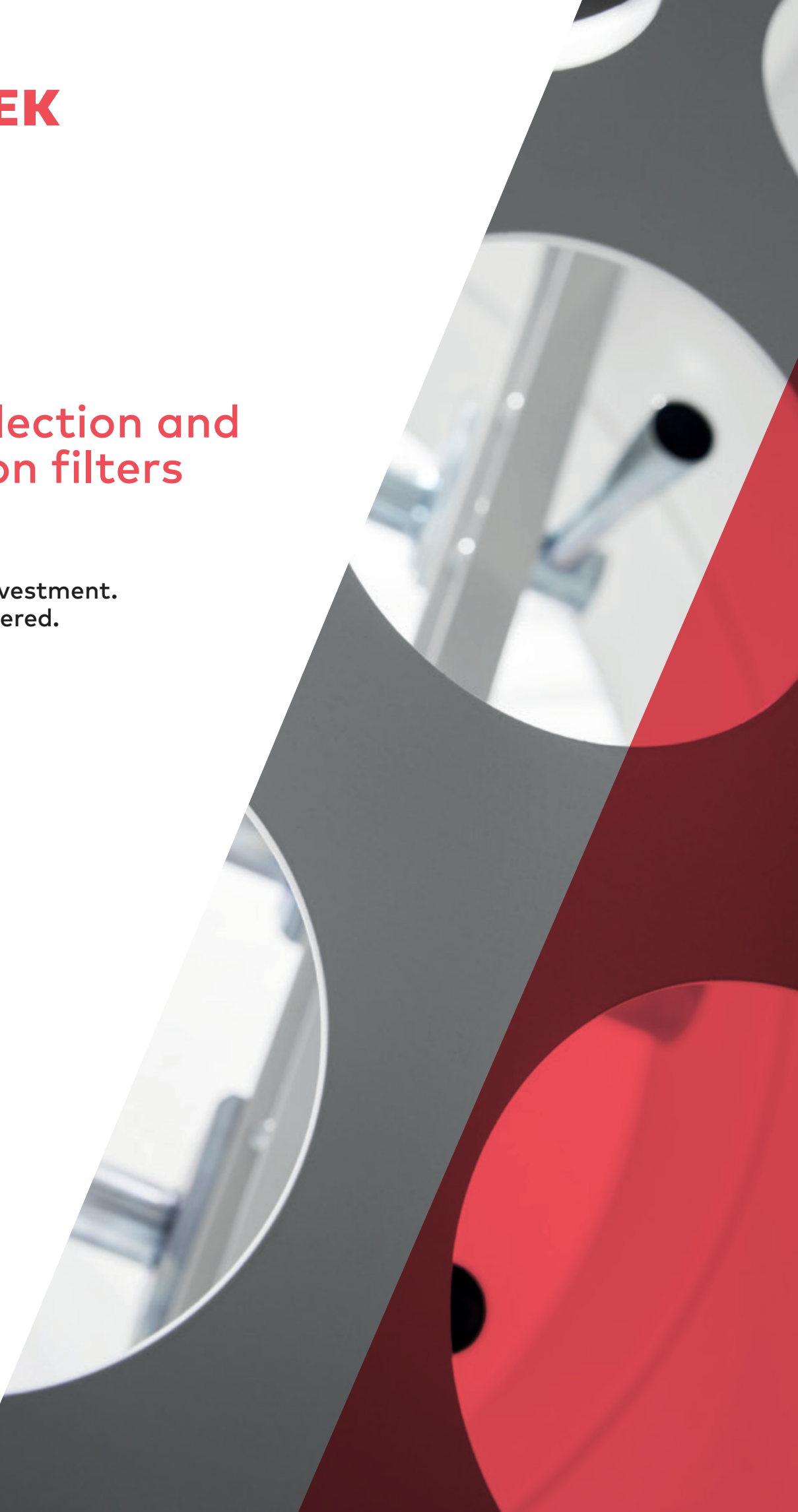


**SIMATEK**  
Filter Technology

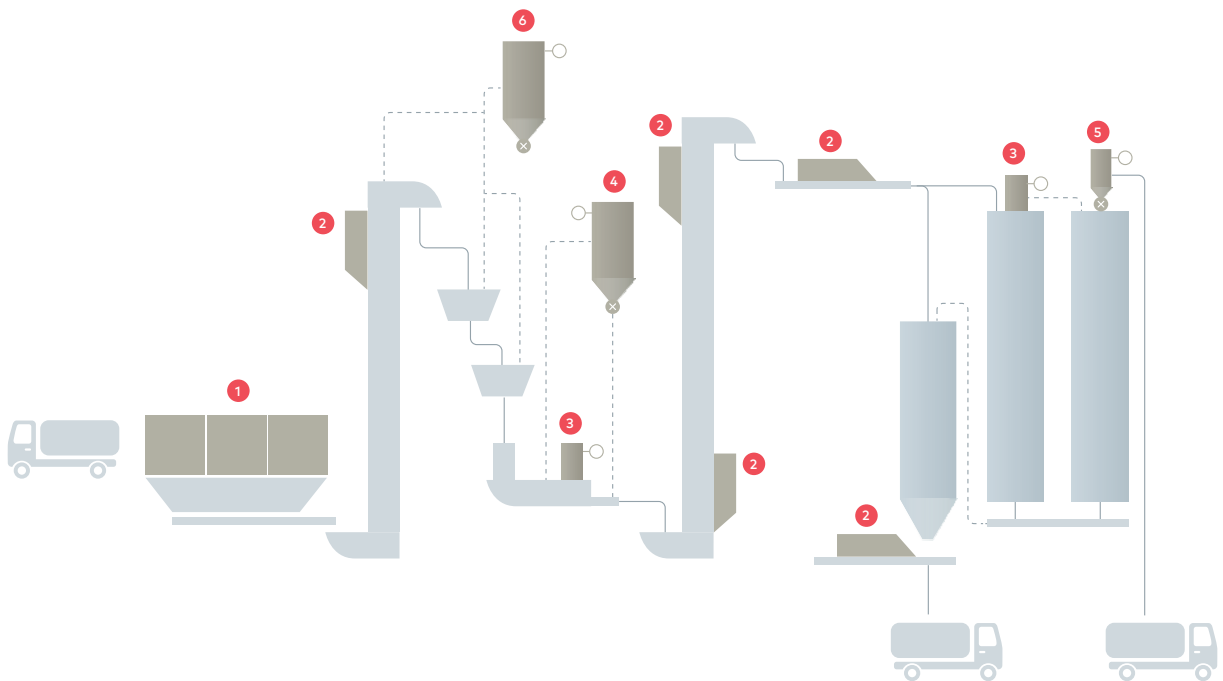
## Dust collection and aspiration filters

An optimised investment.  
Effectively delivered.



# Dust collection and aspiration (DCA)

Simatek engineers and manufactures a wide range of pulse-jet bag filters designed to work with dust explosive atmosphere and meet international standards and certifications. We also supply turnkey aspiration systems, pneumatic conveying, and industrial central vacuum cleaning systems.



1 Intake-pit filter 2 Spot filter 3 Dome filter 4 High-capacity separator 5 Aspiration filter

## Industry requirements:

- Implementation according to ATEX EN 14491 and VDI 3673 directives.
- Capacity: from 3,1 to 435,6 m<sup>2</sup>.
- Pressure shock resistance: from 0,64 to 2 bar.

## Application of our DCA filters

Our solutions are customised to meet specific customer needs while being efficient, environmentally friendly and good value for money. You get:

- Quick return on investment.
- Optimal use of resources.
- Low operating costs (reduced maintenance costs + minimum downtime).

# Working with us

## It's about much more than a high performance filter

### Making a difference

At Simatek, we are air filtration experts. Although filters are often a smaller element of a larger solution, they play a key role in plant performance, employee safety, and protection of the environment. At Simatek, we take a holistic perspective. We engineer our products and solutions to provide maximum performance, while making sure they are also financially the best choice.

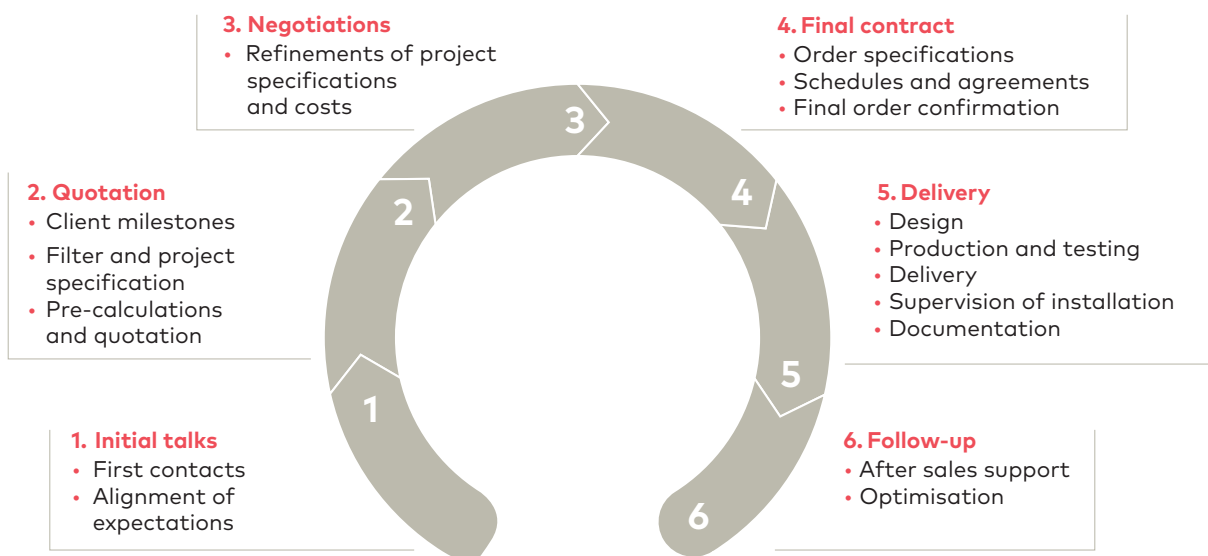
### Efficient and agile

While product performance is important, we appreciate that our customers are looking for more than an efficient solution. Meeting agreements and the ability to respond constructively to changing requirements during a build, is equally important for a successful project and partnership.

Every day, we work to be a partner to our customers – a partner with high quality products, who takes responsibility, drives the project forward, responds constructively to challenges, and contributes with knowledge and expertise to deliver the most cost-efficient solution. Our principles for collaborating with our customers secure that we obtain the necessary input at the right time in the process, to deliver to high standards.

With more than 10.500 filters under our belt, we have developed and refined our project execution model to allow us to be as lean and efficient as possible, but also to operate with agility when required by changing circumstances.

## Our project wheel



# Applications for our DCA filters

## Recycling

### Industry challenges

Recycling industrially manufactured products is a fast-growing industry and needs efficient and state-of-the-art filtration technologies.

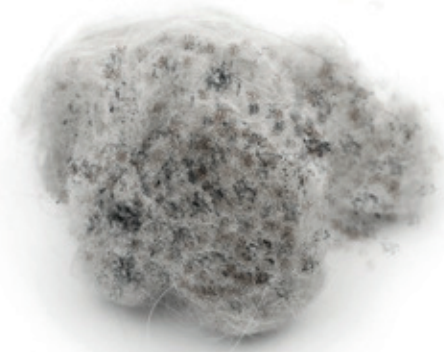
Simatek offers a range of filtration systems for a variety of applications in recycling and ensure a consistent output irrespective of the nature of the product. Our solutions help stabilise process reliability while improving the effectiveness of the recycling plants.

### Our approach

We offer robust filtration systems for the recycling industry. Our solutions are based on a flexible modular design that is tailored to suit both existing and newly established recycling plants and work very effective.

### Our customers benefit from:

- Improved processes and high productivity for different products.
- Assurance of sustained and improved final product quality.
- Improved working conditions for the operator.
- Low operating costs (reduced maintenance costs + minimum downtime).



## Biomass

### Industry challenges

Producing alternative fuels calls for an ever-increasing variety of raw material and state-of-the-art filtration technologies.

The biomass industry needs solutions that can provide continuous and uniform sorting and filtration – and are designed to be installed in ATEX zones. Simatek solutions meet these requirements; they also prevent explosive emissions and dust leakage ensuring high process safety.

### Our approach

Our filtration solutions are based on technology suited for multiple applications. This helps us offer our customers tailor-made solutions based on their specific needs.

Through our unique technology and specialised expertise, we guarantee optimal process quality.

### Our customers benefit from:

- Improved performance.
- Assurance of sustained and improved final product quality.
- Improved working conditions.
- Optimal use of resources.



## Chemical

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### Industry challenges

In the chemical industry, dust is generated due to the nature of the products being manufactured and their specific properties. This dust can be abrasive, chemically aggressive, explosive, fine or coarse.

The industry has to meet stringent regulatory and legal requirements in its production processes. Simatek's filtration solutions have been developed in keeping with these specific needs.

### Our approach

Our filtration solutions are developed keeping in the mind the complexities involved in manufacturing chemical products.

We work with our customers to offer effective solutions that are suitable for their products while offering optimal performance, process and product quality.

### Our customers benefit from:

- Improved processes and high productivity.
- Assurance of sustained and improved final product quality.
- Improved working conditions.
- Optimal use of resources.



## Pet and fish food

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### Industry challenges

Manufacturing high-quality food and food supplements for pisci-culture and pets requires an increasing variety in their composition and production processes.

Our filtration technology is suited to handle different processes. It ensures secure production areas, optimised processes and optimised product recovery while meeting the necessary quality requirements.

### Our approach

Simatek's filtration solutions are developed to meet the challenges and unique needs of the pet and fish food industry.

Based on our long-standing experience, we offer solutions with optimal results while offering customers good value for money.

### Our customers benefit from:

- Improved processes and high productivity.
- Assurance of sustained and improved final product quality.
- Improved working conditions.
- Optimal use of resources.



# Applications for our DCA filters

## Grain and feed

### Industry challenges

Grain and feed products generate a high volume of dust during production. This presents a safety hazard for employees working in the plants and the equipment used.

Simatek offers solutions that meet the industry's needs in terms of health and safety, hygiene, product quality and product recovery – irrespective of the volume of dust generated.

### Our approach

Our solutions are based on a flexible modular design with a wide range of applications.

We deliver efficiency and performance by developing customised solutions for our customers. In addition to being efficient, our solutions are environment friendly and offer customers good value for money.

### Our customers benefit from:

- Improved processes and high productivity.
- Improved working conditions.
- Optimal use of resources.
- High product recovery.



## Fertiliser

### Industry challenges

Producing and processing organic and inorganic fertilisers requires extensive safety measures – to protect equipment from destructive corrosion due to the chemical properties of such products. Simatek provides filtration solutions that are specially designed to be used for aggressive and corrosive products.

### Our approach

We develop customised solutions keeping in the mind the nature of the products manufactured in the fertiliser industry.

Filters that come in contact with the products are made of special material that can handle the chemically aggressive nature of these products. This ensures longer lifetime for both the manufacturing equipment and the filters.

### Our customers benefit from:

- Improved processes and high productivity.
- Assurance of sustained and improved final product quality.
- Improved working condition.



## Mineral resources

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### Industry challenges

Mining stones, gravel and minerals calls for high-tech filtration solutions. These solutions protect employees and equipment from the harmful effects of being exposed to these minerals. Our filtration systems are also particularly resistant to abrasive materials. They filter the dust released in the ambient air, protecting the equipment from wear and tear and giving them longer lifetime.

### Our approach

Simatek filtration systems offer a high degree of flexibility through their modular design and wide range of applications. Compact and robust, they are designed to work well in harsh conditions.

### Our customers benefit from:

- Improved processes and high productivity.
- Assurance of sustained and improved final product quality.
- Improved working conditions.



## Food

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### Industry challenges

The food industry is subject to stringent hygienic requirements. This makes state-of-the-art filtration solutions a must in their production processes. Simatek filtration systems offer the food industry optimised product recovery while helping control flammable emissions and unwanted dust deposits.

### Our approach

We design and develop customised filtration solutions for the food industry – including filters made exclusively from food-safe material. They are designed and manufactured according to EHEDG hygiene and food guidelines.

### Our customers benefit from:

- Easy and efficient cleaning that meet high hygienic standards.
- High product recovery.
- Improved processes and high productivity.
- Assurance of sustained and improved final product quality.
- Improved working conditions.



# Documentation and quality

## Comprehensive documentation that meets compliance standards and covers the entire project management process

### Documentation

With increasing legal requirements, we have experienced an increasing demand for ever more detailed documentation. At Simatek, we continuously adapt and develop our documentation to meet both official legal standards and specific customer requirements.

Documentation is an integral part of our project management process – from the initial quote to delivery and installation of the filtration system. As part of our documentation, we provide product and component descriptions, technical specifications, safety and compliance information and user guides for installation, configuration and maintenance.

We work with our customers during the initial quotation phase to understand their specific documentation needs. This is written into the final contract and the full documentation is delivered to the customer at project completion.

### CE marking

For the enduser to achieve the CE marking, our filters are delivered with an IIB declaration in accordance with machine directive 2006/42/EC. Further to this Simatek can offer the preparation of the IIA declaration of conformity for the entire Simatek delivery.

### Standards and certificates

Simatek has received several certificates endorsing our ability to meet and deliver solutions according to various compliance standards and directives. Our dust collection and aspiration filters and the accompanying equipment meet the following standards and EU directives where relevant and applicable:

#### Certificates

- TÜV VDI 2263 part 3 compliance certification mandated by TÜV NORD CERT.
- Declarations of Conformity of the EurAsEC Customs Union to Technical Requirements.
- Declaration of conformity to the Technical Regulations of Ukraine.
- Inspecta certified permission to re-stamp material used for producing pressure resistant filters.

#### Directives

- ATEX Directive 2014/34/EU.
- Machinery Directive 2006/42/EC.
- Directive 2014/68/EU Pressure Equipment Directive (PED).
- Directive 2014/29/EU for simple pressure vessels.
- Low Voltage Directive 2014/35/EU.
- EMC Directive 2014/30/EU.



# After sales services

## Ensuring high filter performance during its entire lifetime

### Service solutions

Round-the-clock global service, that keeps your operations running smoothly with minimum downtime

### Through our service and maintenance support,

- Supervision for installation and overhaul.
- Regular service inspections and preventive maintenance services.
- On-site troubleshooting.

### we offer:

- 24-hour technical service support via our hotline.
- Commissioning services.
- Support and maintenance contracts.

### Original spare parts

an assurance of quality parts that fit your Simatek solution and serve you for years

### When you choose original Simatek

- A wide range of spare parts that are always in stock.
- Products that are easy to use and of high quality.
- 24-hour technical service support via our hotline.

### spare parts, you get:

- Solutions tailored to meet Your needs.
- Detailed and easy-to-use user manuals with comprehensive spare parts documentation.

### Filter bag and filter cage technology

that delivers a perfect fit between filter bags and filter cages while offering optimal cleaning

At Simatek, we work with the best technology in all our offerings. We have long-standing experience in filter bag technology and our filter cages are designed to ensure optimal performance and easy maintenance.

We offer solutions that match your individual needs. Combined with our technical expertise, support and reliable documentation, you're assured of the best.

### Filter baghouse accessories

that ensure a high utilisation ratio on your filtration systems

As a part of the original Simatek installation package, we supply several accessories for our filter baghouse.

We stock a large number of spare parts for these accessories as well as complete units for quick replacements and larger retrofit solutions.

### Retrofit solutions

that improve performance and extend the life of your filters

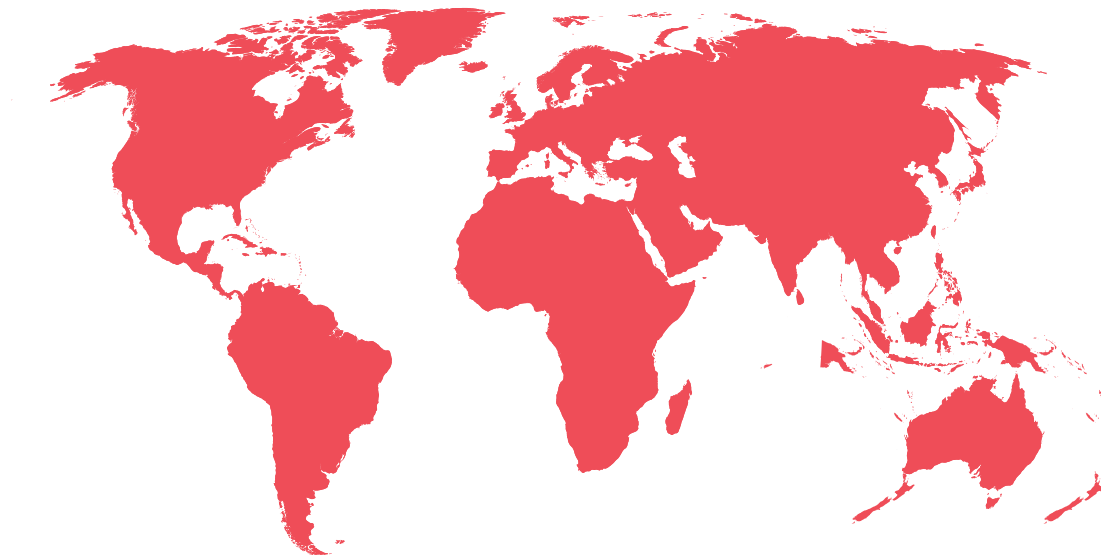
### Our retrofit solutions keep your

- Functionality.
- Efficiency.
- Capacity.
- Legal requirements to meet environmental standards.
- New standards in line with plant upgrades.

### filtration systems up to date when it comes to:

- Ensuring an ergonomic working environment.
- Legal requirements to meet Work Place Hazards standards, especially in the field of ATEX conformity.

## Simatek at a glance



**45+**

years of experience

**16.300+**

filters installed in more than 80 countries

### Air filtration specialists

With more than 16.300 Simatek filters installed around the world, we can confidently say we have the skills and expertise to deliver projects to high standards. With our dedicated team of employees we efficiently move projects from contract and design to delivery, almost anywhere in the world.

# An optimised investment. Efficiently delivered.

Founded in 1981, Simatek is a leading manufacturer of industrial air filtration solutions. Our high-tech products and systems optimise footprint, performance and maintenance for industrial plants worldwide. All at a low cost of ownership.

Our main areas of expertise:

- Dust collection and aspiration: A wide range of pulse-jet bag filters designed to work with dust explosive atmosphere and meet international standards and certifications.
- Process air: Simatek engineers and manufactures sanitary bag filters according to the requirements of the food and dairy industry – including process filters with Cleaning In Place (CIP) and super sanitary bag filters approved according to the USDA and with 3-A symbol certification.

Unique technology and specialised expertise are at the heart of everything we do at Simatek. Our core team of dedicated employees – alongside our global network of partners and representatives – are ready to help you find the solution that will benefit your business the most.

We call this an optimised investment, effectively delivered.

**SIMATEK**  
Filter Technology

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