

CASE STORY: Sanovo Eggshell Drum Dryer

The Client

The Dutch egg processor, Egg Products Ospel (EPO) has been operating as a producer of liquid whole egg since 1996. Every week, approx. 500 tons of liquid egg product are produced at the egg breaking facility in Ospel.

The Challenge

EPO was facing difficulties due to the high amount of eggshells generated from the egg breaking activity. Every week, they were left with around 50 tons of shells and were paying as much as 65-70 euros per ton to get rid of them. EPO wanted to find a new solution which would enable them to reduce their costs and avoid problems with the local authorities in the future.

The Solution

With the Sanovo Eggshell Drum Dryer (ESD-D) the shells are efficiently treated and sterilized. The dry matter content of the shells after treatment is approximately 99.5%. With a negative bacterial count for salmonella and an Enterobacterial count of less than 10, the dried eggshells completely satisfy the requirements of the local authorities. Now the egg processor only pays around 15-20 euros per ton to get rid of the shells, which represents about 77.000 Euros of yearly savings.

Performance

The system has the capacity to treat 2000 kg eggshells per hour and corresponds thus well to the production capacity of EPO. Moreover, the system is very energy-efficient with a gas consumption of only 20 m³ per ton of wet shells.

Advantages of the System

- Very cost-competitive system
- Low energy consumption (160 kWh per ton dry shells)
- Efficient drying (dry matter content >99%)
- Good dust control
- Reduced costs for eggshell disposal



Sanovo ESD-D installed
at EPO



Egg Products Ospel (EPO)



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at EPO