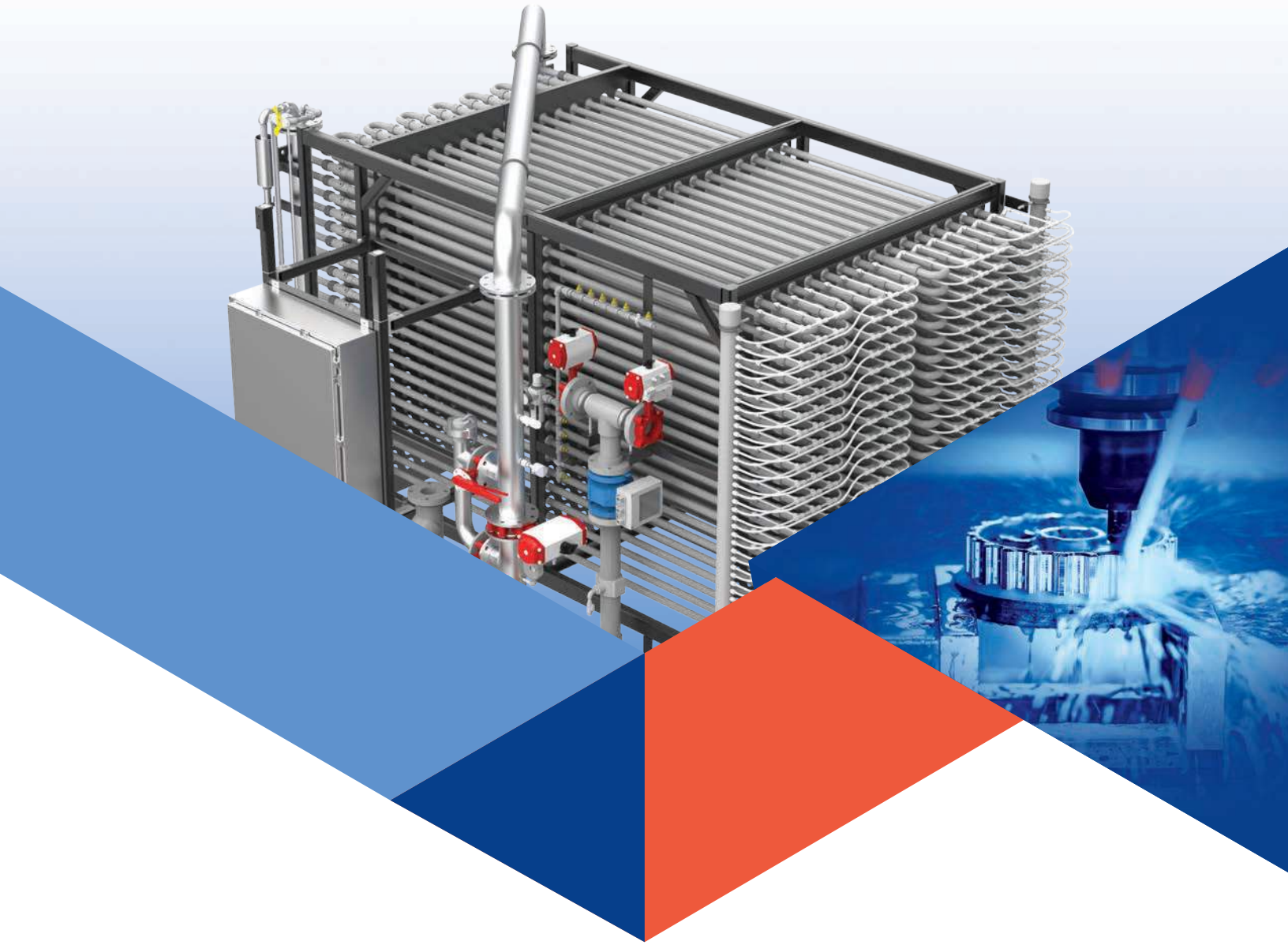
KOVALUS
Separation Solutions™



Oily Wastewater Solutions

Reliable Solutions for the Toughest Wastewaters

How can KSS help you?

As a complete solution provider, we have the experience and knowledge to design and build the system that will fit your needs to effectively treat your wastewater. We will help you achieve your wastewater treatment objectives, whether you are looking to meet stringent discharge regulatory targets or produce high-quality water for reuse at your facility.

The Challenge – Oily Wastewater

For years, customers have been reacting to their wastewater problems by trying to meet EPA requirements with minimum capital expenses. Costs associated with quick fixes drain financial resources, while still leaving clients struggling with ever tightening discharge requirements.

Modern membrane technology is the answer to solving oily wastewater treatment issues. Businesses across a broad range of industries who already benefit from our technology to improve wastewater management include:

General Metalworking

Water-soluble coolants, cutting and grinding oils, machining lubricants, dye penetrant, discharge from parts washer tanks, rinse waters, floor washings.

Primary Metal Processing

Rolling and drawing oils used as lubricants and coolants in ferrous and non-ferrous operations, coatings and heavy metal bearing wastewater treatment, aluminum processing.

Waste Collection

Emulsified and water-soluble oily wastes collected by waste haulers.

Food and Cosmetics Manufacturing

Edible fats and oils from animal and vegetable processing and CIP.

Other Wastewaters

Produced/frac water, car, truck, tanker and train wash operations, grey water, laundry wastewater, biomass clarification.

The Solution – Advanced Membrane Technology from KSS

Our unique membrane products demonstrate long life and long-term successful performance in the most difficult industrial wastewater applications. Our experienced engineers will provide a solution tailored to your facility.

Our technology will help you meet discharge limits and reduce hauling volumes. Our membranes will remove:

- **Emulsified Oils**
- **Fats and Grease**
- **COD and BOD**
- **Heavy Metals**
- **Suspended Solids**

Complete Solution for Your Filtration Challenges

Our filtration solutions are energy efficient and environmentally friendly, making them the technology of choice for your water sustainability program and reduction of your water footprint.

We use our robust tubular open channel FEG PLUS® ultrafiltration membranes and standard KONSOLIDATOR™ systems to remove emulsified oil and suspended solids from industrial wastewater. We round out this proven treatment with our reputable fouling resistant FLUID SYSTEMS® RO and NF membranes to provide excellent effluent quality and high recovery.

We will use our experience to provide you with the scope of work that satisfies your needs, including:

- **Ancillary Equipment**
- **Tankage**
- **Startup Service**
- **Operator Training**

The FEG PLUS Brand

Our FEG PLUS tubular membrane clarifies wastewater, eliminating the need for sludge producing flocculants. Based on ultrafiltration membrane technology, the FEG PLUS membrane provides a physical barrier that precipitated metals cannot penetrate, resulting in excellent permeate quality.

KONSOLIDATOR System Family

We designed the KONSOLIDATOR systems to provide a long-term robust solution treating wastewater. The benefits are clear:

- Heavy-duty industrial applications
- Mechanically cleaned, resists plugging
- Easily tolerates most system upsets
- High recovery, up to 99.5%
- Scalable configuration accommodates streams from 1,500 to 500,000 GPD (6 to 1,900 m^3/d).

High Recovery RO Packaged Systems

Wastewater streams treated by KONSOLIDATOR ultrafiltration systems are often clean enough for factory reuse, offering a safe, economical and environmentally friendly alternative to discharge. However, many times RO polishing is required to achieve water quality targets.

We will provide you with innovative and complete solutions using our pre-engineered or custom designed High Recovery RO systems with their clear benefits:

- Proven performance in the most demanding applications
- Efficient and cost-effective operation
- Compact design
- High recovery, up to 90%
- Support by an experienced team of application, process and field engineers

Kovalus Separation Solutions™

We are excited to introduce Kovalus Separation Solutions, formerly Koch Separation Solutions. This evolution marks a pivotal moment for us as we continue our journey of pioneering advancements in separations technology. We're revolutionizing the field of separations through cutting-edge technologies like membrane filtration, ion exchange, evaporation, and drying. With over six decades of expertise, we provide comprehensive solutions for demanding applications in dairy, food and beverage, life sciences, and general industry sectors. Our extensive membrane portfolio features a range of pore sizes, enabling us to handle diverse process fluids, water, and wastewaters effectively. Collaborating with clients worldwide, we specialize in recovering high-value products, minimizing waste, reducing environmental footprint, enhancing productivity, and optimizing costs.

Kovalus Customer Support

We've got you covered with Kovalus support

With Kovalus-qualified personnel, we offer tailored expertise throughout the life cycle of your membrane filtration system, ensuring optimal performance, protecting your investment, and maximizing process efficiency. Our KSS ASSIST ™ program provides proactive site visits, remote monitoring, and operator training to keep your system running at peak levels, backed by global service and support. We're dedicated to delivering faster, more efficient solutions, forming lasting partnerships, and exceeding your expectations.

Additionally, we offer

The SepTrac™ Smart System which seamlessly integrates with any KSS system to collect live data, send notifications and alerts, store documentation, and manage influent logs, all while offering easy access to our customer service teams.

REACH US

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KOVALUS
Separation Solutions™

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