



## **FLUID TECHNOLOGY**

### **AUTOMOTIVE & OEM SUPPLIERS**

SCHRADER plans and implements customer-specific material supply systems.

Sustainable - low maintenance - reliable

# Capable, independent and flexible

**SCHRADER – your independent specialist for task-specific supply and application systems for paints, sealants and adhesives.** Our high-performance fluid conveyor systems are available as all-in-one solutions from a single source: with bespoke planning, development and design as well as installation and commissioning on-site.

Thanks to many years of experience in conveying viscous media, backed up by continuous further development and the exchange of ideas with our customers, we are always able to apply the current state of the art. Smart SCHRADER solution concepts are characterised by high levels of efficiency that result in greater profitability and productivity with efficient workflows.



## ACHIEVING TARGETS – THROUGH STRATEGY

SCHRADER Group was founded in 1969 near the town of Münster, north-west Germany. Today, the company covers the fields of process engineering, fluid technology and plant engineering. Interdisciplinary cooperation among more than 200 employees facilitates an invaluable knowledge transfer between us and our customers worldwide, which boosts our capabilities from one project to the next.



### Energy efficient

The use of intelligent, high-performance technologies ensures high efficiency and continuous energy savings



### Certified

Comprehensive certification for nearly all requirements worldwide



### Customised

Bespoke installation solutions result in an increase in efficiency and productivity



### Quality

Engineering & production in Germany for incomparable product quality



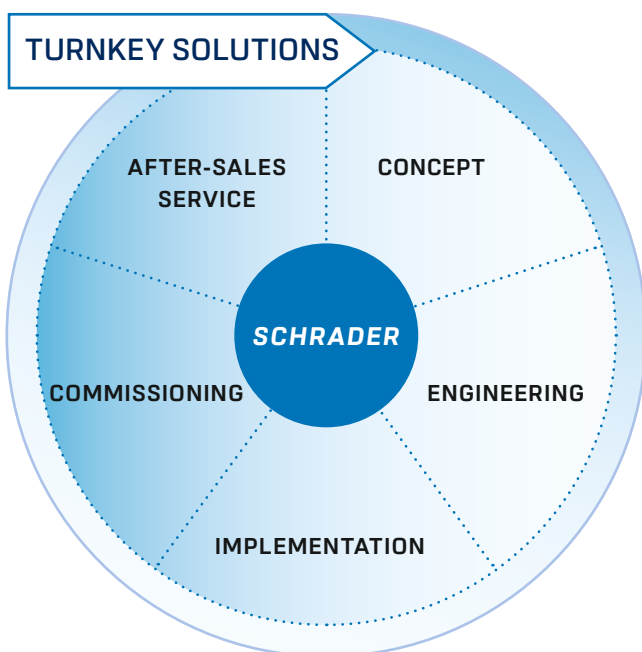
### Turnkey solutions

Concept, engineering, implementation, commissioning & customer service from a single source



### Environmentally friendly & sustainable

We promote aware, responsible use of resources and the environment



## **SCHRADER – customer focus, on paper and in practice**

We develop bespoke solutions with machines and installations designed specifically for your application. Our engineers and employees with experience in the field of fluid technology will design and implement your individually engineered equipment, fine-tuned to the requirements of your manufacturing situation – a turn-key installation for which we are responsible up to the point where you use it for production.

## **SCHRADER – environmental awareness and responsibility**

A conscientious approach to the use of resources is a fundamental principle at SCHRADER in view of the need to treat our environment responsibly.

The careful use of raw materials, consistent energy saving and strict adherence to sustainability concepts are key parameters of our engineering concepts.





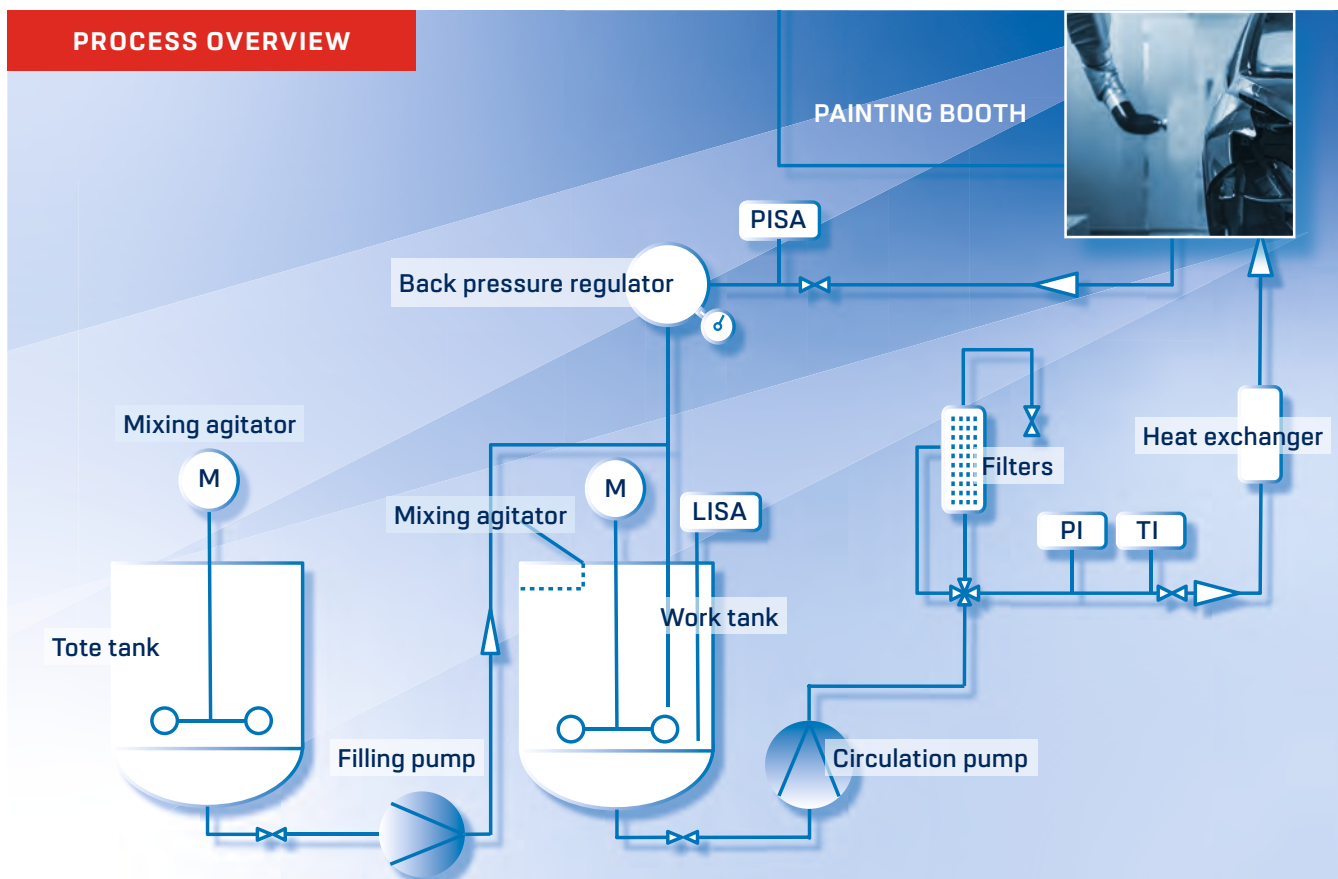
# PAINT SUPPLY SYSTEMS

## SCHRADER – dependability for your production process

The increasing demands of the automotive industry in terms of lightweight construction, energy efficiency and economy are a key factor driving us to adapt our complex plant technology continuously to changing conditions and new materials. Our paint supply installations are in use in many different fields of paint application. We can provide you with bespoke complete solutions from tote tanks to application. In doing so, we take your specific wishes into account as well as the requirements of the material suppliers. By applying state-of-the-art technologies, we can guarantee energy-efficient, low-maintenance system solutions.

### TYPICAL AREAS OF APPLICATION FOR OUR SYSTEMS:

- ▶ Water- and solvent-based primers and topcoats
- ▶ Two-component systems
- ▶ Rinsing medium / de-ionised water / solvents
- ▶ Sludge thinner & disposal systems
- ▶ Equipment and spot repair
- ▶ Secondary media (e.g. compressed air, nitrogen, cooling water)





Our supply systems for small and medium-sized containers are the preferred choice, especially where a large range of colour shades is in use. They feature short changeover times between shades, optimum purge capability and a high degree of dependability.





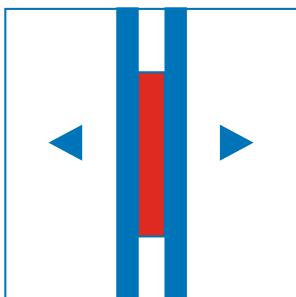
# SEALING – GLUING – DAMPING

## SCHRADER – your specialist for application-specific solutions

Our systems for conveying low to high viscosity fluids are a guarantee for maximum productivity, performance and economy. Thanks to the large number of projects we have implemented and the experience we have gained from them, we can provide you with an end-to-end solution tailored to your individual needs, from tote tank to point of application.

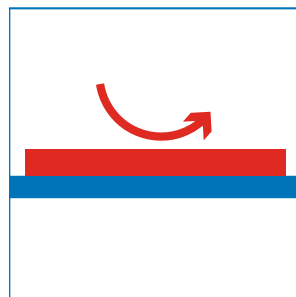
### TYPICAL AREAS OF APPLICATION OUR INSTALLATIONS:

- ▶ Underbody coating
- ▶ Hem flange & seam sealing
- ▶ Sprayable damping mats (SDM, LASD)
- ▶ Lubrication systems [grease]
- ▶ Adhesives
- ▶ Cavity waxing & exterior protection



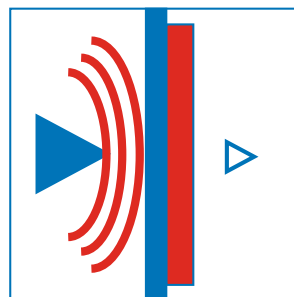
BONDING

- ▶ Structural adhesives
- ▶ Hem flange sealing
- ▶ Windscreen bonding systems
- ▶ Adhesives for trim parts



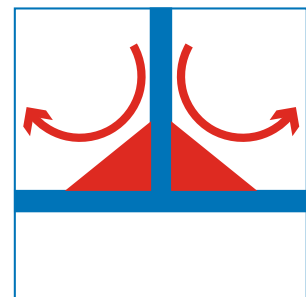
PROTECTION

- ▶ Underbody coating
- ▶ Cavity preservation
- ▶ Paint waxing
- ▶ Engine waxing



DAMPING

- ▶ Sprayable damping material
- ▶ Noise reduction



SEALING

- ▶ Seam sealing
- ▶ Hem flange sealing



Whether you prefer delivery by the truck-load, in tote tanks, barrels or small containers: SCHRADER material supply systems offer you tailor-made solutions.

Continuous technological advancement is a matter of course for our systems developers. A key area of focus is always energy efficiency and sustainability. Simply contact our expert sales staff for assistance.





# Pipeline construction | Installation

## SCHRADER – safety, quality and dependability from a single source

SCHRADER has its own highly experienced expert teams for installing complex machines and for pipe construction worldwide. Your personal supervisor will be responsible for ensuring outstanding customer service on-site. The highly qualified team will guarantee you a first-class system installation.

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### SAFETY

For many years, we have been certified under the SGU Management System SCC\*\*. This enables us to provide responsible service – based on the latest methods of safety training for our teams. The benefits for you and all our customers is greater safety for all involved in the project.

### QUALITY AND RELIABILITY

Continuous training and further education of our own assembly teams guarantees your installations are fitted with the greatest precision. Capable supervisors offer the highest level of support quality with direct coordination on-site. The benefits for you and all our customers is maximum flexibility, adherence to delivery dates and reliability.





# After-sales service

## SCHRADER – first-class service

Stay on the safe side: regular preventive installation maintenance and optimisation by our SCHRADER service technicians promises maximum reliability, durability and economy. Whether it is through advice and support on-site or repairs carried out in our service workshop – our specially trained staff combined with high-quality original spare parts will guarantee optimum service life.



## GRACO service partner



For many years, we have enjoyed a successful partnership with GRACO, the leading international manufacturer of fluid-handling systems and components. GRACO products set standards worldwide and are used for conveying, measuring, controlling, dosing and applying various fluids and viscous materials.

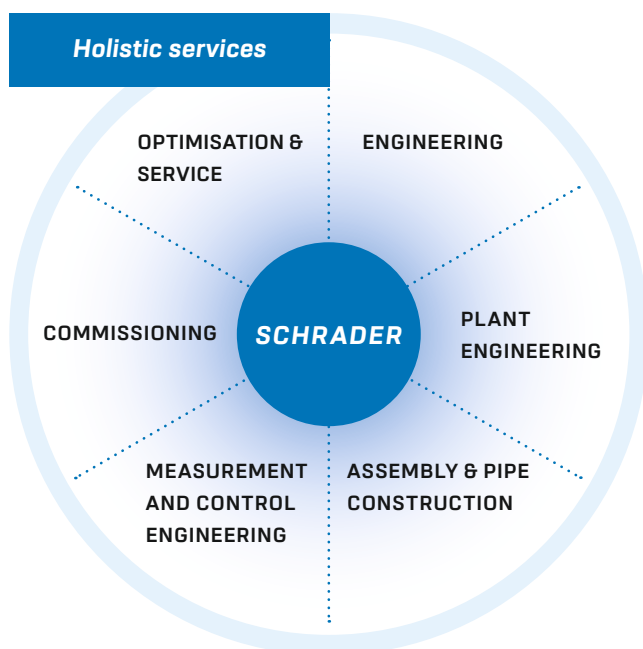
As an authorised GRACO dealer and design centre, our portfolio includes the entire range of products and spare parts for a variety of industry-specific applications, products and equipment.

Please contact us for more details.

# Flexibility, quality and technical capability

## Exploiting synergies – with our holistic range of services

Customer and quality orientated, flexible, communicative and capable – the SCHRADER team is ready for you, and keen to assist you in finding and implementing the best conceivable solution for your specific tasks. Consistently close cooperation between the SCHRADER divisions and over 200 employees guarantees you will benefit from a dependable, outcome-orientated partnership and a broad range of services from the planning and coordination stage through to hand-over of the turn-key installation.



## SCHRADER PLANT ENGINEERING

Qualified welding business for high-grade containers, equipment and plant engineering.

### Focus on:

- ▶ Pressure vessels in compliance with applicable directives
- ▶ Mixing and agitator vessels
- ▶ Tube bundle heat exchangers
- ▶ Flat tube heat exchangers
- ▶ Special-purpose equipment

Crane capacity Up to 23 m

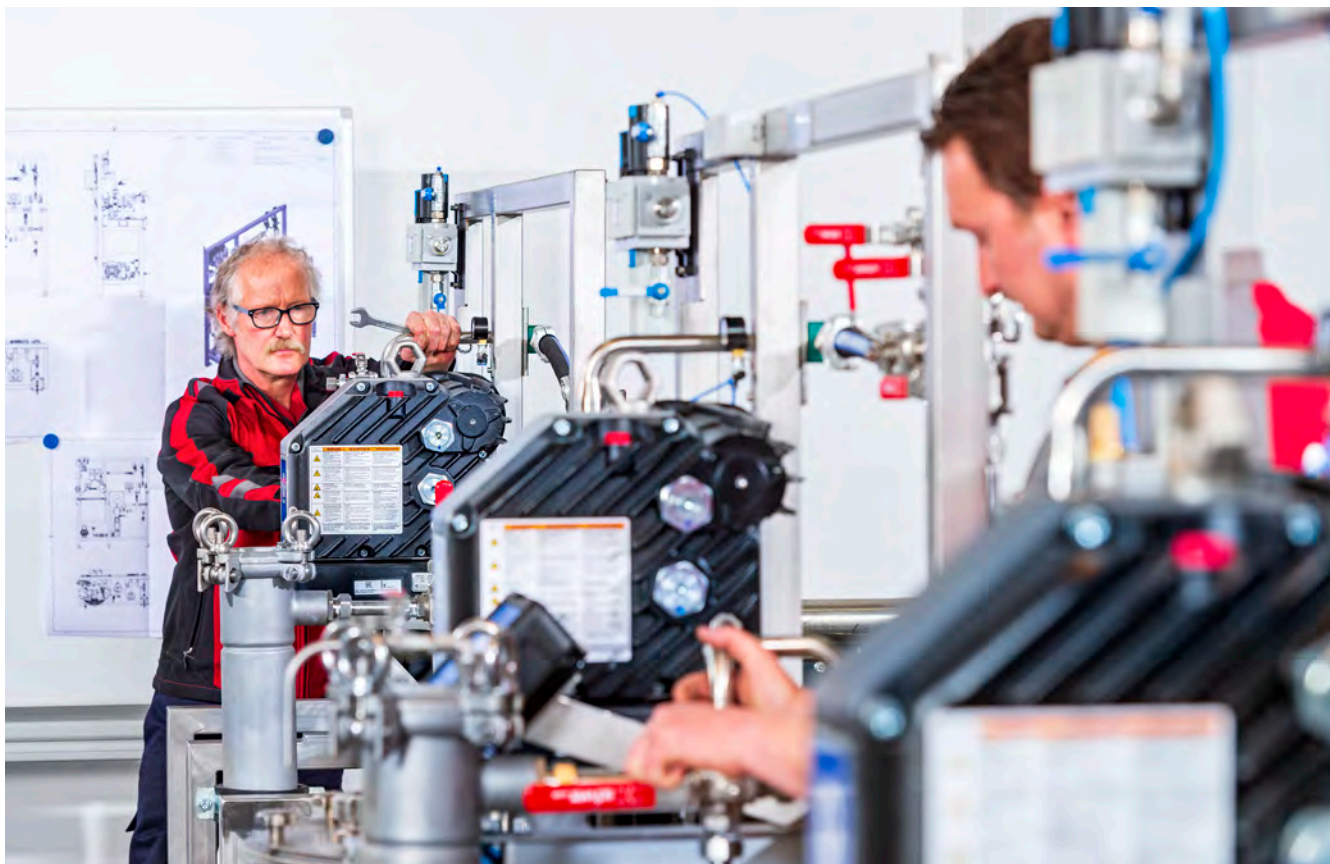
Up to 100 t

SCHRADER is a preferred specialist for innovative, individual, process-optimised solutions in plant engineering – from the prototype through to the finished production installation.

After completion and commissioning, we will continue to be your contact for continuous optimisation and all service matters.







## CONTROL ENGINEERING & PROCESS AUTOMATION

From manual mode through to fully automatic

- ▶ Advisory services to determine the necessary machine configuration
- ▶ Process requirements
- ▶ Customer-specific modifications
- ▶ Options and opportunities – from necessary to convenient

The aim is to provide balanced interaction between the components, control and measuring instruments under production conditions on-site.

### Control types:

- ▶ Pneumatic
- ▶ Hydraulic
- ▶ Electric

### Environments:

- ▶ ATEX
- ▶ German Water Resources Act (WHG)

## CERTIFICATES AND PERMITS

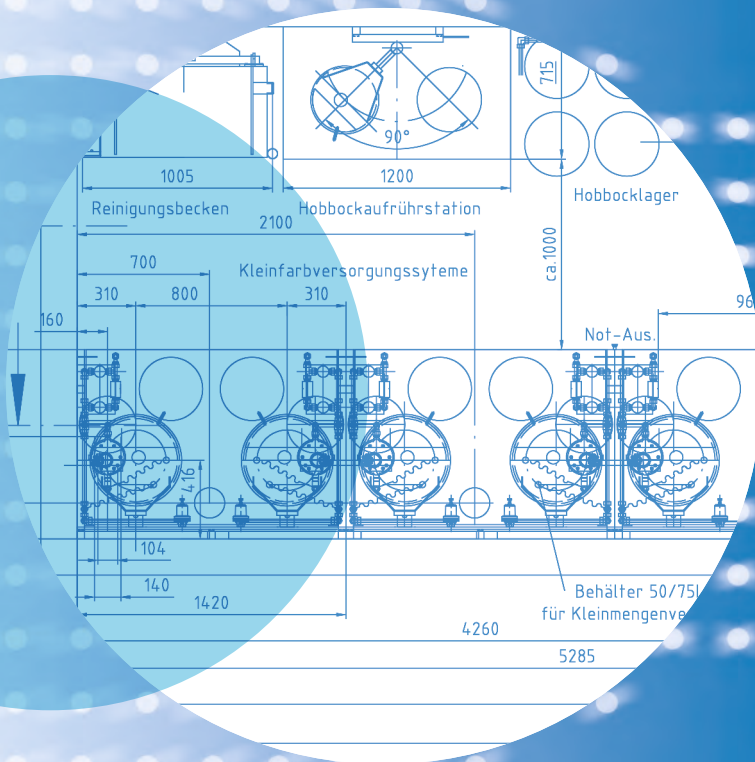
The companies in the SCHRADER Group have the following certificates and permits:

- ▶ DIN EN ISO 9001:2015
- ▶ Pressure Equipment Directive 2014/68/ EU Module G, A2
- ▶ AD 2000/HPO
- ▶ DIN EN ISO 3834-2
- ▶ Federal Water Resources Act (WHG) Sec.19.1
- ▶ ASME Section VIII Div.1 & Div.2
- ▶ SCC for contractors and manufacturing enterprises

The following standards and EU Directives can be applied:

- ▶ ATEX 2014/34/EU
- ▶ Ghost R Certificate ho
- ▶ Chinese Manufacture Licence D1, D2
- ▶ Good Manufacturing Practice
- ▶ FDA
- ▶ CFR title 21
- ▶ EU 10/2011
- ▶ EHEDG
- ▶ GAMP 5.0

Additional standards and Directives on request.



## PROCESS ENGINEERING • PLANT ENGINEERING • FLUID TECHNOLOGY

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