SEEPEX.
An Ingersoll Rand Business

PRECISION DOSING WITH THE SEEPEX MD PUMP

APPLICATION DETAILS

- Dosing of di-electric grease

KEY SPECIFICATIONS

- Process modification
- Accurate and consistent amounts being dosed

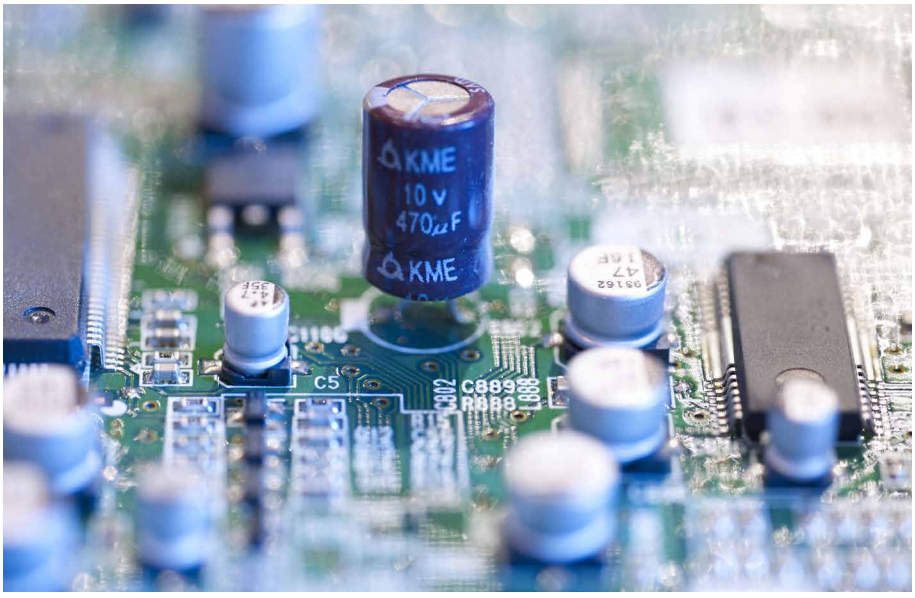
SEEPEX provides a wide range of progressive cavity pumps suitable for a spectrum of applications. The D range of pumps is best known for metering precise, consistent quantities of media with low pulsation. They can also be paired with control systems to operate the pump at various speeds depending on programmed parameters. With this pairing, precision dosing can be achieved, resulting in media cost savings and efficiencies. The following is an example of how a SEEPEX MD pump greatly improved one manufacturing facility's process.

BACKGROUND

A manufacturing facility in the greater New England area produces capacitors of various sizes on the same line. Due to the variable size of the capacitor being built, different amounts of di-electric grease are required during the manufacturing process.

PROBLEM

The facility was using an injection method for adding grease to the capacitors. 125 lbs of pressurized air would force the grease through a hose until a guillotine shut-off mechanism at the end would be activated to stop the flow. This method would result in inaccurate and inconsistent amounts of grease being utilized, as well as the hose periodically blowing out due to the large amount of pressure. The hose would blow out three times in a shift and would require 20 minutes of



Di-electric grease is a viscous non conductive substance protecting electrical connections on capacitors.

LESS DOWNTIMES, MORE CONTROL

COST SAVINGS

REDUCTION IN MAINTENANCE AND DOWNTIME

INCREASED SAFETY

INCREASED SAVINGS AND EFFICIENCY

SEEPEX PRODUCTS
Metering Pump MD Range

maintenance time for each repair. One hour of production was being lost every day due to this issue.

SOLUTION

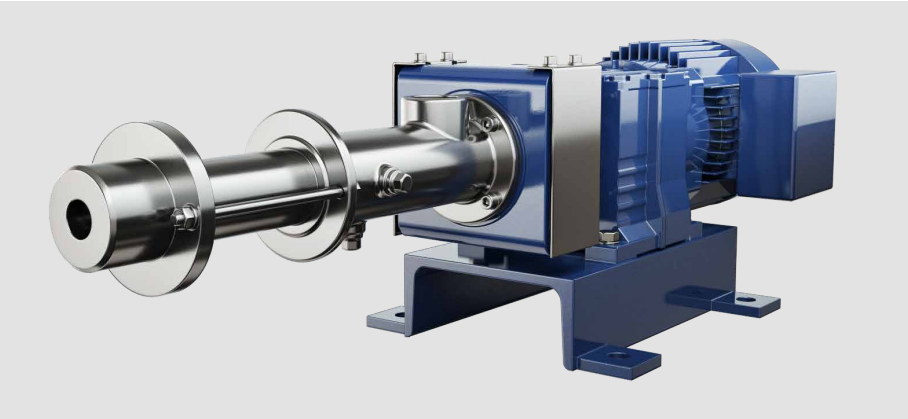
The facility was looking to improve this process and connected with John Gezzer, President of Diversified Pump. John recommended a SEEPEX pump due to their precision, low pressure requirement, and ability to handle viscous and abrasive media.

RESULTS

Since the installation of the SEEPEX MD pump, the manufacturing facility has achieved numerous benefits. The benefit immediately achieved was the reduction in maintenance and downtime. No longer are they halting production three times a day to repair a blown hose. This has also resulted in an increase in safety since every time the hose would blew off the system, grease uncontrollably sprayed everywhere.

Savings are also achieved by a reduction in the amount of di-electric grease required. They are now able to program the control panel to operate the pump according to the size of the capacitor being manufactured and correlating amount of grease needed. For small capacitors requiring a minimal amount of grease, the pump can be programmed to rotate 1/10 of a full rotation.
When larger capacitors are in the production line, the pump is programmed for 3 rotations, allowing the correct amount of grease to be utilized. This programmable accuracy and precision has resulted in tremendous efficiencies.

The SEEPEX MD pump has been installed at this manufacturing facility since 2005. The customer is continually impressed with the accuracy and low maintenance. The only maintenance that has been required is changing out the stator periodically due to the di-electric grease containing highly abrasive silicon carbide powder.



SEEPEX MD-Pump: Precision dosing with low pulsation.