

## Sustainability and Schroeder: How They Go Hand in Hand

ISO 9001:2015 Certified Schroeder Industries has been in operation since 1946. Starting as a mining equipment manufacturer and distributor, Schroeder quickly saw a need and assumed the position as a leader in the design and production of advanced, sustainable, liquid filtration, fluid conditioning, and fluid system diagnostic solutions in 1954.

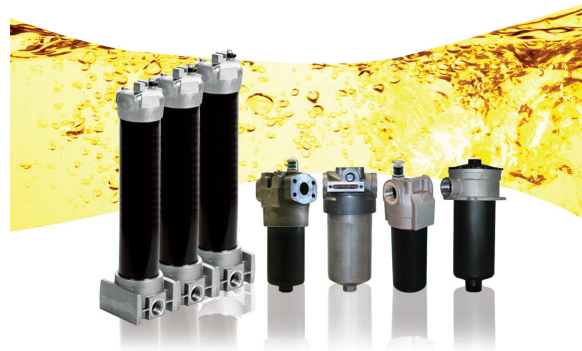
Schroeder directly, and through its global distribution network, serves the world's largest industrial (OEM and MRO) and mobile (OEM and Fleet) customers. We accomplish this with optimized OEM fluid conditioning tools, and we deliver the solution and services that MRO customers require to meet their operational performance goals. We deliver sustainable product solutions and services. We are relevant when the cleanliness of hydraulic fluid, lubrication fluid, gas, fuel, emulsion, or process water is vital to our customers' success.

Schroeder continues to look forward and is committed to delivering our technologies in a platform (SI Energy Sustainability) that supports our customers' efforts to reduce their carbon footprint. We do this by designing energy efficient solutions and services that prolong the useful life of process water, mineral oil, or fossil fuel. We do this by reducing the volume of fluid used in a system or by reducing, and in some cases eliminating, the frequency of liquid disposal. In engine applications, we deliver the critical filtration solutions that are required to reach the most stringent emission requirements. Finally, we deliver the filtration or fluid conditioning tools to most of the OEM's that provide systems for clean energy delivery to the consumer.

Schroeder Industries is headquartered in Leetsdale, PA, with a second production facility in Cumberland, MD.



### Products:



#### Hydraulic & Lube Filters

A complete range of filter assembly types up to 6,500 psi (448 bar).

**SI** These products are designed with system efficiency, weight reduction from oil and steel savings, and filtration efficiency for oil cleanliness and longevity in mind.

##### Product offerings include:

- ◆ High Pressure Filters (3,000-6,500 psi)
- ◆ Medium Pressure Filters (500-1,500 psi)
- ◆ Low Pressure Filters (up to 300 psi)
- ◆ Manifold Mounted Filter Kits
- ◆ Tank Mounted (In-Tank / Tank Top)
- ◆ Servo Protection (Sandwich Filters)
- ◆ Spin-On Filters
- ◆ **And more!**

#### Filter Elements

Filter elements to remove impurities and contaminants, meet required cleanliness levels.

**SI** **E-Drive Media:** With the current development of electric drives, we are proud to introduce our low DP filter media.

##### Product offerings include:

- ◆ Schroeder Original Elements
- ◆ Schroeder BestFit® Replacement Elements
- ◆ Spin-On Elements
- ◆ Cartridge Elements
- ◆ Excellement® Z-Media® (Synthetic)
- ◆ Anti-Stat Pleat® (Synthetic)
- ◆ Melt-Blown and Spun Bonded
- ◆ **And more!**

#### Filter Systems & Diagnostics (IoT)

Mechanical and electronic fluid conditioning and diagnostic monitoring tools.

**SI** These units are built for low energy consumption. They include offline fluid conditioning units that are compact and use a lower amp resulting in less energy usage.

##### Product offerings include:

- ◆ Hand-Held Hydraulic Filter Units
- ◆ Filter Cart Systems
- ◆ Stationary Kidney Loop Systems
- ◆ Filter Skid Systems
- ◆ Oil Testing Systems
- ◆ Particle Counters
- ◆ Fluid Sampling Systems
- ◆ **And more!**

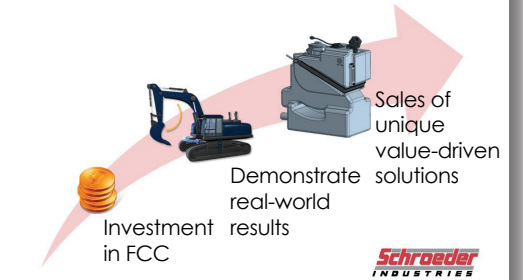
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#### Fluid Care Center (FCC)

Located in Leetsdale, PA, our FCC is a collaborative, customer-focused work environment for complete fluid evaluation and product development.

- ◆ Equipped with the tools and resources required to partner with our customers early in their machine design process. A place where we validate and demonstrate added value.
- ◆ On-Site Fluid Conditioning Products and Services Training
- ◆ Application Specific Testing
- ◆ Machine + System Optimization
- ◆ Technical Cleanliness Certification

FCC: Commitment to Value Driven Sale



#### Fuel Filtration

Designed for fuel filtration applications, including bulk storage, mobile equipment, etc.



##### Tier 4 and 5:

We have state-of-the-art filtration for injectors that reduce fuel emission and waste streams.

##### Product offerings include:

- ◆ Bulk Diesel Filtration Products
- ◆ Filter Cart Systems
- ◆ On-Board Diesel Filtration
- ◆ ColdClear® (Cold Soak)
- ◆ Fuel Diagnostic Tools
- ◆ Replacement Elements
- ◆ **And more!**

#### Process Filters

For removing contamination and solid particles from gas-solid or liquid-solid process streams.



Housings and systems with low differential pressures. Even a differential pressure saving of 0.49 bar can produce energy savings of up to \$50k annually.

##### Product offerings include:

- ◆ Backflushing Filter/Strainers
- ◆ Bag Housings and Elements
- ◆ Cartridge Housings and Elements
- ◆ Rolling Media Filtration
- ◆ Mining Products
- ◆ Inline Filters
- ◆ Conoscreen®
- ◆ **And more!**

#### Optimized Hydraulic Tanks & Accessories

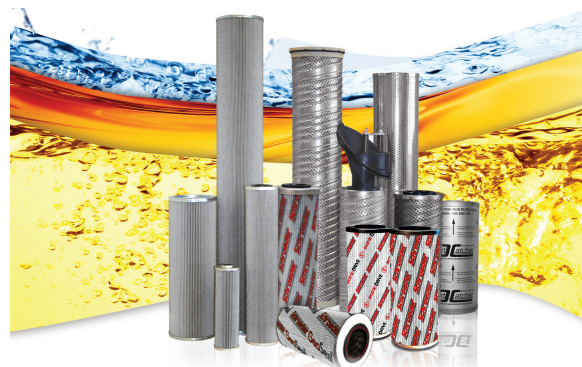


The TNK Complete Tank Solution is 40% lighter than steel tanks.

By reducing the hydraulic tank size, this reduces the amount of oil being used in a system. We estimate by reducing oil usage by 1,250,000 liters, it can save 5700t of CO<sub>2</sub>.

##### Product offerings include:

- ◆ Reservoir Accessories
- ◆ Check Point Test Systems
- ◆ Gauges
- ◆ Complete Tank Packages
- ◆ Electrical & Visual Indicators



Schroeder TNK + System Optimization vs. Standard Steel Tank  
Overall CO<sub>2</sub> Savings when using cross linked polyethylene vs. steel tanks:



\*Calculation based on 100 truck fleet operating at 10,000 gallons of fuel a year.

To learn more about Schroeder's environmental impact, visit [schroederindustries.com/sustainability](https://schroederindustries.com/sustainability)





We are pleased to announce the launch of Schroeder Service. What started as a basic contamination audit now includes a more in-depth contamination auditing service, a rental equipment program, a sensor calibration service, and our all-new Filtration Management as a Service (FMaaS).

Markets Served



ADVANCED FLUID CONDITIONING SOLUTIONS® L-2740 | 2021

Filtration Management as a Service (FMaaS)

With our Filtration Management as a Service (FMaaS), Schroeder owns, delivers, and maintains the filtration capital equipment needed to achieve your oil cleanliness goals:

- We work with your team to establish the fluid conditioning goals.
- We constantly filter and/or dehydrate the hydraulic & lubricating oils in your plant to meet these goals.
- We (physically and remotely) manage the fluid cleanliness process to ensure uptime and to all but eliminate the need for contracting with a mobile recycling company.

<https://schroederindustries.com/oil-filtration-management-as-a-service/>

Schroeder Rental Equipment

By offering the all-new Schroeder Industries Rental Equipment Program, we are now able to extend our proven fluid conditioning technology to a wider reach and at an affordable cost.

Available for rental are some of our larger fluid conditioning systems, such as:

- Offline Fluid Conditioning
- High Volume Fluid Polishing
- Mass Transfer & Vacuum Dehydration
- Varnish Removal

<https://schroederindustries.com/schroeder-rental-equipment-program/>

Fluid Contamination Audit

Schroeder Service includes a complete, on-site fluid contamination auditing service.

With our fluid contamination auditing service, our customers can expect:

- The utilization of state-of-the-art technology, in real-time, to identify particulate contamination in bulk storage tanks and hydraulic systems.
- Discovery of an on-site fluid audit goal.

<https://schroederindustries.com/schroeder-service/>



FILTRATION & DIAGNOSTICS

Product Line Overview



Hydraulic & Lube Filters

Filter Elements

Filter Systems & Diagnostics (IoT)

Fuel Filtration

Process Filters

Hydraulic Tank Accessories



Visit us online @ [www.schroederindustries.com](http://www.schroederindustries.com) for our complete product offering!



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