

GPM-Eliminator Pump Success Story

GPM hatches plan for egg processing waste pumps

SUMMARY

GPM-Eliminator submersible slurry pump scrambles up egg processing waste to keep things moving.

THE CUSTOMER

Leading US agricultural and egg processing company that delivers eggs and egg products to domestic and international markets.

THE CHALLENGE

Egg processing is a down-and-dirty application that is a challenge for any pump, especially in the waste stream. Egg shells are primarily made up of calcium carbonate which is also commonly found in sea shells, chalk and limestone. Egg yolks contain a significant amount of fatty acids including oleic, palmitic and linoleic acids...combine all that and you have lots of nasty stuff! The egg whites, egg yolks, egg shells and waste water collect in a sump which is then pumped back to an equalization basin wastewater treatment area. For this application, the customer had tried various grinder pumps, vertical chopper pumps and even some submersible pumps that were not holding up or couldn't pump the sump down to desired levels. The result was continuously failing pumps as well as a sump that required to be regularly cleaned out by bringing in vacuum pump trucks. All of which was both costly and time consuming.

HOW GPM HELPED

With 30+ years of manufacturing GPM-Eliminator submersible slurry pumps, GPM has seen a lot of challenging applications and this was no different. The customer wanted to accomplish two things:

- Install a reliable pump that would hold up to the application and increase MTBF (mean time between failure)
- Maintain a cleaner sump by agitating the solids and pumping them out

With the robust design and Made Tough features like the sump agitating spray hole casing, a SBT2S7.5-6T3-10-S GPM-Eliminator pump was sized appropriately based on the system requirements and installed.

THE RESULTS

After commissioning, the pump has been running well with no issues. As shown in the images, the GPM-Eliminator spray hole technology is working well even in this challenging application as the pump works its way to the sump floor. How do you prefer your eggs....pumped?



GPM-Eliminator pump in egg processing waste sump

