
- Danish Yorkshire/Large White (dam line)
 - high leanness
 - excellent dam line traits
 - good production traits
- which makes it a good choice as GP



Danish Landrace



Danish Yorkshire



Danish Duroc



Danish Hampshire

dam line to produce F1s, when aiming for optimum hybrid vigour and profitability in the commercial herd.

- Danish Duroc (sire line):
 - outstanding feed conversion ratio
 - sublime growth rate
 - excellent carcass quality.
- The first choice as terminal sire among Danish commercial pig producers. When used to mate F1 commercial sows it provides offspring with high and uniform efficiency and consistent carcass quality, thus providing optimum product value in commercial production systems.
- Danish Hampshire (sire line):
 - high lean meat percentage.
- Ideally suited for producing hybrid terminal sires (HD boars) when mated with sire line Danish Duroc sows.

Comprehensive health control

All DanBred herds follow a health declaration programme, and the majority of the herds are affiliated to the Danish SPF-programme which ensures that DanBred operates and maintains the health status at the highest standards possible.

Pig producers who benefit from DanBred's superior breeding material obtain an optimum breeding solution. Combined with the latest knowledge, efficient tools and tight management this provides competitiveness

with **high yielding** commercial animals



KENT SKAANING

Commercial pig producer, Denmark.

"The competitive environment in the pig sector makes it necessary for professional commercial pig producers to use an efficient breeding strategy. Without such strategy it is impossible to obtain and maintain a profitable business. By using DanBred as genetic supplier I am provided with a genetic solution that is second to none – far better than any other breeding solution I have come across".

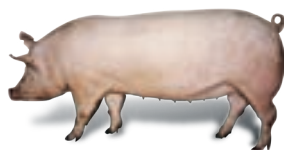
DanBred is able to implement significant genetic improvement at the commercial level

By using AI and purchasing purebred breeding stock from the nucleus herds, the multiplier herds produce hybrids that optimise productivity and profitability at the commercial level. In order to optimise hybrid vigour only first time crossing is taking place.

By using DanBred as genetic source the commercial producers secure financial gains and cost savings

At the commercial level Danhybrids between Danish Landrace and Danish Yorkshire from DanBred multiplier herds are accepted as the paramount female parent stock due to its good longevity and high performance in regard to production traits as well as maternal traits. By using Danline hybrid terminal sires or purebred Duroc terminal sires you will further improve your competitiveness. HD boars are characterised by good longevity and libido as well as excellent carcass characteristics. YD boars combine

the superb meat quality characteristics of Duroc with the high growth rate and feed conversion ratio of Yorkshire.



Danhybrid®



Danline YD®



Danline HD®

Access to support, advice and general genetic information based on the latest knowledge from R&D-activities within DanBred

In combination with the purchase of breeding stock DanBred offers front-end expertise and advice based on experience and focused research and development.

Nucleus Management – access to state of the art breeding solutions for closed commercial herds

DanBred International has a wide experience within the establishment and support of closed herd genetic programmes, thus enabling commercial farmers to carry out in-house production of replacement female parent stock with emphasis on breeding as well as bio-security. When using DanBred's Nucleus Management Programme you are able to maximise your in-house breeding solution by making careful selection of the best breeding stock available according to the estimated breeding values on each potential breeding animal in your herd.

Many professional pig producers

rely on **DanBred Int. worldwide!**



Core facts that define DanBred as worldwide leading in pig breeding

- Large nucleus sizes.
- Consistent breeding pyramid enabling maximum utilisation of hybrid vigour at the commercial level.
- Comprehensive and reliable test regime and data collection.
- The breeding goals include the most important traits from an economic point of view.

- Significant and proven genetic improvement in every generation.
- Genetic improvement is efficiently and rapidly implemented into the commercial level.
- Emphasis on meat quality, thus the deleterious versions of the halothane gene and the RN gene are eliminated from the populations.
- Comprehensive health programme (SPF).

DanBred is committed to research and development and continues to create genetic superiority through R&D-investments to the benefit of professional commercial pig producers worldwide. Each year DanBred spends approx. USD 4 million on breeding activities and genetic research, thereby ensuring continuous genetic improvement for generations ahead.

***DanBred International** has vast experience in continued provision of breeding support and implementation of genetic solutions customised to suit the needs, demands and expectations of professional commercial pig producers. DanBred International is a subsidiary of the Danish Bacon and Meat Council. For more than 30 years we have exported breeding stock all over the world. DanBred International strives to provide the best possible service for our customers, including assistance in selection of breeding pigs and carrying out export arrangements to all parts of the world. For further information and contact addresses please visit our website: www.danbred.com*

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