



ROTODIFF® Hydraulic Backdrive Saves Ethanol Plant \$100,000+

BACKGROUND

110 MGPY ethanol plant had been in operation for more than ten years. Over that period, the competitiveness among plants changed. Plants were bought out by “oil giants” and others formed buying co-operatives. This plant looked for a way to reduce operating costs. A large percentage of the natural gas was used to dry the “wet cake” into either modified DDGS or finished DDGS. The “wet cake” originates from a series of decanter centrifuges, many of which are designed using gear-driven back drives that are difficult to adjust for solids content variations. The limited control of a gear-driven centrifuge led to challenges in producing the desired levels of dryness for the final product going to the dryer.

CENTRISYS/CNP CHALLENGE

The ethanol plant operation and maintenance team approached Centrisys/CNP, known for their expertise in decanter technology, to produce dryer solids, to improve process control and decrease the natural gas consumption for the dryers.



SOLUTION

Centrisys/CNP introduced the ROTODIFF hydraulic backdrive as a more precise alternative to the traditional gear-driven decanter. Retrofitting one decanter to start produced promising results: a 1% increase in cake dryness, improved process control, a decrease in maintenance costs as compared to traditional methods and an overall reduction in natural gas usage at the plant. Based on the energy savings alone, a ROI of 9-12 months was estimated. Encouraged by these positive outcomes, the plant proceeded to retrofit all the remaining decanters with ROTODIFF hydraulic backdrive technology.





Service that Never Stops

Nationwide and global on-site field-service capabilities, 24 hours a day, 7 days a week, including:



- Repair services - includes centrifuge rebuild
- Preventative maintenance
- Process evaluations/optimization
- Installation assistance
- Machine inspection
- Vibration analysis and other diagnostic services
- Operator and maintenance training
- Maintenance agreements
- Flight repair and replacement
- High speed dynamic balancing
- Control Panel Automation and upgrades
- ISO 9001:2015

More Value



Phone Consultations

With our years of experience, we can diagnose many problems over the phone for our customers, saving time and money



Rentals

Handling seasonal processing requirements or for temporary maintenance requests, we offer short and long-term rental or leasing options



Remote Monitoring

A proprietary remote solution integrated into the control panel, providing 24/7, real-time text and email alerts for equipment status changes

Ready to save valuable time and aggravation with repairs done in days, not weeks? Contact Centrisys.

Service

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Questions

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