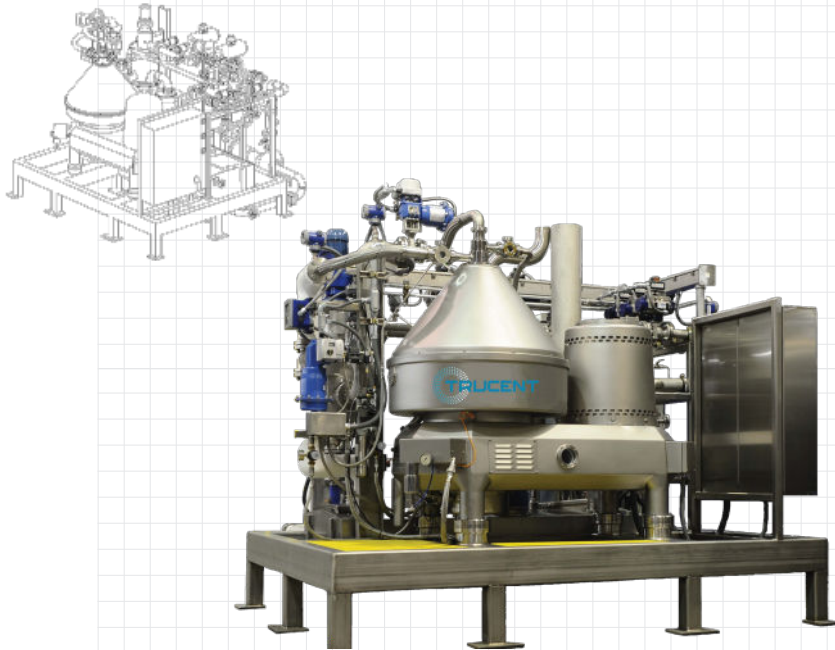


COSS-SL for DCO Extraction

Maximize Your Distillers Corn Oil Potential



DESIGN AND OPERATING FEATURES

Advanced Process Controls

Integrated Oil Clarification &
Transfer Skid

TruShield Self-Cleaning Syrup
Conditioner

Complete Syrup Feed &
Return System

Optimized Disk Stack for Ethanol Syrup
Feeds

Highly Efficient Counter-Current CIP

Optional TruView Remote Monitoring

Overview

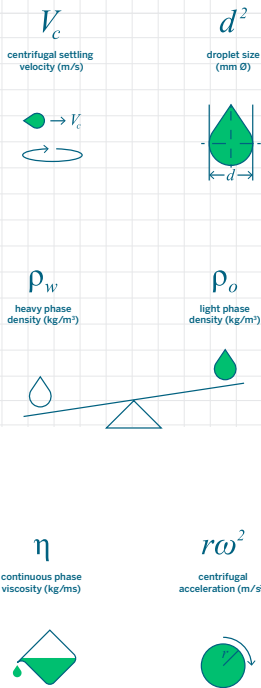
Technology that leverages the power of Stokes' Law.

The COSS-SL is a centrifugal separation designed to achieve high-efficiency removal of corn oil from syrup. The COSS-SL is designed to produce high centrifugal acceleration (G-force) for the recovery of free corn oil without any negative side effects to the ethanol or DDG production process.

The High-Speed Difference

With over 70 installations, the COSS separation technology has proven its extraction efficiency and reliability. Building upon this and our understanding of separation science, we have redesigned the COSS system to respond to changes in ethanol plant technology. The COSS-SL utilizes a skid mounted disk stack centrifuge at its core and performs the industry's most efficient mechanical extraction of DCO from stillage. The syrup enters the centrifuge bowl and is distributed within a vertical disk stack, which increases the surface area of separation and, therefore, efficiency. The disk thickness, spacing, angle, location of the rising channels, and number of disks in the COSS-SL disk stack were all designed specifically for DCO extraction.

$$V = \frac{d^2 (\rho_w - \rho_o) r \omega^2}{18\eta}$$



The COSS-SL Difference

COSS-SL IS OPTIMIZED FOR DCO EXTRACTION AND PROVIDES:

- Easy installation with single point process, utility, and communication hook-ups
- Proven components for maximum system uptime and reliability
- Compact, modular design to minimize floor space used
- Complete, integrated process system for de-oiling your thin stillage or syrup stream
- Seamless integration with all plant designs
- Industry-leading uptime
- Industry-leading production rates
- Highest oil quality
- Industry-leading returns

TRUCENT – INDUSTRY-LEADING SERVICE PROVIDER:

The backbone of COSS-SL system's best-in-class performance is the Technology Service Program (TSP) that maximizes uptime, reliability, and production through operations and maintenance support

- Advanced Analytical Support
- Process Analytics
- Product Distribution
- Preventative Maintenance
- Shutdown Support
- Full Inventory of Spare Parts
- Guaranteed to be on site within 24 hours of notification