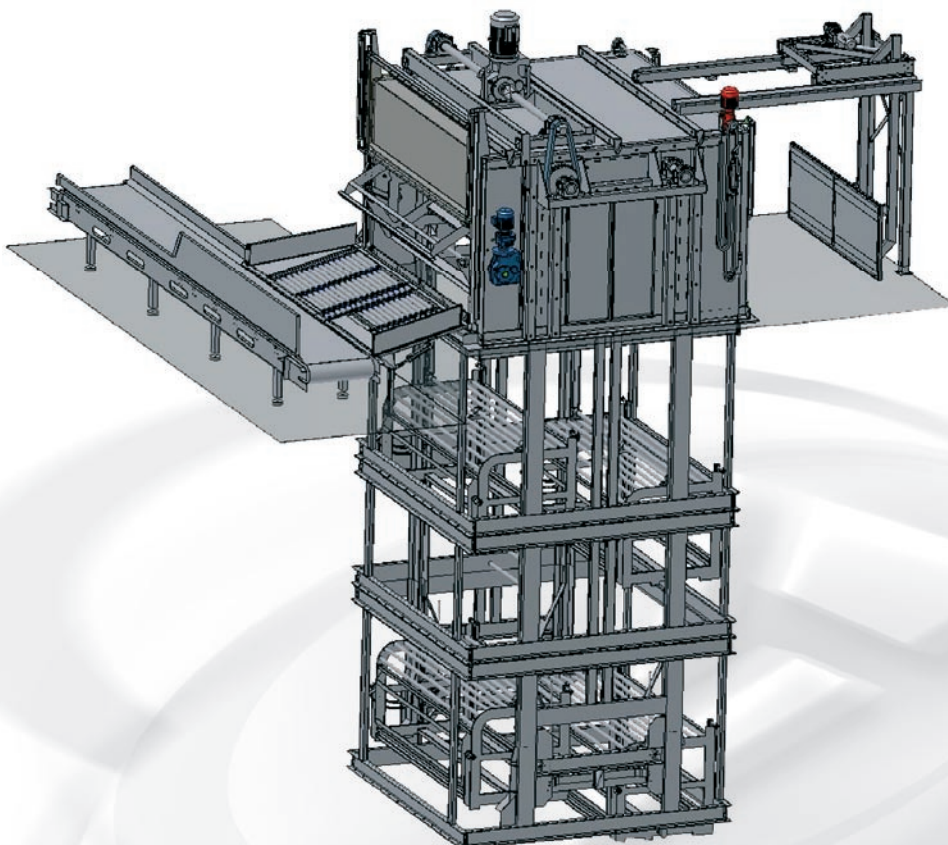


CO₂ stunning system Type SLEEPY



Description

The SFK CO₂ stunning system named SLEEPY features the latest technology. The gondolas move about in an optimum combination of accelerations, speeds and decelerations, to ensure the highest attainable degree of animal welfare and the longest possible life of all movable parts.

The system may consist of 1 to 7 gondolas dependent on required capacity. Furthermore, the system is available with gondolas in two different sizes from 5 to max. 15 pigs.

Application

Animals enter the runway in groups. Before the stunning system, the groups are divided into grouplets matching the capacity of the stunning system. Then the animals walk into the gondola of the stunning plant and a part of the rear wall of the runway ensures that all animals get safely into the gondola before the door is closed. The gondola is lowered into a CO₂ atmosphere where it stops at a depth where the concentration is high enough to make the animals become unconscious. Simultaneously, the next gondola will be positioned at the entrance gate, ready to receive the next group of

pigs. When the first group has been in the high CO₂ concentration for about 150 seconds, the gondola is raised to its ejecting position.

Now the pigs slide onto a roller conveyor which distributes them onto a fast moving conveyor transporting them to a shackling elevator. The time from ejecting of gondola to sticking operator is approx. 60 seconds.

Advantages

Group stunning of pigs, which have been together all of the way from farm to stunner, minimizes stressing of animals.

The number of operators is minimised in using group-wise stunning.

If the size of the stunning plant allows for a total group from a pen to be led together into the stunning plant, no person is needed for dividing pigs.

Quick animal transport into a controlled CO₂ concentration means that they become unconscious quickly, resulting in improved meat quality.

Hygiene

The plant is designed to meet the strictest demands on hygiene. The products conform to the HACCP regulations. All internal machine surfaces are as smooth as possible. Driving mechanisms and sensors are positioned outside the machine.

The machine is equipped with a wash-down system for washing gondolas after work has been finished; this reduces the time needed for cleaning considerably.

Safety

The stunning system meets the strictest demands on health and safety and is e.g. CE-approved. All doors have safety switches and padlocks out of regard for operator safety.

Other preconditions

The products are designed according to the EU and USDA regulations. Furthermore, the products meet the CE requirements.

The machine is equipped with a central lubricating system which includes greasing of bearings and oiling of roller chains, ensuring optimum life of all vital parts. To reduce maintenance, all movements take place by electrically driven units via the control system. Besides, all electric sensors and solenoid valves are positioned outside the machine for easy access.

The operator can read the stunning time and the CO₂ concentration of each group of pigs on a view panel. Further, all events of the machine are logged to facilitate servicing as much as possible.

All movable components are positioned on the outside of the machine, to prevent them from being exposed to the CO₂ atmosphere in the pit.

Technical data

Capacity

Varies from 145 to 1,400 pigs per hour dependent on type of plant.

Dimensions

Length according to type of plant.
Height and width according to application.

Consumption

Power supply:..... 400V/50Hz/3P
Other voltages and frequencies are available on request.

Dependent on type of plant:

Electricity:..... 10 - 35 kW
Air: 0.02 - 0.035 Nm³ per pig
CO₂: 200 - 300 g per pig

Miscellaneous

Noise level: As low as 70 dB(A)
Weight: 11,000 - 22,000 kg

Technical data subject to alteration.

SFK Systems A/S

SFK Systems A/S · Albuen 37 · DK-6000 Kolding
Tel. +45 7634 2700 · Fax +45 7550 5477 · mail@sfk.com · www.sfk.com