

NETZSCH Pumps & Systems

Progressing cavity pumps provides smooth conveyance of sweetend condensed milk

Waldkraiburg, 01.03.2016

For a major U.S. producer of dairy products, NETZSCH has provided NEMO® progressing cavity pumps for the difficult job of transferring sweetened condensed milk out of flash coolers – and as a result, solved a 25-year long pumping problem for the customer. The company, located in Wisconsin, is specialized in liquid concentrated dairy blends. It is one of the largest manufacturer of frozen dairy mixes in the mid-west and is the largest producer of sweetened condensed milk in the nation.

Sweetened condensed milk is a highly condensed mixture of milk and sugar.

When it is canned it can last for years without refrigeration if unopened. In the production of sweetened condensed milk, there is a difficult application near the end of the manufacturing process where the mixture of milk and sugar needs to be pumped out of two flash coolers under vacuum. The vice president of the company recalled the long and difficult history of trying to find suitable pumps for this application.

“Up until the point that we introduced the NETZSCH progressing cavity pumps, we’ve probably spent \$500,000 dealing with this pump application – which included losing entire batches of sweetened condensed milk.”

Flexible shaft pump is successful in this particular application

NETZSCH engineers recommend using the NEMO® progressing cavity pump with a flexible shaft. Because the NETZSCH patented flexible rod design is free from crevices and dead spaces, it is often used in the production of foodstuff, pharmaceutical, cosmetic and chemical/ biochemical applications. With no components that move against each other, the flexible rod eliminates the need for lubrication and protection against mechanical damage or corrosion. This is especially relevant in process industries, where continuous and batch production demands pumping equipment with high levels of reliability.

A 25-Year pumping problem solved with a NEMO® hygiene pump

The customer received two NETZSCH NEMO® pumps and put them in service in early June 2014. To date, the two progressing cavity pumps have been running 24 hours a day seven days a week with no maintenance or performance issues. After several months of service, one pump was taken apart to inspect for stator or other wear – but none was found.

According the NETZSCH representative on this account, “With the tremendous reduction in pump downtime, the customer is saving a great deal of time, personnel resources and money. With the success of the NETZSCH NEMO® progressing cavity pump in the sweetened milk application, the customer is currently looking at using NETZSCH pumps in several other locations in their plant for existing and future operations.”

[1,225 words]

For more than 60 years, NETZSCH Pumps & Systems has served markets worldwide with its NEMO® progressing cavity pumps, TORNADO® rotary lobe pumps, NOTOS multi screw pumps, grinding machines, barrel emptying units, dosing technology and accessories, providing customized, sophisticated solutions for applications in every type of industry. With a workforce of more than 2,000, Pumps & Systems is the largest business unit in the NETZSCH Group alongside Analysing & Testing and Grinding & Dispersing with an annual turnover of more than 240 Mio Euro (Business year 2014).

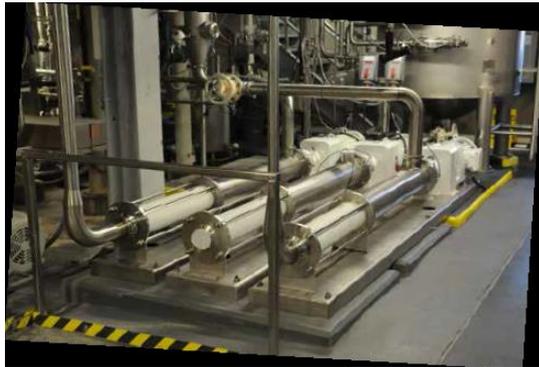
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The NEMO[®] progressing cavity pump for the sweetened condensed milk application.

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