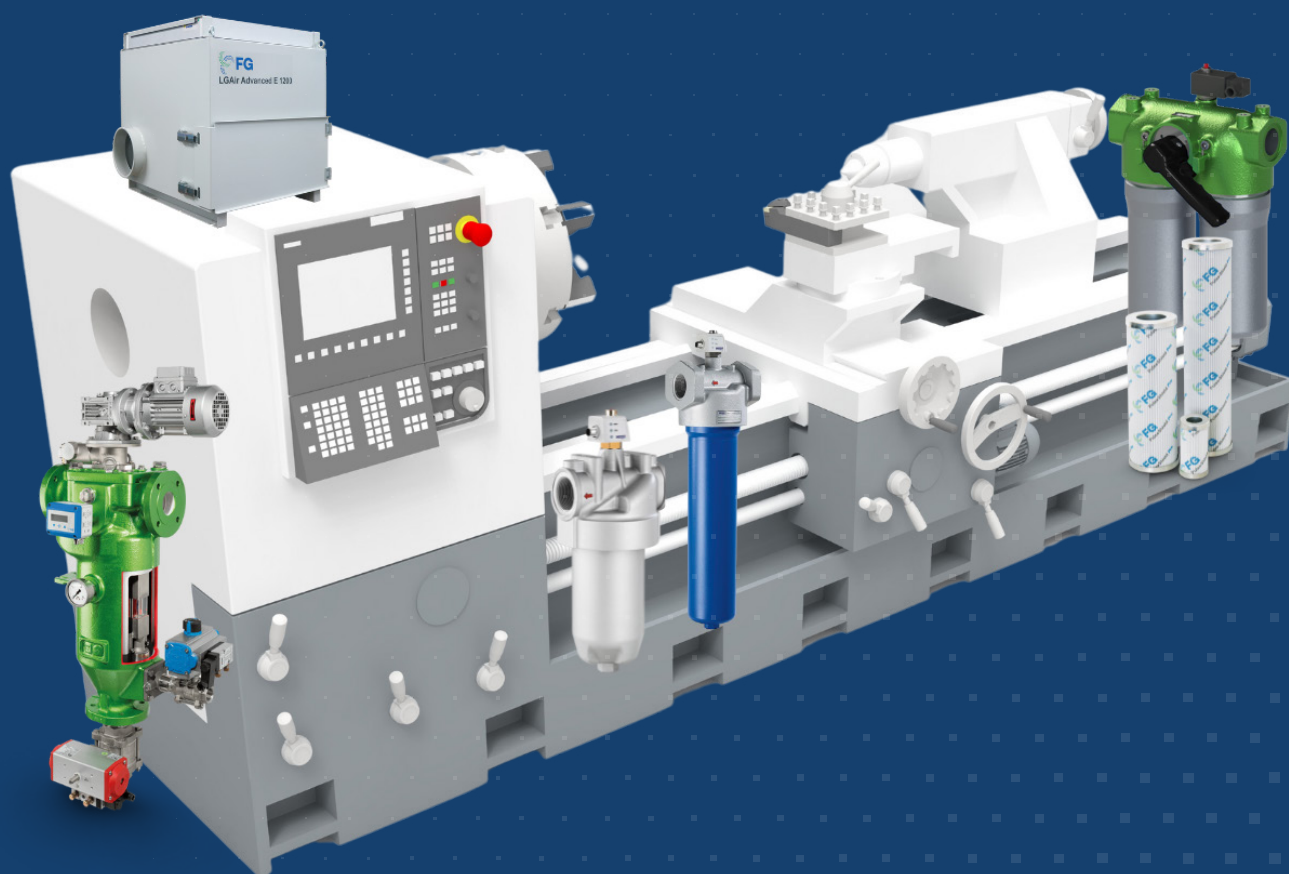


THE WHOLE WORLD OF FILTRATION.



COOLING LUBRICANT PREPARATION

Automatic filters



HYDRAULIC DRIVES FOR MACHINE TOOLS

Duplex filters
Filter elements



SEPARATION OF AEROSOL MIST

Oil aerosol separation devices



OUR PARTNERS

INNOVATIVE AND RELIABLE

FILTRATION CONCEPTS FOR CLEAN SOLUTIONS

Strategically aligned partnerships ensure optimal market and customer proximity and are the prerequisite for reacting quickly to customer requirements and delivering the latest state-of-the-art filtration technology with pinpoint accuracy. Thanks to strong partners at our side, FILCOM GmbH is able to provide its customers with uniform, top quality standards.

Filtration Group GmbH

The Filtration Group has a very broad product range. The offering ranges from components such as filter elements to filter housings and modules to filter systems. Filtration Group GmbH specializes in the purification and treatment of industrial oils and lubricants as well as air and water. With extensive application know-how, its own research and development, technical center, laboratory and design, it offers its customers tailor-made filter components and process engineering modules.



Hengst Filtration

The name Hengst stands worldwide for people with passion, lean structures, innovative technology and operational excellence. Hengst Filtration offers a complete product range of high-tech filters and filter elements for the highest demands. For every application you will find the right solution for the filtration of hydraulic fluids, lubricating oils, industrial fluids and gases.

PARTNER FOR CLEAN SOLUTIONS



HYDRAULIC FILTRATION

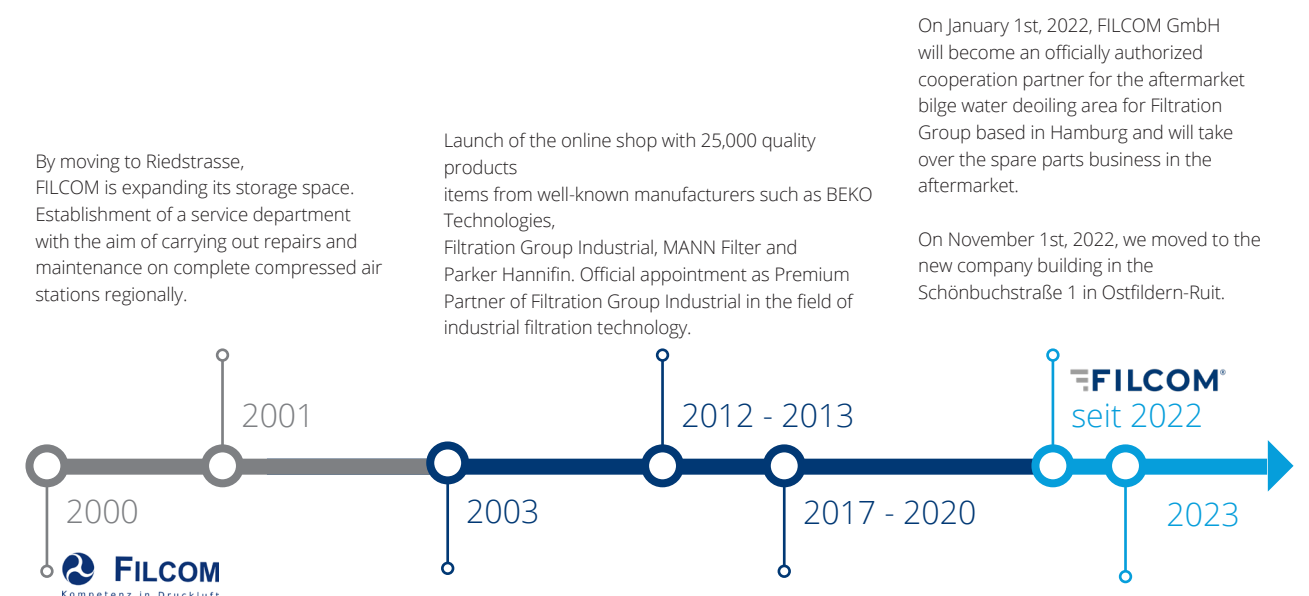
High-performance filter systems have become an integral part of modern hydraulic and lubrication systems. They protect highly sensitive components, ensure that the required purity of the fluid media is maintained and ensure the necessary reliability and cost-effectiveness of the systems.

FILTRATION IN HYDRAULIC AND LUBRICATION CIRCUITS

...for more efficiency and cost-effectiveness. A perfect filtration is the prerequisite for the functionality of highly sensitive hydraulic systems. In addition, as functional requirements become increasingly narrow, tolerances of the hydraulic devices and systems, the prescribed purity classes of the fluid media are strictly adhered to. In doing so, they equate one ensure consistently high efficiency in energy transmission and at the same time protect the system components from damage and premature wear.

ABOUT HISTORY

Quality makes a product and service unique and distinctive. The quality and the associated service distinguish first-class products from mass-produced items. FILCOM GmbH sees itself as a reliable market participant and premium partner in the areas of industrial compressed air and filtration technology. We counter the general trend of fast pace with constant reliability and service in order to offer our customers the optimal benefit.



MACHINE TOOLS

Filter systems play a crucial role in **protecting sensitive hydraulics** in mechanical and plant engineering by continuously cleaning fluids in the circuit. Efficient solutions for various **application areas in the hydraulic circuit** prevent the ingress of liquid or solid contaminants that could damage the components and impair the efficiency of the hydraulic fluids. The selection of material and structure of the filter media ensures **a high dirt holding capacity** and a **constant separation performance** over the entire service life. Even under extreme conditions such as strong pressure fluctuations or pulsations, the purity classes of the liquids can be maintained.

COOLING LUBRICANT PROCESSING

A **combination** of **self-cleaning automatic filters** and **disposable depth filter elements** enable efficient cooling lubricant filtration under extreme conditions. For internally cooled tools, rotary unions and fine parts Working holes offer **duplex filters** the highest level of safety. The unique one-handed operation ensures uninterrupted operation.

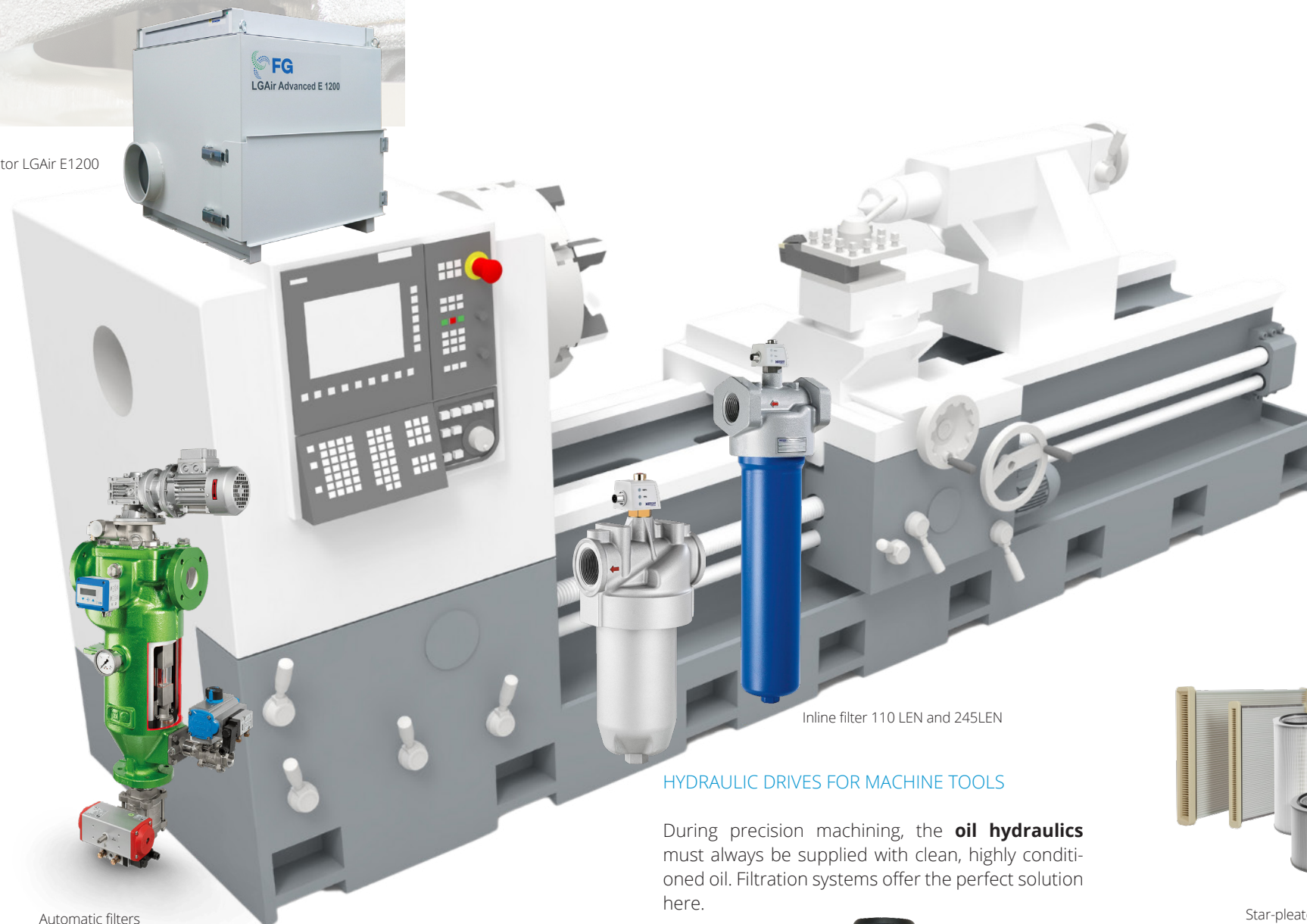


Duplex filter for coolant lubricant applications
PI 214



FG PulseShield technology

Oil aerosol separator LGAir E1200



Automatic filters

Inline filter 110 LEN and 245LEN



Dust filters



Star-pleated dust filter elements

HYDRAULIC DRIVES FOR MACHINE TOOLS

During precision machining, the **oil hydraulics** must always be supplied with clean, highly conditioned oil. Filtration systems offer the perfect solution here.



Filter elements with PURE POWER

Our automatic and process filters are used on systems from the following manufacturers:

- Trumpf Werkzeugmaschinen
- DMG Mori Maschinen
- Gebr. Heller Maschinenfabrik
- Knoll Maschinenbau
- Hüller Hille GmbH
- DGS System GmbH

In metalworking and processing, over 90 percent of cooling lubricants still need to be cleaned today. FILCOM GmbH's comprehensive product range of hydraulic and automatic filters ensures reliable operation without downtime thanks to automatic cleaning and disposal systems.

SUCTION FOR DRY MACHINING AND MINIMUM QUANTITY LUBRICATION

The processing of gray cast iron produces short chips with a **highly abrasive effect** and a **high proportion of fine dust**. Star-pleated filter elements are gently cleaned with a patented cleaning system and ensure maximum service life.

PRECISION THROUGH LUBRICATION: MACHINE TOOLS IN BEST SHAPE

LINE FILTERS

In-line filters in hydraulic systems separate solids from pressure fluids and lubricating oils. They offer tailor-made solutions for the requirements of a wide range of applications. A robust housing, the flow-efficient design and an extensive range of accessories make attachment to pipelines easy.



In-line filter 110 LEN and 245 LEN

AIR BREATHERS

In many areas of application, air breathers fulfill a central role in the filtration of transmission, lubricating and hydraulic oil by protecting the systems from external contamination. The ambient air that passes through openings into containers and tanks for the operating fluids usually contains dirt particles or moisture. Both limit the sensitivity of components in the hydraulic system in their performance or damages it.



Air breathers

STRAINERS

In many areas of application in the machine tool industry, strainers are the method of choice for reliably processing liquids. Strainers are used as in-line filters for filtering oils, water, aqueous solutions or aggressive media.



Strainer 16 FE

DUPLEX FILTERS

The changeover lever ensures loss-free switching of the liquid flow in the duplex filters and thus guarantees maximum cost-effectiveness. The in-line filters can be used around the clock without interrupting operation, so that maintenance work can be carried out while dirt collection is completely utilized. capacity to be able to do this during operation.



Duplex filter PI 210

SUCTION RETURN-LINE FILTERS

Suction return-line filters are preferably used in mobile machines. The return stream is routed via the filter element. Some of the filtered oil is sucked in by the pump. The remaining part flows into the tank via the preload valve. This means that finely filtered oil with positive pressure is available to the suction pump. If the return flow stops briefly, the pump can suck directly into the tank via a valve and a coarse protective filter.



Suction return-line filter Pi 550

AUTOMATIC FILTERS

Offer full filtration performance while cleaning at the same time. The self-cleaning function, which is controlled either via the system's own pressure or an external pressure medium, enables long-term use in various areas of application. Its stable construction made of high-quality materials that hardly wear out guarantees a long service life and low maintenance costs and makes the filter insensitive to coarse particles and foreign bodies. Thanks to the modular design, the filter adapts to any spatial conditions.

Automatic backflushing filters are suitable for the finest and precise filtration of cooling lubricants as well as for fine filtration to protect high-pressure internal coolant supply on machine tools.



Automatic filters

DUST FILTERS

Dust filters offer optimal filter function for maximum filter performance. Every industrial application is associated with specific dust pollution. Since countless system parameters have to be taken into account, the technically and economically optimal filter design is a complex task. Dust filters are equipped with highly efficient filter technology and are used to separate high dust loads and difficult dusts.



Dust filters

OIL AEROSOL SEPARATOR

Oil aerosol separation devices protect your employees, operating resources and production facilities effectively and efficiently from cooling lubricant aerosols and increase productivity. With their highly efficient coalescer principle, they achieve high separation values for non-water-miscible cooling lubricants and cooling lubricant emulsions that are well below the legally required limits for keeping the air clean. Even with high raw gas loads, the devices run reliably with economical maintenance intervals and long service lives of up to 2 years.



Oil aerosol separator LGAir Advanced E1200



MultiCNC

TRIED AND TESTED & CONVINCING

REFERENCES THAT SPEAK FOR THEMSELVES

ELEMENTARY VALUES GUARANTEE PERFECTION IN MILLING TECHNOLOGY

The world of milling requires precision down to the smallest detail and highly sensitive systems are essential. Our customer Stettner Zerspanungstechnik GmbH relies on state-of-the-art machinery for the production of mounting shells, valve blocks and bearing housings. This is where the expertise of Filtration Group Industrial's filter systems comes into play - a crucial contribution to protecting the sensitive hydraulics of the milling machines.

In high-quality hydraulic and lubrication systems, double switching filters play the central role as working filters with defined oil purities. These ensure reliable operation without costly downtime.

The heart of every filter is the filter element, which controls the filtration process. Stettner Zerspanungstechnik GmbH relies on surface filters made of stainless steel wire mesh with minimal flow resistance for the filtration of hydraulic and lubricating oils. The **powerful FG duplex filter Pi 370** reduces solid contamination to the prescribed purity class. It protects the hydraulic fluid from dirt ingress in the long term. The filter elements used impress with outstanding results in every desired purity class and impress with their high dirt holding capacity.



FG filter elements for hydraulic fluids



FG duplex filters for use in CNC milling machines

In a state-of-the-art production facility where precision machines form the basis for the production of first-class products, the quality of the cooling lubricants plays a crucial role. The proven technology of the double switching filters from Filtration Group Industrial is used here. These filters are more than just a protective device - they guarantee smooth operation without costly downtime.

The powerful duplex filters minimize wear on expensive precision machines and make a significant contribution to improving the surface quality of manufactured products. In this demanding environment, Filtration Group Industrial's filters provide the optimal basis for efficient, safe and economical production of high-quality goods - without any process interruption during filtration.



FG duplex filters

The use of the duplex filter as a safety filter by our customer Schäfer Kunststofftechnik GmbH is particularly impressive. In this special application it serves as a true police filter for the filtration of cooling lubricants. A powerful pump sucks in the cooling lubricant and feeds it back into the spindle through the duplex filter. Here the filter takes on a safety function and offers internally cooled tools, rotary pressure guides and fine machining bores the highest level of safety.

Thanks to the tried and tested technology of duplex filters from Filtration Group Industrial, not only the efficiency in production is increased, but also the service life of the machines extended - an impressive example of the perfect combination of innovation and practical experience.



WE CONVINCE

FILTRATION SOLUTIONS FOR MACHINE TOOLS

ALMOST 25 YEARS EXPERTISE

Trust in FILCOM GmbH. With over **40,000** satisfied customers in **90** countries worldwide, we are your reliable partner for filtration and compressed air technology.

SUCCESSFUL WITH FILCOM

Our **logistics concept** ensures the long-term availability and efficiency of your systems in compressed air and filtration technology.

ALL FROM A SINGLE SOURCE

FILCOM GmbH offers security, cost-effectiveness and performance through first-class **analysis and consulting expertise**. Individual recommendations for maximum customer satisfaction!

OUR KNOW-HOW

For your projects. FILCOM GmbH is there to help you with special challenges. Comprehensive **analytics, expertise** and tailor-made solutions for optimal filtration performance!

EXCELLENCE IN FILTRATION

And we have been doing this since 2000. We save our customers money and optimize production processes. We have been an **official premium partner of Filtration Group Industrial** since 2012. Thanks to the new **sales partnership with Hengst Filtration**, we have been able to offer our customers an even more extensive filtration product portfolio since April 1st, 2023.



THE ENTIRE WORLD OF

COMPRESSED AIR ■

FILTRATION ■

TECHNOLOGY. ■

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