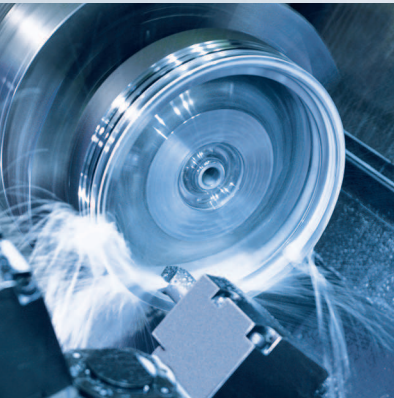


# MAHLE

*Industry*

## WELCOME TO THE COMPANY OF TOTAL FILTRATION

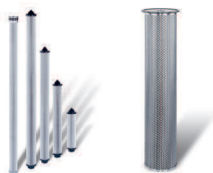
INDUSTRIAL FILTRATION







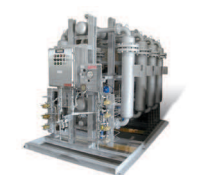
Dust filter cartridges



High-end cartridge and Topchange filter elements



High-end cartridge filter housings



ProGuard system

### **MAHLE Industrial Filtration: Partner for clean solutions**

As an innovative solutions partner, MAHLE Industrial Filtration has been producing high-quality industrial filters for fluid technology, air filtration, process technology, as well as separation and water for many years. Our filters and systems are just as efficient and economical in the plant and machinery construction, chemical, pharmaceutical, and food industries as in environmental, drive, and energy technologies, as well as maritime and mobile machinery systems.

### **Fluid technology**

As one of the world's leading fluid filtration partners, we provide machine builders and users of mobile and stationary hydraulic systems with highly effective filters and filter systems, units, and accessories to keep hydraulic and lubricant fluids clean.

Our automatic filters have become indispensable in countless applications. They are used for gross to fine filtration of fluids, pastes, and similar materials, and for homogenization. The advantage to you is rational 24-hour, non-stop operation with automatic cleaning and disposal processes.

Additionally, our product range is extended by simple, duplex, and back-flushing filters for filtration of all types of fluids in maritime operations – from fuels to lubricants to seawater.

### **Air filtration**

Whether in surface technology, chemical, food, pharmaceutical, machinery construction, tooling machines or energy technologies, our filters, units, and systems for dust removal from air and gases increase productivity, support product recycling, and contribute to increased environmental protection and workplace safety.

### **Process technology**

We provide a unique spectrum of filtration and separation solutions in process technologies, complemented by our extensive range of complete filters, filter elements, spare parts, and services. Thus we offer sophisticated overall technical solutions, tailored to the application at hand—with comprehensive engineering capabilities and decades of experience in advanced filtration technologies for many applications.

We are a leading supplier of high and low pressure, ASME and non-code, bag and cartridge filter housings and systems, with established patented systems for a wide range of applications.

### **Separation and water**

With our innovative products we offer comprehensive, custom-tailored solutions, especially for liquid treatment including oil separation, fuel and oil treatment, ballast water, process water, waste water, and cooling water treatment.



# MAHLE INDUSTRIAL FILTRATION YOUR COMPETENT PARTNER

FOR FILTRATION AND SEPARATION

## PLANT AND MACHINERY CONSTRUCTION

- Oil aerosol separation
- Hydraulic fluid filtration
- Oil removal
- Coolant treatment
- Sand blasting and dry processing
- Washing and waste water treatment
- Industrial parts cleaning

## ENERGY TECHNOLOGY AND POWER GENERATION

- Turbine oil filtration, treatment, and dewatering
- Wind power
- Transformer oil treatment
- Condensate filtration and deoiling
- Primary coolant filtration
- Pump seal protection
- Spent fuel pool filtration
- Radioactive waste and effluent filtration
- Cooling water treatment
- Boil water treatment
- Particulate control during underwater cutting operations
- Filtration for fire fighting systems
- Suction air filtration for gas turbines

## DRIVE TECHNOLOGY

- Lubricating and transmission oil treatment
- Fuel oil treatment
- Turbine oil filtration, treatment, and dewatering
- Wind power plants
- Cooling water treatment

## MOBILE MACHINERY SYSTEMS

- Construction equipment
- Cranes, industrial trucks
- Agricultural machinery
- Railway vehicles
- Fire engines

## AUTOMOTIVE

- Wet paint overspray
- Flame gunning
- Powder coating
- Filtration of phosphated baths and priming coat fluids
- KTL and ETL bath filtration
- Condensate deoiling
- Water treatment
- Washing and waste water treatment
- Passivation
- Cooling lubricants treatment
- Phase separation
- Oil treatment



*Oil aerosol separator unit*



*Fuel treatment system*



*Mechanical emulsion and foam breaker*



*Bag and cartridge filters*





## ENVIRONMENTAL TECHNOLOGY

- Filtration of air and gas
- Oily water separation
- Water treatment

## WATER MANAGEMENT

- Industrial water management: treatment of cooling water, service water, quench water and process water
- Communal water management: treatment of drinking water, well water, and waste water

## OIL AND GAS

- Gas filtration
- Coalescing
- Amine filtration
- Glycol filtration
- Petrochemical industry
- Oil production
- Crude oil dewatering
- Condensate deoiling
- Slop oil treatment
- Surface water treatment
- Fuel oil treatment
- Injection water deoiling
- Waste water treatment
- Fuel treatment
- Rubber and plastics industry

## CHEMICAL INDUSTRIES

- Paint and coating production
- Galvanic industry
- Pharmaceutical industry
- Phase separation
- Oil removal
- Bulk chemicals
- Chemical intermediates
- Brine
- Catalyst recovery
- Resins, acids, alkalis, and ink
- Carbon removal
- Sulphur filtration

## FOOD AND BEVERAGE

- Production of chocolate, cocoa and gelatine, edible and vegetable oil, sugar and sweeteners, and beverages
- Salt bath filtration in cheese factories
- Filtration in the dairy industry
- Filtration in the starch industry
- Filtration of food additives

## MARINE INDUSTRY

- Oily water separation
- Oil treatment and filtration
- Condensate and dock water deoiling
- Treatment of cooling water, bilge water, and ballast water
- Fuel treatment and filtration
- Combustible filtration



*Dust collector*



*Automatic filter*



*Duplex filter*



*Filter elements*



CERTIFIED  
**QUALITY AND SERVICE**  
 FROM A SINGLE SOURCE

**Service, from spare parts supply to training**

Our extensive filter technology program also includes high-performance spare parts service for worldwide availability. The replacement filter elements are manufactured according to the same strict production criteria as the original MAHLE filter elements. Customer-specific special versions are available upon request. We teach professional service and maintenance in practical training sessions. And for commissioning or maintenance on site, our service technicians are available worldwide. The result: more reliability, more efficiency, and more performance for you.

**Whatever the application—we are there for you**

Based on our experience across many industries, we combine all our expertise in a worldwide network, use synergies, and, as your partner, use the power of innovation to develop the optimal solution for your application, from filter elements to modules. With certified quality, of course. Designed and tested according to DIN and ISO standards, with associated industrial approvals. In short, an engineering partnership for complete system solutions, with the extra service. For more functionality, more safety, more reliability, and more efficiency.

**Performance that can be measured**

To evaluate the efficiency of filtration, we provide a wide range of experiments in our laboratories. For example, determination of cleanliness classes with automatic particle counting, gravimetric analysis of overall contamination, microscopic analysis, and testing with a raster electron microscope in combination with a microprobe. For online measurement in field trials of impurities in pressure fluids and for sampling, we have mobile measurement systems available.

**Standards for fluid technology, partly valid for process technology as well—e.g.:**

ISO 16889	ISO 4406
ISO 3968	ISO 2941
ISO 3724	ISO 11170
DIN 24550	

**Standards for air filtration—e.g.:**

EN 779	EN 1822
IEC 60335-2-69	VDI 3926

**Certifications—e.g.:**

DIN EN ISO 9001, DIN EN ISO 14001, EMAS

Retentions test certificates of the BGIA/St. Augustin

FDA approval for food industries

Product specific approvals for various fluid and automatic filters, for air filtration, and process filters, e.g.: ATEX, Type Approval Germanischer Lloyd, Lloyd's Register, GOST-R, ASME, PED



*Automatic filter variable series*



*Screen basket duplex filter*



*Conical filter cartridge for dust filtration*



*Flange-mounted filter*

[www.mahle-industrialfiltration.com](http://www.mahle-industrialfiltration.com)

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