



**NEW!**

# Big Dutchman®



## **PEF System**

Cell disruption of maize silage  
for a healthy pig feed rich in crude fibre

# PEF system – making maize silage digestible for pigs!

The new **PEF system** developed by Big Dutchman allows farm managers to feed their pigs maize silage! Because of its dietary effects, crude fibre is an important ingredient of the feed pigs receive. Crude fibre levels of 3.5 to 4.5 percent in the feed for finishing pigs

(approximate value) at a dry matter content of 88 percent improve animal health and well-being. This is not a new finding. However, it often proves difficult to provide cost-efficient feed which has the required protein content and energy density but also the optimum crude fibre content.

With the PEF system, Big Dutchman now offers customers the possibility to feed finishing pigs recipes with a silage maize level of up to 15 percent when using a liquid feeding system. Let our experts advise you how to find the best solution for your individual requirements.

## How the PEF system works



**PEF** stands for **Pulsed Electric Fields**. High-voltage pulses are applied to the chopped maize plant, making it digestible for pigs.

The chopped maize is first mixed with water in a pre-mixer **1**. The entire mix is then put through a special chopper **2**. The gruel created in this manner is now available as a component for liquid feeding. As soon as the feeding computer demands this component, it is guided through the PEF system **3**, disrupted and immediately transported to the mixing tank **4**. The recipe is then ready to be fed to the pigs.



Freshly chopped maize silage



Maize silage and water inside the pre-mixer



Maize silage gruel (minced) inside the pre-mixer

## Advantages

- ✓ feed with high crude fibre contents strengthens the gastrointestinal tract → healthy intestinal flora, calmer animals;
- ✓ reduced development of E. coli bacteria;
- ✓ less antibiotics required;
- ✓ maize silage is a very cost-efficient feed with a better land use than grain maize or CCM;
- ✓ the PEF system can be retrofitted (for any liquid feeding system);
- ✓ low maintenance requirements;
- ✓ short amortization period.



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