CASE STUDY

KĀDANT

RotoFlex™ Resource Recovery Strainer

Challenge

The production of a Southern U.S. molded pulp manufacturer was limited by their wastewater discharge permit. The municipality had capacity for more water, but no capacity for additional solids. The manufacturer needed a solution to remove fibers, pulp, and other suspended solids from the wastewater system to increase capacity.

Solution

Kadant Solutions recommended and installed a RotoFlex resource recovery strainer designed to continuously remove fibers and pulp debris from wastewater. Filtered water would be discharged directly to the municipality, and recovered solids would be further processed for solid waste disposal.

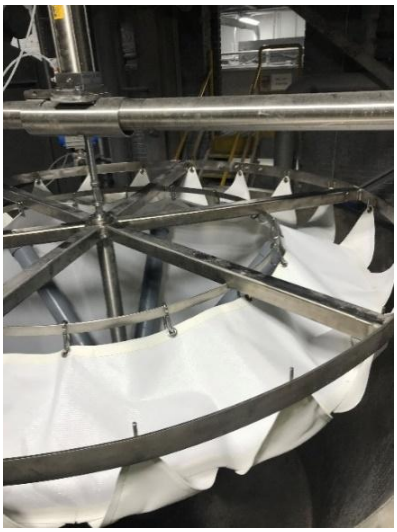
Results

The RotoFlex resource recovery strainer removed the production bottleneck associated with wastewater discharge. As currently configured, the system can produce 350 gpm of filtered water for discharge. At this high rate, the wastewater filtration system outpaces the production of wastewater and therefore does not operate continually. As production increases occur, they will be able to increase their discharge to over one million gallons per day without adding additional equipment.

In addition, the RotoFlex resource recovery strainer's simple operation, minimal maintenance, and quick screen changes have led the facility to consider it for other applications.

Highlights

- Excellent water and fiber recovery
- High volume capacity
- No electrical motors or continuous shower water require
- Proven ROI



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