

# RECOVER resources. uncover REVENUE.

With this **simple objective** in mind,  
**Centrisys** partners with meat and poultry processors  
to **maximize profits** and **reduce environmental impact**.



# A Consultative Approach

# Because Decanter Centrifuges Are Not All Alike

Customer-driven decanter centrifuge innovation has been at the core of our company since the beginning. This gives us the upper-hand on understanding why different applications in the animal proteins and rendering industries are best served with different combinations of centrifuge design features. It's our laser-focused centrifuge expertise, along with our broad range of available design combinations, that sets us apart.



## Centrifuge Design Variables — Improve Performance

**2-phase (solid/liquid) or 3-phase (solid/2 liquids of different densities)**

- 2-phase - Blood and rendering applications
- 3-phase - FOG recovery

**L:D Ratio** - length to diameter ratio of the centrifuge bowl

- 3:1 - Retrofit option for older centrifuges
- 4:1 - FOG recovery and blood applications; some rendering applications

**Beach Angle** of the bowl's conical

- 8-10 degree better for course matter (bone, sand, gritty materials)
- 15 degree better for biological and DAF sludges
- Hybrid degree for unique process requirements

## We Don't Stand Still — It's a Continuous Process

Our decanter centrifuge development approach is unique. **We go further** with customized design options to meet or exceed customer's objectives. As standard decanter centrifuge designs evolve in each application, we pay close attention to each clients' process requirements to develop the right solution, should that be a standard, semi-standard or fully customized decanter centrifuge, skid or trailer system, component or parts.

### Support Throughout the Life of Your Equipment, It's How We Started.

We take your calls when you need us most. That's been our way of doing business since 1987 - repairing, maintaining and optimizing ALL brands of centrifuges. Long after installation, you can count on us to help you maximize revenue and improve the performance of your process.

#### Lab Analysis

Sludge samples are tested and analyzed. Data is reviewed with recommendations.

#### Service/Repair/Parts

Our centrifuge service and engineering departments provide the expertise to efficiently repair all makes and models of centrifuges. Services range from complete centrifuge rebuilds, general service, preventative maintenance, inspections, installation assistance and training.

#### Process Optimization

Full scale decanter centrifuge pilot testing to on-site field analysis to identify, adjust and enhance equipment for better results.

*"We have always been focused on a culture of service; it's what's made us successful in the industry."*

**G. Kueppers**  
VP of Production

# The Power of ROTODIFF®

Over the last 30 years, Centrisys and Viscotherm AG have partnered to develop the most advanced decanter centrifuge back-drive on the market today. This advanced hydraulic system utilizes the ability of the ROTODIFF® to produce higher torques over its range of differential speeds for better process control and optimal dry solids.

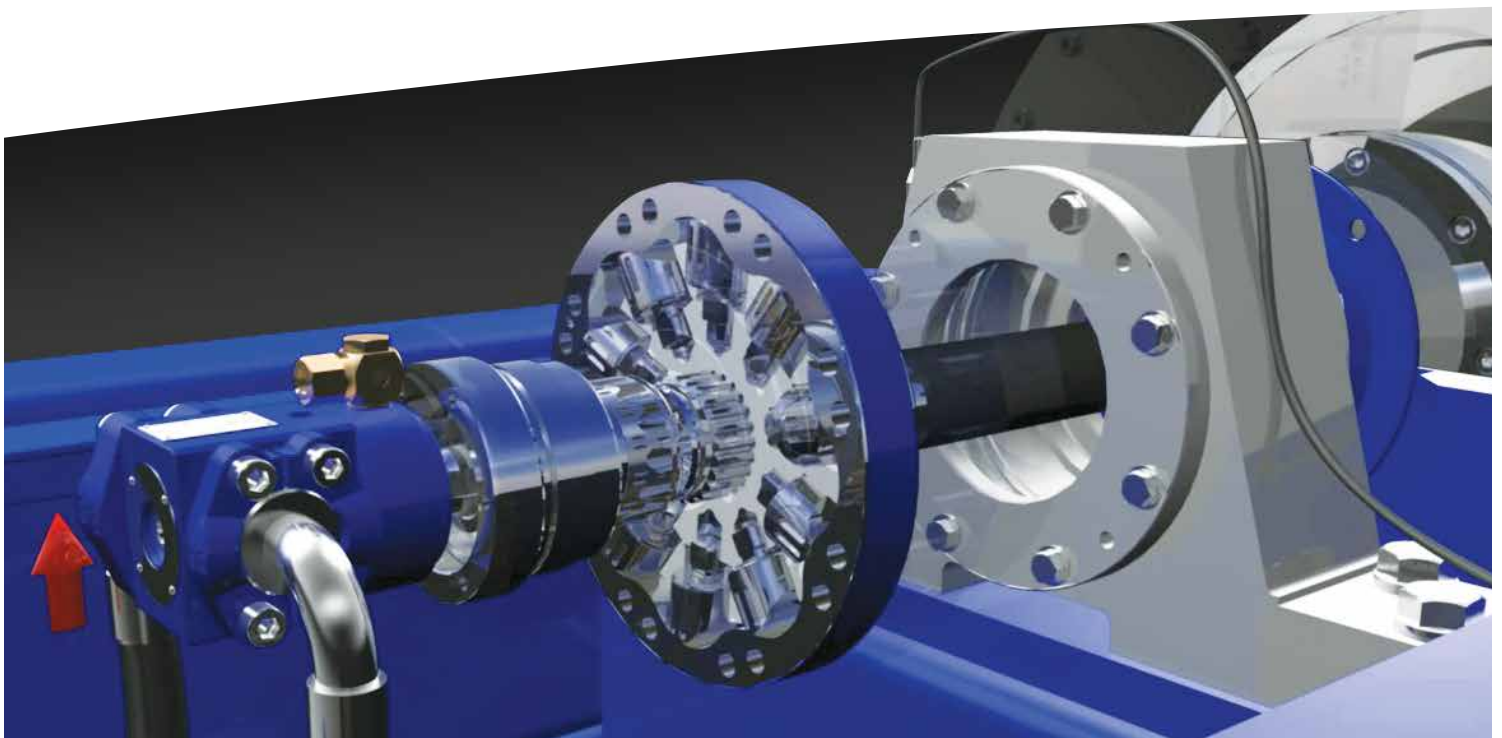
Allows for design flexibility in **FOG Recovery** and **Blood** applications, resulting in:

- Higher throughput
- Drier solids
- Better separation efficiency
- Better quality oil
- Better process control

In **Rendering** applications:

- Helps prevent machine plugging
- Better process control

<b>1</b>	<b>Lowest energy consumption</b>	The scroll drive operates independently from the main drive motor; uses only the energy required to convey the solids.	Increases ROI, lowers operating costs.
<b>2</b>	<b>Simple process control with accurate direct torque reading</b>	Enables precise measurement of the scroll torque and differential speed, immediate response to process and feed changes, not a calculation.	Helps to prevent plugging and lowers maintenance costs, a more energy-efficient process. Time and money are not wasted by guessing about scroll speed.
<b>3</b>	<b>Highest Torque to Weight Ratio. 100% torque at all speeds, including standstill</b>	Allows for a proper balance between handling solids and flow capacity; higher solids throughput at any RPM.	Produces better quality oil. Increases solids dryness, clarification quality, and capacity. The same or better results are achieved using fewer or smaller centrifuges.
<b>4</b>	<b>No high-speed gearbox - uses only slow-moving parts</b>	Creates less friction and significantly less wear on the components and wear parts; higher available torque.	Long term reliability increases uptime, lowers maintenance, and repair costs. Increases operator safety.
<b>5</b>	<b>Lowest overhung weight</b>	Less weight means less horsepower needed to operate the centrifuge.	Reduces maintenance and operating costs as well as machine vibration. Improves bearing life. A more efficient operation, using less energy.



# Uncovering New Revenue Streams

Centrisys partners with leading companies to develop the right solution to advance environmental processes.

## A Comprehensive Application Range

- DAF skimming's
- Rendering
- Biofuels
- Technical fats
- Edible fats and oils
- Mechanically de-boned meat
- Poultry by-products
- Blood plasma
- Blood meal
- Gelatin
- Beef and pork by-products
- Wastewater processing and treatment



	CS10-4	CS14-4	CS18-4	CS21-4	CS21-4HC	CS26-4EV	CS26-4
Phase	2/3	2/3	2/3	2/3	2/3	2/3	2/3
Weight lbs (kgs)	2,000 (910)	3,800 (1,725)	6,500 (2,950)	8,500 (3,860)	10,000 (4,550)	16,500 (7,490)	18,500 (8,400)
Total Installed Power HP (kw)	20 (15)	40 (30)	50 (38)	75 (56)	90 (68)	140 (105)	165 (123)
L x W x H in (m)	89 x 44 x 27 (2.3 x 1.1 x 0.7)	122 x 34 x 31 (3.1 x 0.9 x 0.8)	151 x 44 x 41 (3.8 x 1.1 x 1.0)	175 x 44 x 47 (4.5 x 1.1 x 1.2)	190 x 45 x 53 (4.8 x 1.4 x 1.4)	210 x 56 x 62 (5.3 x 1.4 x 1.6)	225 x 56 x 62 (5.7 x 1.4 x 1.6)

“We’re experts in decanter centrifuge technology, we don’t expect our customers to have that knowledge base, so it’s our job to make sure what we know, gives our customers what they need.”

**M. Kopper**  
CEO Centrisys

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Discover more at [Centrisys-CNP.com](http://Centrisys-CNP.com)



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