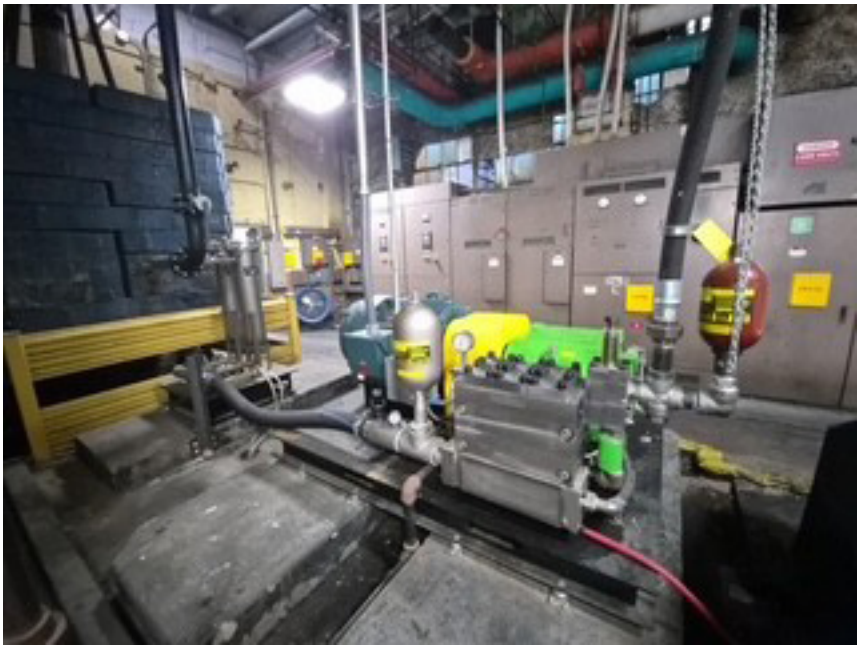
GIANT
Performance Under Pressure

KAMAT

Water Hydraulics

Application:
Water hydraulics work by using pressurized water confined in a closed system to transmit and multiply force. This application used an accumulator to store and discharge high-pressure on demand. Often these systems are run continuously to supply water to the accumulator and are essential for sending water to the press to continue making their product.

Issue:
The current pump system being used was very old and outdated. They needed a solution that would supply constant water in an efficient way.



Solution:
The solution to this was using a Kamat K25065M21-3G. This would supply 75 GPM (283.9 L/M) at 1800 PSI (125 bar). A Variable Frequency Drive would be needed to allow the pump to speed up and slow down as needed. The flow range of the sytsem is 30-75 GPM (113-283.9 L/M). The duty cycle is 24/7. When the system calls for water, the accumulator will expand and send water to the press machines. Demand can be way up or way down, so it was essential to read the water height of the accumulator and speed up or slow down the pump as necessary. The water is pulled from a lagoon which goes through a strainer system. The water is then filtered with a dual filter system that feeds directly into the pump. A pulsation dampener was used to reduce vibrations throughout the system.

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