

Wastewater Treatment Innovation



What Are the Keys to a Technology Breakthrough?

Asking smart questions. Getting to the heart of the challenge. And designing a better way to solve it. That's how Centrisys continues to drive the wastewater industry forward.

Ideas ahead 

An Insight That Maximized Efficiency

Centrisys began replacing gear units on decanter centrifuges with advanced hydraulic scroll drive technology from Viscotherm AG in 1988. Today, the Rotodiff® technology is saving energy costs for over 2,000 Centrisys customers worldwide. It's one of many

Ideas ahead.

A quarter century ago,

the world's largest centrifuge manufacturers turned to Centrisys to service their equipment.

But our team didn't just fix centrifuges. We studied them – what works, what doesn't and why. And we set out to remake the technology for the better. Decades later, this focus on wastewater technology innovation continues to produce new breakthroughs for customers around the world.

Dewatering Advancements

PROVEN PERFORMANCE & RELIABILITY

The very first Centrisys dewatering centrifuge, installed in Honolulu in 1989, is still operating today.

The reason? The CS21-4, like every dewatering system we've delivered since, is built to outperform.

Optimal 15° beach angle – Proven through rigorous testing to deliver the right clarification volume for municipal wastewater treatment

Efficient, high-torque drive – Hydraulic scroll drive for higher torque at lower energy consumption than the traditional gearbox

Superior design and construction – Centrifugally cast duplex stainless steel bowl components for higher strength and corrosion resistance

Just the Facts: Why New York City Chose Centrisys for Dewatering

FACT: The Centrisys CS26-4 dewatering system delivers the highest torque.

FACT: It offers the highest G-volume of installed centrifuges.

FACT: It has the most installations worldwide for machines of this size and capability.

FACT: It's the only one using a more efficient hydraulic scroll drive instead of a gearbox.

FACT: It offers the lowest power consumption.



1987

Founded in Centrifuge Service – mastering the technology



1988

1st Rotodiff® Changeover – more efficient than gearboxes



1989

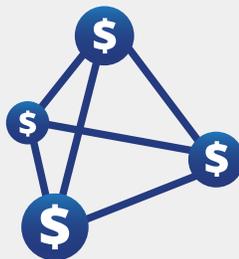
1st Centrisys still in operation

THK Hybrid Thickening System

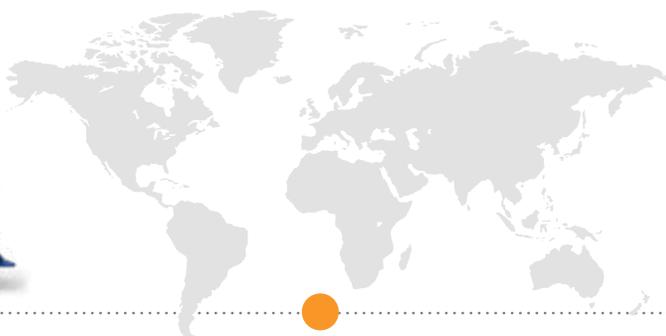
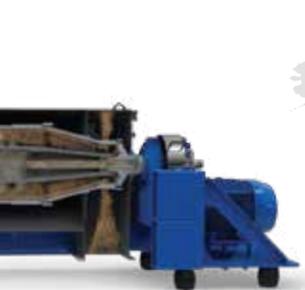
ELIMINATING POLYMER WHILE INCREASING CAPACITY

A tough challenge is an opportunity for a big breakthrough. That's the mindset from which Centrisys attacked an issue others took for granted: the problem of polymer costs in thickening.

Experts from diverse disciplines teamed up to completely rethink the process. The result: a new hybrid system that eliminates polymer needs while increasing capacity.



NO polymer required – Facilities can expect to save \$140,000 p/dry ton of solids in the WAS thickening process – delivering full ROI in 2.5 years based on those savings



1999

Dewatering Centrifuge –
on today

2006

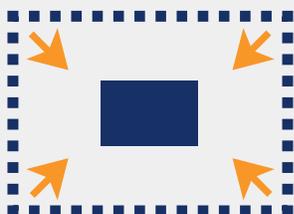
Taking Our Innovation Global –
first installations in Germany, China
and South America

2011

1st THK Hybrid Thickener –
eliminating polymer costs



Best control of cake solids –
Patented Hydraulic Assist technology enables the most efficient control of TWAS concentration



Smaller footprint –
Replaces gravity belts or rotary drums with an airtight alternative that uses a fraction of the space



THK *Delivers* High ROI

After installing a THK18-3 Thickening System, the water utility in Kenosha, WI, quickly saw multiple benefits:

- Savings of \$80,000 to \$100,000 in pump and equipment upgrades that would've been needed for its aging DAF system
- Less odor thanks to the enclosed tank, which also eliminated the need for two large exhaust fans
- Best control of cake solids – 5%, up from the 4% achieved by the DAF – while using less energy
- Lower labor requirements – freeing up staff to perform other important tasks

This Story Continues with You

How can we help you maximize uptime, efficiency and performance? What problem can we solve for you?

At Centrisys, these questions are always on our minds. It's not just about serving you better. It's about driving ongoing innovations that advance your success. So partner with us, and stay tuned for the next breakthrough.

2013

2,000th Hydraulic Drive Installation –
proven efficiency and performance

Ideas ahead



Designed and Built in the U.S.A.

Proud to uphold American ingenuity - the creativity,
courage and determination to rise to the challenge

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