

CASE STUDY:

LACKEBY ROTO-SIEVE® DRUM SCREEN
PROCARNE SLAUGHTERHOUSE,
MEXICO



Optimizing the process with Lackeby Roto-Sieve® drum screen

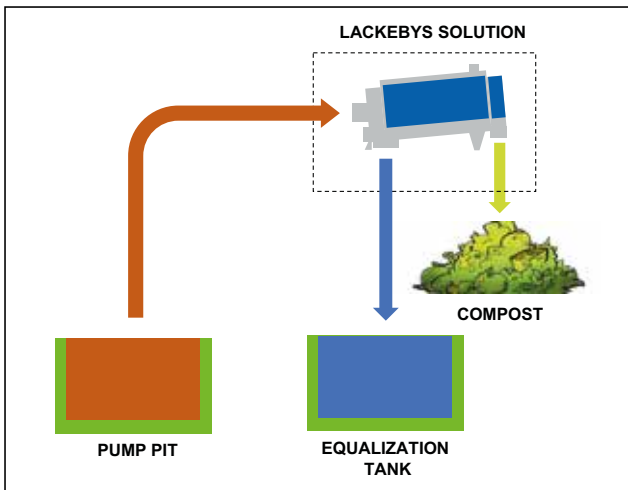
The company used to have settling traps that were cleaned by hand every day because they were closely checked by the sanitation authority since there were a lot of problems in the sewer due to their discharge.

The problem was so big that the company was planning to close the facility and either stop processing meat (selling the bulls alive to other processors) or to move the facility out of the urban area. Neither of the scenarios were preferable by the management.

PROCARNE

PROCARNE is a small beef producer of gourmet products. Their facility is located in an urban area in the city of Torreón, in Northern México. They slaughter around 200 bulls per day and considering that every animal generates 1m³ of wastewater with very high solids load the wastewater is not easy to deal with. They discharged the wastewater to a sewer that went (still goes) straight to the city's wastewater treatment plant and they had permission to do so if all solids that could be separated mechanically were separated.





Lackebys solution:

We took the PROCARNE people to see an installation we have in a poultry plant in a city that is 900 km away (the company's owner was part of the three people that went to visit it). After the visit they were convinced about Lackebys proposal and gave a purchase order for a Roto-Sieve® drum screen model RS 51 (previous type with same capacity as today's RS 24). The unit was supplied and started in 2006.

How the process works is as follows: raw wastewater flows to a pump pit and from there it is lifted about 6 m to the drum screen. The screened wastewater flows to an equalization tank and from there it goes to the sewer. The separated solids are composted.

"Now I understand why the sanitation guys wanted my slaughterhouse to be out of their sewer!"

Owner of PROCARNE.



The result:

When the Lackeby Roto-Sieve® drum screen was started up the company's owner had a difficult time to understand why there was so much solids being separated by our equipment.

Our representative was there, and he was asked: "Why are we getting so much solids?". The reply was: "Sir, this is what the wastewater has, we are doing nothing but just separating all the solids that already are in the wastewater, I mean obviously we are not adding solids to it". He had never seen so much solids being separated with their hand operated system. When he finally caught it, he laughed loudly and said: "Now I understand why the sanitation guys wanted my slaughterhouse to be out of their sewer!".



Some of our well known Lackeby Roto-Sieve® drum screen models.

Lackeby Products AB has more than 50 years of experience in designing and manufacturing high performance products for resource-efficient heat recovery and wastewater recycling. In our production facilities in Sweden we have made thousands of products for the toughest environments worldwide. We are well known for our ability to customize products to each customer's unique requirements.

All of our products are characterized by reliability, long life cycles and easy maintenance making Lackeby Products a trusted partner and supplier of products for plant upgrades or new plant constructions. We guarantee high quality, excellent performance and complete satisfaction.