

TRADITION MEETS MODERNITY

Solution expertise for the spectrum of industrial parts cleaning

In metalworking, the industrial parts cleaning of workpieces and components is becoming increasingly important. The demands placed on modern cleaning processes are not only increasing in terms of surface quality, surface cleanliness and the defined residual dirt or residual particle values. The focus is also on process reliability and environmental friendliness. High-performance filtration systems ensure that cleaning fluids with a high degree of purity are available for as long as possible in order to guarantee greater efficiency, environmental compatibility and shorter process times.



View of the company headquarters of WK Systemtechnik in Spiegelau
Picture source: WK Systemtechnik

WK Systemtechnik

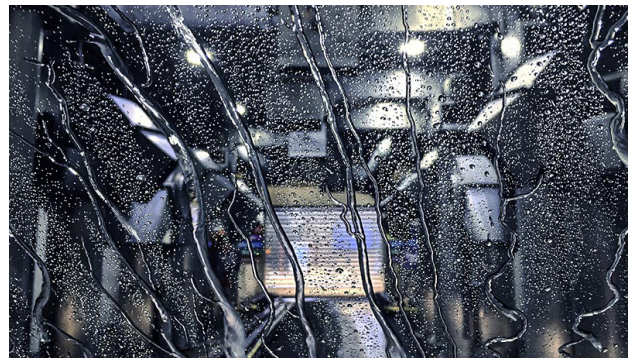
Cleaning technology through the ages. In 2014, WK Systemtechnik GmbH & Co. KG was founded in Spiegelau. Since then, the company has specialized in the development, manufacture and installation of industrial coating systems, aqueous cleaning systems and various types of preservation systems. Inline solutions enable seamless integration into production lines, machining centers and press lines.

The company also offers comprehensive support in the field of contract cleaning. WK Systemtechnik takes care of the entire cleaning process, whether for small batches, large batches or sample production.



Aqueous cleaning technology

In the field of aqueous cleaning technology, our customer WK Systemtechnik offers a completely newly developed generation of systems that meet the increasing requirements of VDA 19 and ISO 16232 for continuous products and individual parts. Due to the cost pressure in production, automation processes are on the rise, resulting in shorter cycle times. It is therefore necessary to clean components directly inline during the production process in order to meet the required quality standards, close the quality control loop and initiate immediate countermeasures in the event of deviations.



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Strict purity requirements

Industrial production processes require ever higher levels of cleanliness. Industrial cleaning technology from WK Systemtechnik must meet these requirements, using a wide variety of cleaning media and cleaning processes. Dirt must be removed from these cleaning media efficiently and continuously.



Cleaning system from WK Systemtechnik
Picture source: WK Systemtechnik

Our customer WK Systemtechnik has installed a bypass filtration system to filter the cleaning media in the water tank. Skimmers guide the surface layers of the liquid to the coalescer elements used. The powerful, innovative coalescer elements ensure efficient separation of oil and emulsions in large volumes.

Coalescer elements fulfill crucial tasks:

■ Oil and emulsion separation:

Coalescer elements are used to separate oil or emulsions from water or other liquids. They agglomerate smallest oil or emulsion droplets into larger droplets, which facilitates droplets, making separation easier.

■ Recovery from oil:

The agglomerated oil droplets can be recovered after separation, which leads to reduced waste and cost savings.

■ Protection of the environment:

The efficient oil/emulsion separation by coalescer elements helps to prevent pollution that is harmful to the environment pollution and to ensure compliance with environmental regulations.

Effective media treatment

By using the coalescer elements, our customer WK Systemtechnik was not only able to optimize the cleaning process on the systems, but also set new standards in terms of efficiency and environmental friendliness.

Not only has the downtime of the cleaning systems been minimized through the use of coalescer technology, but significantly longer bath service lives have also increased the company's productivity. The extended bath service life not only significantly reduces water costs, but also the energy consumption for heating the cleaning bath. This has a direct positive effect on operating costs and increases the efficiency of production.

SUSTAINABILITY THROUGH LOWER ENERGY CONSUMPTION

Thanks to the filter solution used, WK Systemtechnik was not only able to conserve its resources, but also reduce its energy consumption. Fewer refills and a longer bath service life mean less heating from 10 °C to 50 °C. This leads to a significant reduction in electricity consumption and supports the company's efforts to achieve sustainable production.

Innovation, efficiency and environmental awareness - FILCOM GmbH supports WK Systemtechnik with Filtration Group's coalescer technology for future-oriented production. Joint steps towards a sustainable and efficient future.



Coalescer elements from Filtration Group Industrial
Picture source: Filtration Group Industrial