

Industrial filtration  
of gases and liquids







# KAYSER FILTERTECH CZECH REPUBLIC s.r.o.

is a leading manufacturer of elements for the industrial filtration of polluted gases and liquids.

Our expertise and long-term experience (and that of the Kayser group), guarantee the optimal technical and economic solutions in this field.

We have references from most industries where textile filtration systems can be applied including cartridge filtration systems. Our filter elements have a wide range of applications – from small mobile filtration units to large complexes in demanding power engineering conditions or industrial waste incineration plants, where filtration is addressed together with desulfurization and exhaust gas neutralization.

We are well aware that only the highest quality can guarantee product reliability and customer satisfaction.

Our long-standing philosophy of applying state-of-the-art technology in our manufacturing processes allows us to guarantee reliability and flexibility of supply.

Active communication with customers is a primary source of information for optimizing individual products, manufacturing processes and technologies. Precise and thoroughly executed design ensures trouble-free installation and reliable operation in bag houses and associated technology.

Our quality management system maps all processes in the company, and their management ensures product quality assurance and adherence to customer requirements. Our Quality and Environment systems are certified in accordance with EN ISO 9001 and EN ISO 14001. Our quality requirements at all levels continuously help us build brand prestige, customer trust and motivate our employees.

# History

- 1968 Inception of industrial production of filter elements in Vysoké Mýto within the cooperative enterprise VKUS.
- 1990 After the political changes in Czechoslovakia, Ecotex was founded, which transformed the original production programme and activities of VKUS.
- 1995 Establishment of the Joint Venture Ecotex within the KAYSER Filtration Group.
- 1996 Opening of a new production plant with modern and high-performance equipment for the production of filter elements.
- 1997 Implementation and certification of a production and quality management system according to SN EN ISO 9001.
- 1998 Construction of stage II of the production plant for the automated production of filter elements.
- 1999 Establishment of the new production unit DIVIZE METAL focused on the production of support cages and metal components for industrial filtration.
- 2000 Establishment of the ATS application centre for testing and development of filter media.
- 2003 Implementation and certification of the QMS, EMS and OSH integrated management system.
- 2007 Opening of a new production plant for the production of support cages and metal components with highly advanced production equipment.
- 2008 Acquisition of the entire business share by the parent company KAYSER Filtertech GmbH.
- 2009 Investment in new technologies in the METAL division.
- 2011 Construction of new warehouses for the METAL division.
- 2012 Introduction of a new logo and new graphics for the company.  
Celebration of 20 years of ECOTEX s.r.o.
- 2016 Investment in infrastructure in the METAL division.
- 2017 Investment in new technologies in the METAL and TEXTIL divisions.
- 2019 Business name changed to **KAYSER FILTERTECH CZECH REPUBLIC** s.r.o.
- 2020 Investment in the complete roof repair in the TEXTILE division.
- 2021 Investment in larger car park in the TEXTILE division.

# Gas filtration

We produce and supply filter elements for all types of dust removal equipment (pulse jet regeneration system, blowback, mechanical regeneration). We supply highly efficient filter media based on non-woven textiles and fabrics.







## Specification elements

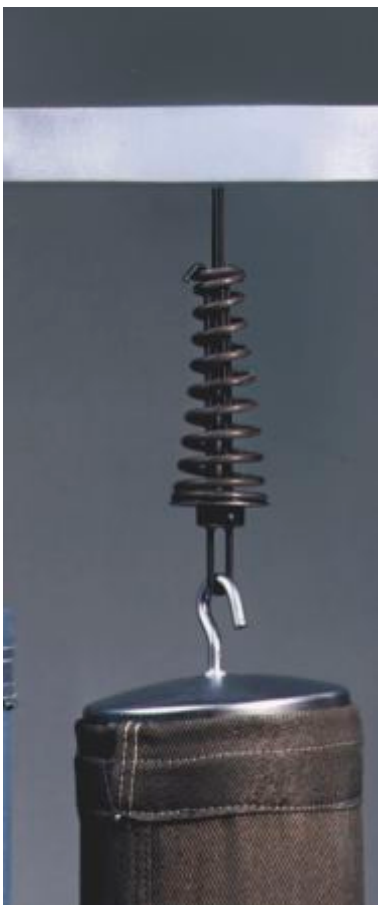
- Filter bags – PULSE–JET bags (for support cages)
- Filter bags – REVERSE air bags (with spacing rings)
- Filter pockets – Single pockets (flat bags)
- Filter pockets – multi pockets (6-12 multi pockets)
- Special version – special filter elements according to the documentation

## Filter media based needle-felt and fabric

- Polypropylene – PP
- Polyester – PE
- Homopolymer polyacrylonitrile – PAN (Dolanit, Ricem)
- Polyamid – PA
- M-Aramid – AR (Nomex)
- Polyphenylensulfide – PPS (Procon)
- Polyimide – PI (P84)
- Polytetrafluorethylen – PTFE (Profilen, Teflon, Rastex)
- Glass – GL



## Filter media and fabric with ePTFE membrane



# Support cages

We produce and supply support cages for a wide range of bag houses utilizing filter bags. We use modern CNC machines to produce a wide assortment of support cages. We can supply Support cages in large volumes, whilst still meeting the strictest quality requirements.







## Shapes

- Round
- Oval
- Star

## Material

- Various types of stainless steel
- (1.4307 - AISI 340L, 1.4404 - AISI 316L, 1.4571 - AISI 316 Ti, ...)
- Carbon steel St 37.2
- Zinc-plated wire
- Copper-plated wire

## Surface treatment

- Pickling and passivation for stainlesssteel cages
- Electroplating + blue passivation
- Powder paint (electrostatic coating)

# Filtration of liquids

We produce and supply filter cloths for chamber and membrane filter presses, disc filters, bag filters, frame filters and belt filters. We provide highly efficient fabric-based filter media (staple, multifilament, monofilament or combinations thereof) and non-woven textiles. KAYSER filter elements can be applied in a variety of technological processes and water/liquid cleaning applications.









# We have an extensive range

of filter elements and support cages

- power engineering
- waste incineration plants
- cement and lime works
- production of building materials
- the chemical industry
- glass and ceramic production
- mechanical engineering
- production of bituminous mixtures
- steel industry, foundries
- coke production
- paint and pigment production
- paper industry
- coal and stone mining
- wood production and processing
- sugar industry
- water treatment plants



# Laboratory, application and technical service

The purpose of laboratory service is to perform analyses of filter media and used filter elements, these are carried out using state-of-the-art laboratory and computer equipment.

## Laboratory service includes

- ✓ chemical-physical tests
- ✓ mechanical-technological tests
- ✓ monitoring the quality of new materials before their entry into the production process (input laboratory check)
- ✓ monitoring the current state of used filter elements
- ✓ analysis of the causes of filter element damage



## Application service

The goal of the application service is comprehensive processing of all available information from the customer, from the laboratory and technical service in order to select the optimal filter medium for the dedusting process. From a very wide range of filter media, we recommend the most technically and operationally suitable variant.

When applying a filter medium, we put great emphasis on the long life of the filter element and the cost effectiveness of the proposed solution. The application is supported by the long experience and extensive knowledge of the application technicians who use special databases and information systems for their tasks.

## Technical service

The goal of the technical service is technical assistance in solving problems with bag houses at the customer's site. For this purpose, our technical team is equipped with a service vehicle and measuring instruments for measuring the required HVAC parameters.

## Implementation service

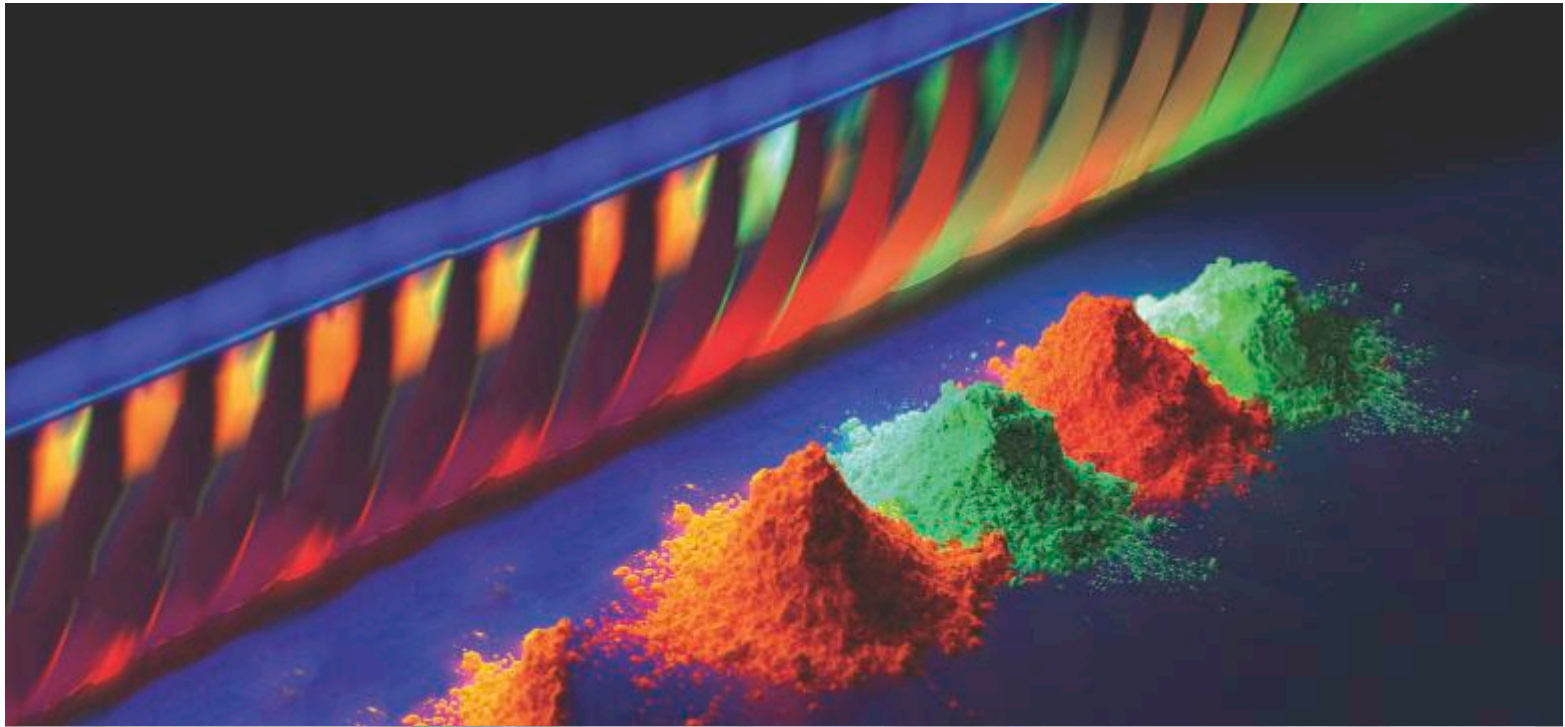
The goal of the implementation service is the implementation of service activities within projects involving complete replacement of filter elements, including the agreed scope of related repairs of bag houses. The implementation service is performed by experienced technicians under the supervision of a project manager.



# LEAK DUST®

LEAK DUST® enables a quick pinpointing of leaks in exhaust air cleaning equipment, reducing the time spent by personnel identifying tears, holes and bad seals in bags. It also allows for the detection of structural air leaks in the system such as weld cracks and problems with the fitting of metal enclosure covers. LEAK DUST® is a light fluorescent powder which is injected into the collector, following the path of least resistance and accumulating around the source of the leakage.

The inspection must be carried out using a suitable ultraviolet lamp and the precise location of any leakage can then be found visually.





# Cartridges and frames

Every industry has its own problems with dust emissions and every problem can require a different solution. Many baghouses are used for applications which now stretch their capabilities due to new production needs or new government regulations.

## Cartridge filters

Cartridge filters are commonly used in procedures involving the processing of cereal, paper, aluminium, coal and cement, wood, air purification for technological purposes, very fine dust filtration resulting from plasma cutting, metal grinding and abrasion, dust removal after sand-blasting, galvanizing and welding fumes.

This type of filter is especially popular in powder paint shops, as well as in the food, pharmaceutical and chemical industries.





## Cassette filters

Used in the process of pre-filtration. Our offer includes products in galvanized metal frames or cardboard frames. The cardboard ones are available in a water and oil resistant finish. You can choose from a variety of sizes and materials with an advanced construction that enhances filtration efficiency. There is also an open-frame cassette filter that allows you to replace the filter cartridge yourself.



## Pocket filters

Pocket filters are produced from fibres with an advanced construction.





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