360 Agrar Systeme

●●●

SYSTEM REMMERT

Pig Farming for the future

SYSTEM REMMERT

sustainable profits for the coming decades

1. by complying to upcoming emission standards
2. by following a sustainable concept for residual waste
3. by respecting future animal welfare principles
4. by generating higher productivity and meat quality

Challenges of the future

More and more of the growing world population pursue a lifestyle with the comfort and the nutritional standards of the richer nations. The demand for meat is therefore growing at a high rate.

This demand must be met with methods that preserve nature and are not depleting and destroying the natural resources necessary to fulfill this growing demand.

New and advanced methods must therefore

<u>replace traditional systems of animal farming!</u>

These new systems have to be optimized to:

- produce healthy, higher quality meat with <u>profitable productivity</u>

- avoid old mistakes leading to intolerabel agricultural waste and emissions

- and thereby saving the soils, the waters and the air of the planet that feeds us.

SYSTEM REMMERT

answers these challenges for Pig Farming!

It is a "Birth to Finish" pig farming system that implements methods that have been <u>tested and proven to work</u> on Mr. Ralf Remmert's PLS pig farming operations near Berlin, Germany.

This system allows meat production with:

1. <u>higher productivity</u>,

2. <u>higher quality meat</u>,

3. <u>waste recycling</u> with <u>no toxic envionmental impacts</u>,

4. up to <u>80% reduced emissions</u> of health threatening and climate altering harmful gases,

5. while at the same time complying with <u>higher animal welfare standards</u>.

PRODUCTIVITY

High productivity in future pig farming is best achieved by a combination of methods that optimize animal health and welfare in a closed and controllable stable environment.

Emulating and triggering natural pig behaviour is key to reduced stress levels!

- This results in less losses, less infections and less negrosis.
- At the same time with less stress comes faster growth and better meat quality.

This is best achived in closed stables by:

1. using <u>structured bays</u> with a sleeping and resting area, feeding area, activity area and a <u>toilet area</u>. Even in a small and closed environment pigs prefer their natural and instinctive regime and routines.

2. keeping pigs in their conditioned habitat from <u>birth to finish</u> - meaning in the bay that was their birthplace, from piglet to porker and keeping them in their original <u>family group</u> with their siblings.

Consequently we have identified:

3 main technical objectives in the development of pig farming

1. adopt structured bays for keeping pigs in family groups "birth to finish" without surpressing natural behaviour!

2. lowering Ammonia emmisions for healthier respiratory systems in pigs and complying with new emission standards!

3. abolish slatted floors and slurry production to protect against hoof injuries and developing a toilet area with efficient waste management and reduced environmental impact!

Structured bay - form and purpose

1. Sleeping and resting area

2. Feeding area

3. Activity area

4. Toilet area

In their natural environment pigs instincts define the same 4 areas:

- They have a nest - their sleeping and resting area.

- They have areas where they know that there is food and water.

- They have areas where they interact as a group - following their play instinct, their curiosity and their instinct to discover new sources for nutrition.

- They have their waste (toilet) area, a save distance away from the nest for hygienic purposes and also to mark their territory.

Structured bay - form and purpose (2)

To deprive pigs of their natural and instinctiv order causes

- stress
- agressivness
- depression

and in the end leads to

- smaller growth rates
- more health issues and
- reduced productivity and profitabilty!

On the other hand implementing a system that respects the natural instincts and behaviour of pigs leads to:

- better growth and development
- better physical constitution
- less stress and abnormal behaviour (negrosis)
- better meat quality
- higher productivity and economical outcome

A "birth to finish" farming system with family groups and in a structured bay environment achieves these results!

Toilet area

PigT and waste management

To lower emmissions, to abolish slatted floors and with it a waste management based on slurry we developed a new kind of system for the management of animal waste.

PigT - the pig toilet
licensed to and manufactured by

PigT
is employed as part of the structured bay concept and constitutes the <u>Toilet area</u>.

PigT
is a patented system that consists of a conveyor belt that separates urin and faeces and a structure that transports both elements separately out of the pigpen.

- By separating urin and faeces the inherent enzymes that produce ammonium, nitrous oxide and other harmful gases when mixed are taken out of play.

- This results in better than 80% improved emmissions and 2 separate waste elements that when simply and cost effectively processed can be used as natural fertilizers on farmland without the harmful environmental effects of slurry!
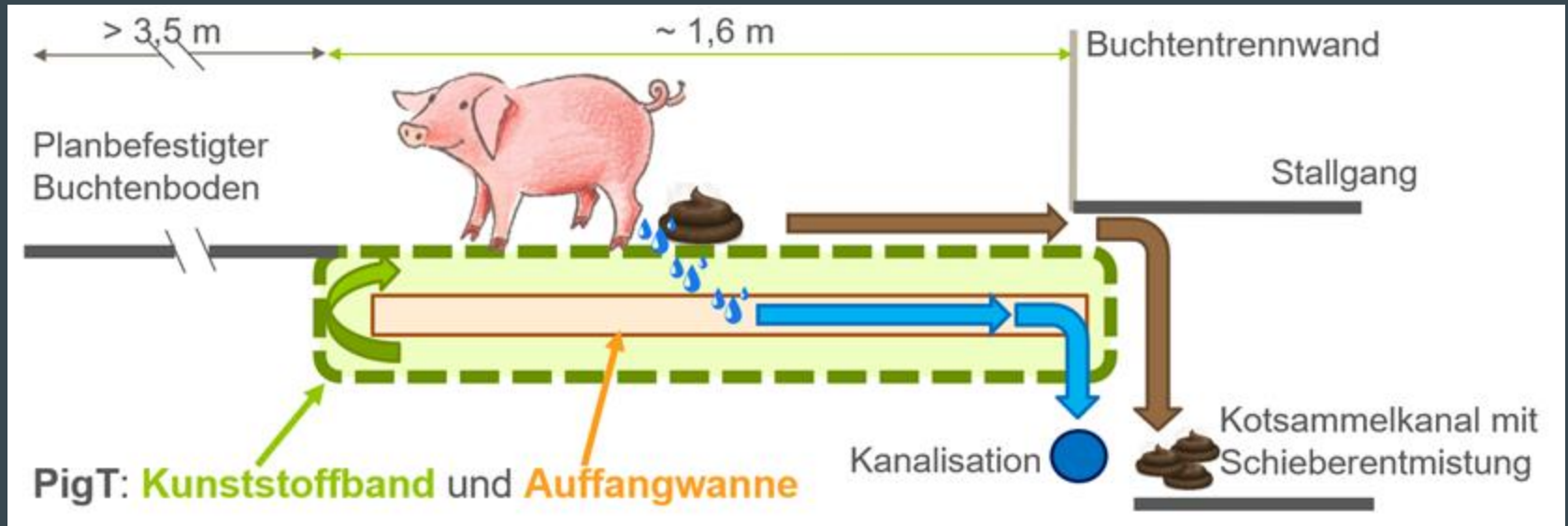
For information:

360 Agrar Systeme GmbH

Contact:
Martin Stock
+49 172 320 35 54
stock@360agrar.com

If you are interested in learning more about our concepts in pig farming, we can arrange a meeting on our premises (PLS) and demonstrate "System Remmert" at first hand.