



Big Dutchman®



TriSort*pro*

Automatic sorting scale for
successful pig finishing

TriSort^{pro} – permanent weight control and labour-saving selection

With Big Dutchman's automatic sorting scale **TriSort^{pro}**, finishing pigs kept in large groups – with an optimum number of 250 to 400 pigs per group – can be sorted based on their individual weight. Among other things, this helps to determine the exact number and weight of ready-to-slaughter pigs, which in turn assists with the planning of the slaughter-

ing date. The pigs delivered to the slaughterhouse precisely match the slaughtering criteria; pigs weighing more or less than the required slaughtering weight are a thing of the past → increased overall yield and reduced feeding costs! Another important field of use is partial finishing up to or starting at 60 kg (132 lb). These pigs' weight is also constantly

monitored. The producer can utilize the house more efficiently. Thanks to the precise weight data, each feeding area can be supplied with an individual feed type (high- or low-energy). In addition, under- or overweight pigs can be marked with two different colours.

How does TriSort^{pro} work?

The double and very stable entrance door is always open when the scale is empty. If a pig enters the scale, the entrance door closes automatically due to the weight change on the scale. This way, only one pig at a time can enter the scale. The scale is equipped with a non-slip floor. After the weighing, which takes only two to three seconds, the exit door opens automatically. The adjacent selection door determines into which feeding area the pig is guided or whether it is to be selected as »ready-to-slaughter«. The entrance, exit and selection doors are opened and closed pneumatically.



Use of TriSort^{pro} with two selection exits

The entrance of the sorting scale consists of an inner and an outer door. The inner door is part of the weighing unit which is fixed to the base frame. Two load cells are attached to the upper part of the

frame, ensuring accurate weight determination. The outer door protects the scale against inaccuracy of the weighing results caused by other pigs and thus guarantees a very

precise weighing. The weighing unit itself is equipped with a non-slip floor which provides perfect stability for the pig inside the scale.



Entrance door



The scale is equipped with a non-slip floor



Exit with selection door

Advantages

- ✓ permanent weight monitoring of all pigs → information about daily weight gains and thus the health of the pigs is available at any time;
- ✓ selection of under- or overweight pigs by means of colour marking;
- ✓ weight-adjusted feeding;
- ✓ ready-to-slaughter pigs can be selected easily and without stress before they are taken to the slaughterhouse;
- ✓ precise information about the number of pigs to be slaughtered and their weight → ideal selling time;
- ✓ less time required for loading of pigs.



The pigs leave the feeding area through a one-way door after feeding

BigFarmNet – state-of-the-art control system for modern pig finishing

The BigFarmNet control newly developed by Big Dutchman allows the constant collection of data, monitoring and control of all connected sorting scales in real time.

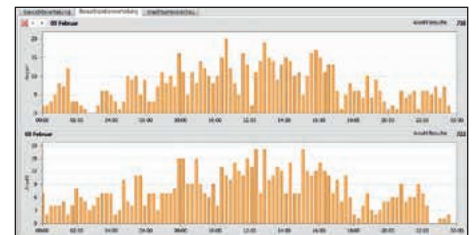
Each TriSortpro is managed by a control unit characterized by a clearly arranged display which presents all important information, e.g. the current weights. Another advantage lies in the fact that the control unit does not have to be installed directly at the sorting scale but can also be installed in the aisle, facilitating access to it (animal-free area).

In addition to the control unit, it is possible to connect a separate PC which can be

located in the farm office or the farm manager's house. Both computers communicate in real-time.

Thanks to the graphic display of all house-related data and results, the producer is always up-to-date with his stock records:

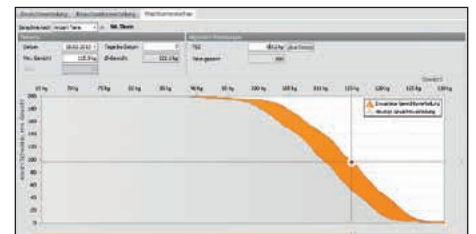
- ✓ display of the weight distribution on the current and previous day;
- ✓ determination of sorting thresholds (in percent);
- ✓ display of the scale's visiting frequency;
- ✓ prediction of the date on which e.g. 100 pigs will reach a specific target weight.



Graphic display of the scale's visiting frequency



Graphic display of the weight distribution



Graphic display of the weight gain prediction



Each sorting scale TriSortpro is managed by a control unit, in this case installed in the service room



Sorting out mode

Technical specifications and planning examples for the use of TriSort^{pro}

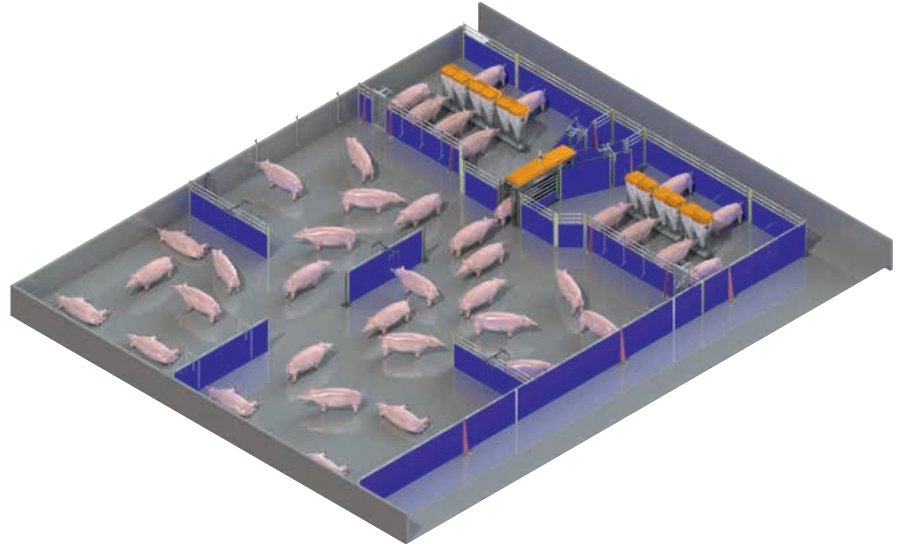
If a TriSort^{pro} sorting scale is installed, the house is divided into feeding, lying and selection areas. Group sizes of 250 to 400

pigs per sorting scale are ideal. One or two one-way doors through which the pigs can leave the feeding area have to

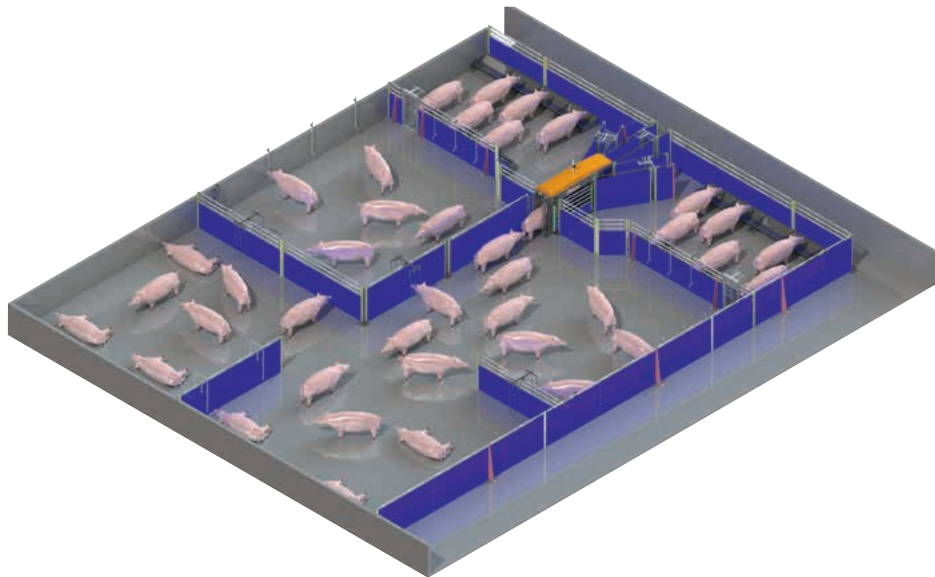
be planned. Liquid as well as dry feeding are possible.

Use of TriSort^{pro} with two selection exits and dry feeding system

For the management of large groups with an automatic sorting scale, pens can be arranged quite freely. The pigs determine which areas are used for resting, activity and defecating. They are provided with a lot of room for resting and activities so that they can withdraw from the group in case of ranking fights.



Use of TriSort^{pro} with three selection exits and liquid feeding system



Further advantages of this housing system are the ideal utilization of the house area (no aisles in the compartment), reduced costs for housing equipment and less effort required for pig weighing, sorting and depopulation as well as cleaning of the house.

The pigs should be monitored more closely. This may be ensured by checking the whole group attentively during the daily inspection round.



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