

CASE STUDY:
LACKEBY ROTO-SIEVE® DRUM SCREEN
GRAMAT WWTP



Bar screen replaced by Lackeby Roto-sieve® Drum screen at Gramat WWTP, France

The municipal WWTP in Gramat has a capacity of 9,500 equivalent inhabitants (eh.hab). The average inlet flow to the WWTP is 60 m³/h, with a peak flow of 110 m³/h during the rainy season.

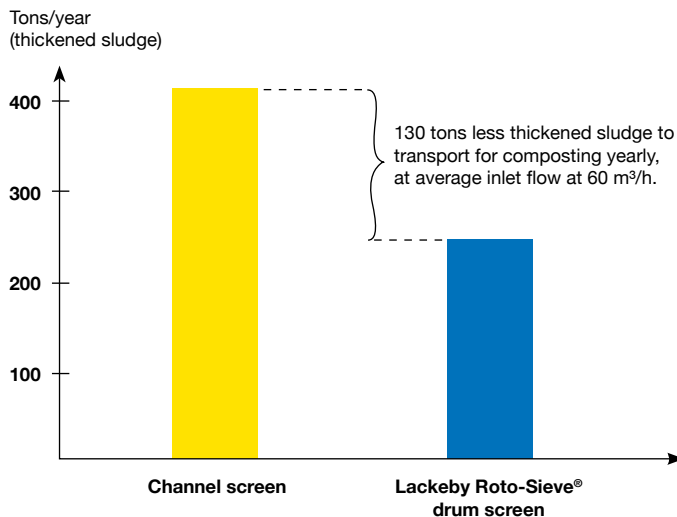
The plant was experiencing frequent maintenance issues due to the poor performance of the existing channel screen, which served as the first step in the pretreatment process. It regularly malfunctioned due to the high grit load from sewage and rainwater. Every two weeks, the recirculation between the settlement tank and aeration tank had to be manually cleared of clogs.

In 2021, a decision was made to replace the 6 mm channel screen with a Lackeby Roto-Sieve® drum screen featuring 2.5 mm perforation. The platform above the grease trap was modified to install the drum screen on top of the channel, allowing it to collect the filtered water.

Solution:

Following the installation of the Lackeby Roto-Sieve®, the volume of screenings produced increased threefold, from approximately 150 liters per week to 450 liters per week. No press has been installed at this time.

Tank cleaning is now performed every six months preventively, rather than due to overflow. Previously, the channel screen had to be disassembled and serviced every two years. After two years of operation with the Lackeby Roto-Sieve®, no parts have yet required replacement.



The volume of thickened sludge produced by the plant, which is transported to another site for composting, has decreased from approximately 405 tons per year to 275 tons per year. The customer is very satisfied with the improved performance and results.

Lackeby Products AB has approximately 50 employees and designs and manufactures equipment for environmental cleaning and recycling. All manufacturing takes place in our workshop in Kalmar. The company is a committed partner with high process and product knowledge who always strives to fulfill our customers' real needs.

The company develops and manufactures equipment that reduces environmental impact, therefore it is a stated goal that the company's own routines and production methods are constantly improved in order to minimize the impact on the environment.