



Case Study

Vaughan Chopper Pump Solves Clogging in Turkey Processing Facility

Technology Utilized:

Vaughan® Chopper Pump

- Designed for solids-heavy and challenging fluids
- Eliminates clogging with powerful chopping action

How it Worked:

- The volute, impeller, and chopping components are fully submerged in the fluid, allowing the pump to operate without priming or suction lines.
- When activated, the pump chops the feathers into small pieces that can easily pass through the existing 2.5" discharge pipe to a holding tank.

JBCS-P19-073025

THE CHALLENGE

At a turkey processing plant, the facility's blood pit was being emptied using an air-operated double diaphragm (AOD) pump. While the pump could handle some solids, it frequently clogged with feathers throughout the shift, causing maintenance headaches and operational delays. To make matters worse, the pump struggled to prime in the thick, viscous blood, especially with a suction lift involved. The repeated clogs and priming issues led to costly downtime and inefficient performance.

THE SOLUTION

John Brooks' application expert identified the need for a pump that could be mounted directly in the pit to eliminate suction lift issues, while reliably handling long, fibrous solids like feathers. The recommended solution: a Vaughan® Vertical Chopper Pump. Installed at the center of the pit in a submerged vertical configuration, this pump could chop and pass solids with ease—no priming required.

THE RESULTS

- **Reduced Clogging:** Chopper components effectively cut feathers into passable sizes.
- **Improved Uptime:** Continuous operation without clog-related interruptions.
- **Lower Maintenance Costs:** Durable construction and fewer service interventions.

For more information on pump solutions for your unique mining operation, **contact John Brooks**